



SETAC Europe 28th Annual Meeting

13–17 May 2018 | Rome, Italy



PROGRAMME BOOK

Responsible and Innovative Research for Environmental Quality



Prince Sultan Bin Abdulaziz
International Prize for Water

Recognizing Innovation

Invitation for Nominations

**9th Award
(2020)**

**Nominations open online
until 31 December 2019**



www.psipw.org

e-mail: info@psipw.org

WELCOME

It is our pleasure to welcome you to Rome, "caput mundi", the eternal city, where you can enjoy the emotion of living 2781 years of history. Rome is the city of squares, fountains, churches and romantic ancient bridges on the River Tiber. It is the city where you can find ruins going back to its foundation by Romulus. But in Rome, just sixty years ago, the foundations were also laid for the Europe that we know today, ushering in the longest period of peace in written history in Europe. The Treaties of Rome have established a common market where people, goods, services and capital can move freely, and created the conditions for the prosperity and stability of European citizens.

We have done our best to make this an unforgettable meeting as regards both its scientific and social programmes. The scientific programme features about 2,546 presentations over 88 sessions, with 572 platform presentations and 1,974 poster presentations including special sessions with invited talks. In order to accommodate the exceptional need for oral presentations, the Scientific Committee increased the number of platforms from 5 to 6 in each session time block, making possible a higher number of oral presenters than at other SETAC Europe annual meetings.

Overall, the sessions will embrace the "Responsible and Innovative Research for Environmental Quality" theme of the Rome meeting. Responsible research and innovation is an interactive and transparent process with which scientists and social actors work together on ethical and sustainability aspects in order to ensure a correct implementation of scientific progress in our society. The safeguarding of the environment is an ethical duty for every citizen, and in particular for environmental scientists. In our society, the latter have a huge responsibility to develop, communicate and implement knowledge, methods and tools regarding the management of the toxicological and ecotoxicological effects of chemicals, in order to reduce their risks and regulate their use.

Rome is in the Mediterranean, where some environmental topics are of particular concern and require attention. For example, the Mediterranean Sea is one of the areas most affected by marine litter in the world and for this reason a special session will deal with the harmful effects of plastic litter and the mitigation strategies to be used. In addition, 2018 is the European Year of Cultural Heritage in the context of which the contribution of chemistry and material science to knowledge, monitoring and conservation from pollution and aggressive environmental conditions is highly important. A special session will give an overview of the main problems and innovative research into the safeguarding and conservation of cultural heritage.

A special session will be dedicated to giving a clear picture of the general context of Sustainable Development Goals with high-level speakers from the United Nations, EU Commission, research planners and enterprises, with the goal of helping each participant to better understand how their personal work can contribute to overarching sustainable development goals. Other sessions will address some of these goals, e.g. one of emerging pollutants and mixture risk evaluation in European freshwater, and the other one on environmental specimen banks in research and regulation for a better environmental quality. Moreover, a special session will be dedicated to showing how, through good science, constructive discussion and open communication, scientific and regulatory progress, shared by all stakeholders, can promote environmental sustainability. Finally, impressive keynote speakers will highlight different aspects of the meeting theme.

The venue of the Annual Meeting is the "Nuvola", the new Rome Convention Centre designed by the Architect Fuksas. It is a work of extraordinary artistic value, which represents a cloud suspended in the sky, consisting of a huge white sheet made of glass fibre inside a steel and glass theca.

The organisation of the meeting would not have been possible without the precious support of the Brussels office, an enthusiastic and professional team, the Scientific and Local Organising Committees, both composed of devoted volunteers, the 12 sponsors and 56 exhibitors, and the Tourism Department of Rome municipality.

On behalf of the Scientific and Local Organising Committees, we warmly welcome you to the SETAC Europe 28th Annual Meeting.



WIFI

Network: **SETAC**

Login: **setac2018**

Contents

Welcome

04	Meeting Supporters
04	Programme Committee
05	About SETAC
07	Interest Groups
08	SETAC Europe Partners
09	Award Winners
10	SETAC Global Partners
13	Practical Information
15	Daily Overview
16	Session Overview
21	Student Activities

Daily Schedule

22	Sunday
25	Monday
47	Tuesday
69	Wednesday
91	Thursday
105	SETAC Square
106	Exhibition Hall
107	Exhibitors
124	Author Index
151	Policies
152	Notes
157	Floor Plan

Anna Barra
Caracciolo
Chair

Paola Grenni
Co-chair

Paolo Masoni
Co-chair

José Julio
Ortega-Calvo
Co-chair

WELCOME FROM SETAC EUROPE

Welcome to Rome!

Rome, this is 28 centuries of history welcoming our 28th Europe Annual Meeting: It had to be this year...

It is an honour to be hosted by Rome, La Citta Eterna, this year. Twenty-eight centuries of history indeed, a university life since the early 14th century with Sapienza, the proud home to hundreds of thousands of students. We had to get it right, and our meeting chair Anna Barra Caracciolo and co-chairs Paolo Masoni, José Julio Ortega-Calvo and Paola Grenni together with the Local Organising and Scientific Committees, and the SETAC staff worked their hardest to deliver an outstanding scientific and social programme.

First, this year's theme: "Responsible and Innovative Research for Environmental Quality" is ambitious and embraces the most fundamental scientific findings and applied research while meeting 21st century goals of responsibility and sustainability in innovation. The theme is reflected into 7 scientific tracks, which attracted no less than 120 session proposals and 2,546 abstracts at closure of submission. This shows more than ever the dynamism of environmental research and the willingness to give science a meaning. All in relation to environmental protection approaches, policies and innovative developments.

Beside the sessions, this year's programme offers eight training courses organised by volunteers. Four of these training courses now count toward the Certification of Environmental Risk Assessors (CRA) programme and will provide credits to our CRA participants. This achievement has been possible thanks to the continuous efforts of the Certification Programme Committee, who has identified the best education programmes and facilitated its accessibility to trainees. This meeting will also host, for the first time, the CRA multiple-choice examination. The exam serves as proof that the trainee has acquired the knowledge and competences on the nine CRA topics, and is ready for the final oral CRA exam required to become a certified environmental risk assessor. You will have a chance to meet our committed and motivated trainees and the CRA

committee members over the week and learn more about our esteemed certification programme.

This year's meeting programme also offers Interest Group (IG)-sponsored events: The SETAC Europe Interest Group Symposium on Science and Risk Communication (SCIRIC) and the Pharmaceuticals IG Symposium. These events are organised on Sunday and aim at opening the forum for debate and exchange on research themes that are at the crossroads with regulatory needs, but also with the flow of information feeding back to larger audience, to facilitate their understanding, and their acceptance of science. Now more than ever, SETAC Europe is on a mission to promote and facilitate collaboration, communication and education, and will continue to offer new opportunities to meet, debate, initiate partnerships and learn. The annual meeting programme is rich with opportunities to join these groups and forums, which are open and waiting for you!

As always annual meetings are a team effort and we warmly thank the Local Organising Committee, the Scientific Committee and, the SETAC Europe team: Barbara Koelman, Delphine Delire, Filip Gunst, Roel Evens, Rebecca Bundschuh and Veerle Vandeviere who did their magic for this meeting to simply happen (they do deserve your smiles as you meet them in Rome or in Brussels); our students, who will be welcoming you and helping you for a smooth meeting; and the SETAC Europe and Global Partners and Affiliates, the meeting sponsors and the exhibitors at the meeting. Extended thanks to each of you! We hope that this meeting matches your expectations and make you feel part of the SETAC community. Bart and I can't wait to meet you all. Have a great week!



Anne Alix
SETAC Europe President



Bart Bosveld
SETAC Europe Executive Director

WELCOME FROM SETAC GLOBAL

Dear SETAC members and guests,

Benvenuti a voi tutti!

Thank you for participating in an extremely timely annual meeting in Rome for SETAC Europe. The theme – Responsible and Innovative Research for Environmental Quality– speaks to our recognition of the importance of integrity, reliability, and credibility in science. This is one of SETAC's highest priorities and one we aspire to attain by following our tripartite – academia, government, and business – approach to all SETAC governance, workshops, and meeting programming. We commend the programme committee for the SETAC Rome meeting for what promises to be an exciting and stimulating platform for discourse on important research and environmental issues. The sessions reflect the integrative nature of SETAC science as for example, "Ecotoxicology and Human Toxicology: From Molecules to Organisms From Omics to In Vivo" as well as the impact SETAC Science can have across broader society through sessions like "Indigeneity and Science: A Collaborative Work in Progress" and "Thinking Green and Circularly About Microparticles, Nanomaterials and Composite Materials: Approaches For Recovery, Recycling and Reuse".

SETAC is a unique scientific society in that we are global with more than 5,200 members in all parts of the world. Rome will be attracting many of these members and other individuals aligned with SETAC. We encourage you to reach out to colleagues to share your insights and to engage in exchanges of knowledge. The diversity of programmes and events offered at the Rome meeting contributes greatly to SETAC's priorities of advancing and communicating science, developing the next generation of scientists and

environmental engineers, and supporting these individuals throughout their careers. Along those lines, your engagement is also encouraged with respect to SETAC's mentorship programme. Whether you are a student, young scientist, or long-term SETAC member, you should take advantage of this programme as either a mentee or mentor. A meeting will kick this off the mentorship activities on Sunday at 5 p.m. and the student mentor lunch will occur on Monday. If you are new to SETAC, you should take advantage of one or more side meetings involving interest groups or committees. Your engagement in one or more of these will deepen your experience with the sciences, provide connection with other scientists working in your particular area of interest, and with the SETAC community more broadly.

We congratulate the SETAC Europe Council and staff and the numerous SETAC volunteers for putting together an inspirational and fun meeting. We will be joining you in Rome. Please reach out and introduce yourself so we can chat a little while. We wish you the best and trust you will have a terrific experience at the SETAC Europe Rome meeting.

Sincerely,



Ross Smith
SETAC President



Charles Menzie
SETAC Global Executive Director

SETAC Europe Staff

Bart Bosveld, *Executive Director*
Barbara Koelman, *Office & Meeting Manager*
Delphine Delire, *Communications Manager*
Filip Gunst, *Financial Administration*
Rebecca Bundschuh, *Education Project Manager*
Roel Evens, *Scientific Project Manager*
Veerle Vandeveire, *Finances & Registration Manager*

And a "special thank you" to our SETAC North America colleagues for their constant support:

Dusty Kennedy, Greg Schiefer, Jason Andersen, Jen Lynch, Laura Swanson, Linda Fenner, Nikki Mayo, Sabine Barrett, Tamar Schlekot, Teresa Murdoch



THANK YOU

To our meeting supporters for their generous contributions!



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Gold



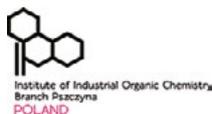
Agilent



Silver



Bronze



Programme Committee

Chairs

Anna Barra Caracciolo, *CNR-IRSA, Italy*
Paola Grenni, *CNR-IRSA, Italy*
Paolo Masoni, *Ecoinnovazione srl, Italy*
José Julio Ortega-Calvo, *Spanish National Research Council, Spain*

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Antonio Finizio, *Bicocca University, Italy*
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Thomas-Benjamin Seiler, *RWTH Aachen University, Germany*

ABOUT SETAC AND SETAC EUROPE

SETAC is a not-for-profit, worldwide professional organisation comprised of more than 5,200 individuals and institutions in 100 countries dedicated to the study, analysis and solution of environmental problems, the management and regulation of natural resources, research and development, and environmental education.

Our mission is to support the development of principles and practices for protection, enhancement and management of sustainable environmental quality and ecosystem integrity.

SETAC Europe is one of five Geographic Units (GU) of the global Society, established to promote and further the mission of SETAC in Europe, the Middle East and Russia.

SETAC Europe is incorporated in Belgium as a not-for-profit organisation. The Society is administered to its articles of association and by-laws.

For more information, visit www.setac.org

SETAC Europe is governed by a Council, elected by the general membership at the Annual General Assembly (AGA) which convenes every year during the SETAC Europe Annual Meeting.

If you are a SETAC member from Europe, you are strongly encouraged to attend the assembly which will be held from

12:25 p.m.–1:55 p.m. on Wednesday, 16 May in the Workshop Room.

SETAC Europe Committees

The affairs of SETAC Europe are partly managed by Committees composed of volunteers.

If you are interested to contribute to the activities of SETAC Europe and willing to volunteer in one of its below committees, have a look at the open vacancies at www.setac.org (go to “Get Involved”).

- Awards
- Certification Programme Committee
- Development
- Education
- Finance
- Long-Range Planning
- Membership and Public Relations
- Nominations
- Regional Branches
- Science
- Student Advisory Council (SAC)



JOIN SETAC TODAY!

SETAC's impressive scientific programme has formidable global reach and attracts members from approximately 100 countries. The five geographic units in Africa, Asia-Pacific, Europe, Latin America and North America, together with regional branches and chapters, offer cutting edge scientific programming anchored by well-attended meetings.

Not a SETAC member yet? Don't wait any longer!

SETAC membership helps you succeed with:

	Online access to every issue of SETAC's highly cited, peer-reviewed journals, <i>Environmental Toxicology and Chemistry</i> (ET&C) and <i>Integrated Environmental Assessment and Management</i> (IEAM)		Discounts for SETAC meetings worldwide, such as annual meetings, Special Science Symposia, Focused Topic Meetings, LCA symposia and more
	Global networking opportunities with access to the online membership portal, mentorship programmes and more		SETAC News messages to members & online subscription to the SETAC Globe, a monthly newsletter bringing international research, workshop & meeting recaps, collaborative opportunities & policy changes straight to your inbox
	Free access to the SETAC Career Center for job seekers and employers		An ever-growing education programme with training courses and certification programme
	Outreach opportunities through SETAC Interest Groups, service projects and volunteer positions		Reduced prices on the Society's publications, including books, webinars and online courses
	For Student Members Join this energetic group and take advantage of mentoring, career and leadership opportunities, networking and learning events geared towards students, and more. Support in the form of travel, presentation and publication awards are available.		

JOIN

Go to www.setac.org

SETAC Europe Mentorship Programme

Are you looking for some help to find your way at the meeting? Want to be introduced to new colleagues? Or just want to chat with someone during lunchtime? The SETAC Europe Mentorship Programme makes a match between a newbie (mentee) and a mentor. The match has been made on the basis of your professional interest area and other preferences.

We gather in a relaxed atmosphere on Sunday, 13 May at 5:00 p.m. in Meeting Room 11.



GET CONNECTED WITH SETAC INTEREST GROUPS!

Interest Groups (IGs) are recognised internally within SETAC as well as outside the Society as the incubators of specific technical subject matters. They nurture and grow a technical subject matter by being a repository of expertise in the specified area, and provide opportunities to collaborate on specific topics such as scientific sessions, workshops and Technical Issue Papers. IGs also develop leadership skills and provide mentorship to early career members interested in learning more about the subject. Hence, irrespective of your background and stage of career, IGs are a great platform to develop your skills and to expand your network in a very exciting research field.

More info at www.setac.org > [Get Involved](#) > [Interest Groups](#)

or contact Roel Evens, SETAC Europe Scientific Project Manager at roel.evens@setac.org or Tamar Schlekat, SETAC Scientific Affairs Manager at tamar.schlekat@setac.org.

IG

Several Interest Groups will meet and/or present posters in the coming days. Feel free to join and share your ideas!

Interest Group	Open Meeting	Location	Poster
Animal Alternatives in Environmental Science	Tuesday, 4:00 p.m.–6:00 p.m.	Meeting Room 7	MO197
Bioaccumulation Science	Monday, 5:00 p.m.–6:00 p.m.	Session Room O	TH045
Dung Organism Toxicity Testing	Monday, 5:30 p.m.–7:00 p.m.	Meeting Room 1	MO386
Ecosystem Services	Tuesday, 12:00 p.m.–1:30 p.m.	Meeting Room 1 (jointly with Sustainability IG)	TU386
Effect Modelling	Tuesday 4:00 p.m.–5:00 p.m.	Session Room M	TU213
Endocrine Disruptor Testing and Risk Assessment	Tuesday, 4:30 p.m.–6:00 p.m.	Meeting Room 8	TH079
Exposure Modelling	Wednesday, 4:00 p.m.–5:00 p.m.	Meeting Room 10	-
Freshwater Salinisation	Tuesday, 12:25 p.m.–1:55 p.m.	Meeting Room 7	-
Human Health Risk Assessment	-	-	TU419
Indigenous Knowledge and Values	Thursday, 11:00 a.m.–12:00 p.m.	Meeting Room 7	-
Life-Cycle Assessment – Europe	IG steering committee meeting, Tuesday, 5:30 p.m.–6:30 p.m.	Meeting Room 6	WE237
Metals	Monday, 5:30 p.m.–7:00 p.m.	Session Room M	-
Nanotechnology	Monday, 5:30 p.m.–7:00 p.m.	Meeting Room 6	MO425
OMICs	Wednesday, 4:00 p.m.–6:00 p.m.	Meeting Room 6	WE294
Pharmaceuticals	<ul style="list-style-type: none"> Symposium, Sunday 1:00 p.m.–5:30 p.m. IG steering committee meeting, Tuesday 5:00 p.m.–6:30 p.m. 	Session Room O Session Room O	WE025
Plants	Wednesday, 4:00 p.m.–5:30 p.m.	Meeting Room 9	WE177
Science and Risk Communication (SCIRIC)	<ul style="list-style-type: none"> Symposium, Sunday 12:50 p.m.–5:30 p.m. IG annual meeting, Monday 9:00 a.m.–10:00 a.m. 	Meeting Room 10 Meeting Room 1	WEPC16
Sediment	Tuesday, 8:00 a.m.–9:00 a.m.	Meeting Room 7	WE197
Soils	Tuesday, 5:30 p.m.–7:00 p.m.	Session Room N	TH157
Sustainability	Tuesday, 12:00 p.m.–1:30 p.m.	Meeting Room 1 (jointly with Ecosystem services IG)	WE236
Wildlife Toxicology	Wednesday, 6:00 p.m.–7:00 p.m.	Session Room O	MO089

SETAC EUROPE PARTNERS

SETAC Europe Partners are non-profit and for-profit organisations, institutions, government agencies, or associations concerned with the affairs and purpose of the Society and who wish to foster the Society's purposes.



SETAC EUROPE AWARD WINNERS

Noack Laboratorien Environmental Education Award



Marco Vighi

IMDEA Water Institute, Spain
The Noack Laboratorien Environmental Education Award honours an outstanding record of interdisciplinary activities in the dissemination of knowledge on environmental sciences.

EDANA Lifetime Achievement Award for LCA



Michael Hauschild

Technical University of Denmark, Denmark
Awarded biannually, the SETAC Europe EDANA Award for Lifetime Achievement in Life Cycle Assessment recognises outstanding contributions in promoting life cycle thinking and improving LCA approaches.

Rifcon Best Publication Award



Mélanie Douziech

Radboud University Nijmegen, Netherlands
and I. Conesa, A. Benítez-López, A. Franco, M. Huijbregts and R. van Zelm
Quantifying variability in removal efficiencies of chemicals in activated sludge wastewater treatment plants – A meta-analytical approach
Environmental Science: Processes & Impacts, Volume 20

LCA Young Scientist Award



Rickard Arvidsson

Chalmers University of Technology, Sweden
LCA for assessing emerging technologies – Prospective LCA
The SETAC Europe Young Scientist LCA Award recognises exceptional achievements by a young scientist in the field of Life Cycle Assessment.
Sponsored by LENZING AG and Springer Nature

Photo: Ulrika Ernström, Chalmers

Young Scientist Awards 2017

Honouring a young scientist for the best platform and best poster presentation at the SETAC Europe 27th Annual Meeting in Brussels, Belgium.

ECETOC Best Platform



Richard Cross

College of Life and Environmental Sciences, UK
has been granted for his platform presentation "Routes of uptake and bioaccumulation of cerium oxide and silver nanoparticles depend on their fate in sediments".

SETAC Europe Best Poster



Amandine Laffite

University of Geneva, Switzerland
received the award for her poster on "Hospital effluents, not an exclusive source of emerging contaminant spread in sub-saharian urban rivers".



Grants for SETAC Members

Jointly sponsored by SETAC Europe and Syngenta, we awarded 33 registration grants, 21 travel grants, and 18 training course grants and supported 38 students to come to the SETAC Europe 28th Annual Meeting.

THANK YOU!

To our award and grant sponsors!

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SETAC GLOBAL PARTNERS AND AFFILIATES

Thank you to the SETAC Global Partners and Affiliates for helping ensure our goal of Environmental Quality Through Science®.



SETAC GLOBAL AWARD WINNERS

Founders Award



Harold Bergman

University of Wyoming, USA

The prestigious Founders Award is the highest honour SETAC can bestow. It is given annually to an individual whose outstanding career and significant contributions to environmental science reflect the goals of SETAC.

Capacity-Building Award



Keith Solomon

University of Guelph, Canada

The Global Partners Capacity-Building Award recognises individuals or groups for their contribution toward building capacity in the environmental sciences within countries with developing economies.

Herb Ward Exceptional Service Award



Diane Nacci

Environmental Protection Agency, USA

Renamed in 1999 to honour ET&C's founding Editor-in-Chief C. Herb Ward for his important contributions to the founding and development of SETAC, this award recognises a SETAC member who has performed long-term exceptionally high-quality service to the Society.

SETAC / ICA Chris Lee Award



Maikel Rosabal

Université du Québec à Montréal, Canada

Jointly sponsored by SETAC and the International Copper Association, this award provides up to \$5,000 to a graduate student or recent graduate whose ongoing research focuses on fate and effects of metals in the environment.

ET&C Best Paper Award



Douglas Sponsler

Penn State University, USA
and R Johnson

Mechanistic modeling of pesticide exposure: The missing keystone of honey bee toxicology
Volume 36:4, 2017

IEAM Best Paper Award



Wayne Landis

Western Washington University, USA
A Markiewicz, K Ayre, A Johns, M Harris, J Stinson, and H Summers

A general risk-based adaptive management scheme incorporating the Bayesian network relative risk model with the South River, Virginia as case study.
Volume 13:1, 2017

SETAC / Procter & Gamble Fellowship



Julie Kryzkwa

Texas Christian University, USA

This \$15,000, 1-year grant, sponsored by Procter & Gamble, is bestowed annually and rotates among the five SETAC geographic units. The Fellowship recognises a student enrolled in a doctoral programme at a North American university.

*Congratulations
to all award winners!*

ABOUT ROME

We welcome you to Rome, capital of Italy with 3 million inhabitants. Rome "caput mundi", the eternal city where you can enjoy the emotion of living 2781 years of history.

Rome is the city of squares, fountains, churches and romantic ancient bridges on the River Tiber. It is the city where you can find ruins going back to its foundation (764 B.C.) by Romulus. The Rome that Julius Caesar ruled, where ancient gladiators fought, where the Roman temples and columns got transformed into churches. There is also the Rome from the Renaissance to the Barocco where the most important artists of that time came to renew the city creatively.

Visit the Colosseum and "Saint Peter's Basilica", which represent the city as the capital of the Roman Empire and Christianity, and "Vittoriano" or "Altare della Patria", respectively, symbolising Rome as the capital of Italy. Enjoy a multitude of Roman archaeological sites where you can see Roman houses (domus and insula), palaces, fora (Augusto, Cesare, Traiano, Minerva, etc.) and baths (Diocleziano, Caracalla).



Picutres: Andrea Cenni



Rome boasts 2,000 fountains, 11 Roman aqueducts, 13 Egyptian obelisks, one pyramid, 900 churches, 20 bridges and 12 Villas with landscaped parks. You can find several unique archaeological sites inside and outside (e.g. Villa Adriana, Ostia Antica, Villa dei Quintili, the Catacombs) the city which can be reached by walking or riding along an imperial road like the Via Appia. You can choose from among the tens of Rome museums and the many churches or squares where you can find masterpieces from some of the artists most famous worldwide like Raphael, Michelangelo, Leonardo da Vinci, Caravaggio, Bernini, Borromini, Canova and many others.

Enjoy wonderful sunsets from one of the hills of Rome (Pincio, Aventine, Gianicolo), sunny squares and cobblestone streets, nightlife, delicious wine and local food with cheese, Roman pasta and pizza specialities. Rome is a bustling, vibrant metropolis that effortlessly pairs history with contemporary style.

Catering: Focus on Food Allergies and Sustainable Efforts

SETAC Rome is contributing to a responsible meeting with a priority on environmental quality.

Lunches and coffee breaks will be served with plastic-free tableware. The meeting will also offer a variety of food satisfying different needs: A special gluten-free corner, lactose-free food and vegetarian food. Their respective labels will be added in the menus.

In order to reduce food waste, the surplus of the catering will be donated to local charity organisations.

Special trash bins will be allocated for different types of waste.

Icon: Vectortwins - Freepik.com

PRACTICAL INFORMATION

Badges

The badges must be worn to gain entrance to all sessions, meetings, and the exhibition during the conference. For the replacement of a lost badge a charge of 5€ applies.

Cloakroom

The cloakroom is free of charge and located in the registration area. SETAC is not responsible for any loss.

Opening Hours

Sunday 7:30 a.m.–9:30 p.m.

Thursday 7:30 a.m.–3:00 p.m.

Drinking Water

Water will be provided in coolers.

Emergencies / First Aid

If you have a medical problem you can come to the registration desk. The general emergency number is: 112.

Evaluation

After the conference we will invite you to a survey via email. We are very interested in your feedback and will use it to make future conferences even better.

Food Allergies

Food that is served will be labelled by the catering company. There will be special buffets for people with allergies.

Letters of Participation

Letters of participation will be provided to those who are registered for the meeting and will be sent to you after the meeting via email. If you are a presenter, you will receive a confirmation as well.

Lost and Found

Please come to the registration desk for inquiries concerning lost and found items.

Public Transportation

It is very easy to travel through the city by public transport. The nearest metro station next to the conference centre is EUR Fermi – La Nuvola, Roma Convention Center (metro line B – direction Laurentina).

Registration Desk

The registration desk is located right after the entrance. Our staff as well as the volunteers are happy to help if you have any queries.

Opening Hours

Sunday 7:30 a.m.–8:00 p.m.

Monday – Wednesday 7:30 a.m.–6:30 p.m.

Thursday 7:30 a.m.–2:00 p.m.

Special Needs

If you have a disability or limitation that may require special consideration in order to ensure your full participation in this meeting, please see a staff person at the registration desk.

Taxi Service

Taxis (white vehicles) are easy to find. If the light is green, they are free. Useful taxi numbers: +39 06-5551 (Samarconda Line), +39 06-3570 (Soc. Coop Line), +39 06-6645 (Pronto Taxi Line), +39 06-4994 (La Capitale Line), +39 06 6645 (Prontotaxi).

Please keep in mind, during rush hours the public transportation is usually faster.

Tourist Information

An agent from the tourist office is available in the registration area to answer your questions about Rome.

Sunday 4:00 p.m.–7:00 p.m.

Monday – Thursday 9:00 a.m.–6:00 p.m.

Venue Contact

Rome Convention Centre La Nuvola

Viale Asia – 00144 Rome

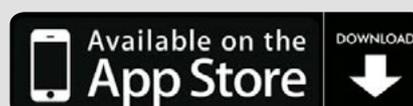
www.romaconventiongroup.it

Our Meeting App

Available now in the Google Play, and in the iTunes app stores.

Take advantage of the app's many features including:

- View all session information including full abstracts
- Comment on sessions and presentations and add your personal notes
- Engage with other delegates through the interactive forum
- Stay tuned with the latest meeting news
- Sync with online itinerary planner and add items to the calendar on your device
- Share an abstract through social media or a colleague
- View the satellite meetings and the social activities
- Know more about our sponsors and exhibitors



PRACTICAL INFORMATION

Information for Oral Presenters

Talks are scheduled in 15-minute time slots (including discussion). Please keep your presentation limited to 12 minutes maximum, to allow ample time for questions from the audience. The schedule will be strictly enforced to facilitate movement between sessions.

We advise you to:

- Locate your session room in time.
- Have your presentation uploaded in advance.
- Bring your presentation on a memory stick, as a backup.
- Be in the session room no later than 20 minutes prior to the session and introduce yourself to the session chair(s).
- Stay on schedule!

Presentation Upload and Review

If you are a platform or poster spotlight presenter, you can upload your PowerPoint or Pdf presentation online via <https://meetings.setac.org>, or onsite at the presentation upload and review desk in the registration area. Our staff and volunteers will be happy to help you out.

Be sure to upload your presentation by 4:00 p.m. the day before your session is scheduled.

New for 2018

Poster presenters can upload a PDF of their poster and allow meeting attendees to view the poster during and up to 6 months after the meeting. Have a look at

<https://meetings.setac.org> > SETAC Europe 28th Annual Meeting > Upload Poster Image File



Abstract Book
Download your copy of the SETAC Rome abstract book at rome.setac.org

Information for Poster Presenters

Poster Display

Each Poster has been assigned a specific code. The two letters represent the day your poster will be displayed, the number is the number of the poster board, e.g. MO123 = Monday, board 123. Posters will be displayed in the exhibition hall. See page 106 for a map of poster boards.

Poster Setup and Take Down

Presenters are responsible for setup and take down. Posters for the respective day can be put up from 7:30 a.m. to 8:30 a.m. They should be removed by 6:45 p.m. (Mo, Tues, Wed) and 3:15 p.m. Thursday at the very latest or they will be discarded. Please remove any remaining tape and keep the board clean for the next presenter.

Poster Viewing and Attendance

There are four designated poster viewings per day (see table below). Poster presenters are encouraged to be available to present their posters during these times in order to ensure maximum exposure for their research.

Poster Corner Presentations

The Poster Corners are located in the exhibition hall and scheduled during the poster social (5:15 p.m.–6:15 p.m.). During the poster session, a group discussion will be organised with an introduction by the session chair in front of the posters. After this introduction, the posters will be discussed among the authors and the audience in the Poster Corner.

Poster Spotlight Presentations

The Poster Spotlights will take place at the end of a platform session and consist of a 4-minute platform presentation, highlighting the major findings of the work.

If you have a Poster Spotlight Presentation (maximum 3 slides), have your presentation uploaded in advance (see Presentation Upload). As a backup, bring your presentation on a memory stick to the session room. Please stay on schedule and respect the 4-minute presentation time.

Late Poster Presentations

Late breaking science poster abstracts (Session 'Extended Submission') are not mentioned in the hard copy programme. Please check the online programme.

Poster Viewing and Attendance

	Monday – Wednesday	Thursday
Setup	7:30 a.m.–8:30 a.m.	7:30 a.m.–8:30 a.m.
Morning Coffee Break & Poster Viewing	10:05 a.m.–10:50 a.m.	10:05 a.m.–10:50 a.m.
Lunch Break & Poster Viewing	12:25 p.m.–1:55 p.m.	12:25 p.m.–1:55 p.m.
Afternoon Coffee Break & Poster Viewing	3:30 p.m.–4:15 p.m.	
Poster Social & Poster Viewing	5:15 p.m.–6:15 p.m.	
Take Down	6:15 p.m.–6:45 p.m.	2:45 p.m.–3:15 p.m.

SUNDAY 13 MAY

MONDAY 14 MAY

TUESDAY 15 MAY

WEDNESDAY 16 MAY

THURSDAY 17 MAY

7:30 a.m.–8:00 p.m.	Registration
8:00 a.m.–5:00 p.m.	Training Courses and Interest Group Symposia
5:00 p.m. Meeting Room 11	Mentorship Programme Gathering
6:00 p.m. Auditorium	Opening Ceremony Keynote Award Ceremony
7:30 p.m.–9:30 p.m. Exhibition Hall	Welcome Reception Exhibition Opening

7:30 a.m.–6:30 p.m.	Registration
8:30 a.m.	Platform Session
	Coffee & Poster Viewing
10:50 a.m.	Platform Session
12:25 p.m.	Lunch & Poster Viewing
1:55 p.m.	Platform Session
2:00 p.m.–6:00 p.m. SETAC Square	Reddit AMA
	Coffee & Poster
4:15 p.m. Session Room A+B	Keynote
5:15 p.m. Exhibition Hall	Poster Social

7:30 a.m.–6:30 p.m.	Registration
8:30 a.m.	Platform Session
	Coffee & Poster Viewing
10:50 a.m.	Platform Session
12:00 p.m.–2:30 p.m.	Fun Run
12:25 p.m.–1:55 p.m.	Student Lunch Seminar
1:55 p.m.	Platform Session
	Coffee & Poster Viewing
4:15 p.m. Session Room A+B	Keynote
5:15 p.m. Exhibition Hall	Poster Social
9:00 p.m.–3:00 a.m.	Student Party

7:30 a.m.–6:30 p.m.	Registration
8:00 a.m.–11:15 a.m. Meeting Room 11	Job Event
8:30 a.m.	Platform Session
	Coffee & Poster
10:50 a.m.	Platform Session
12:25 p.m.	Lunch & Poster Viewing
1:55 p.m.	Platform Session
2:30 p.m.–3:30 p.m. Workshop Room	Students Assembly
	Coffee & Poster Viewing
4:15 p.m. Session Room A+B	Keynote
5:15 p.m. Exhibition Hall	Poster Social
6:00 p.m.–10:30 p.m.	Social Dinner with Ancient Rome Guided Tour

7:30 a.m.–2:00 p.m.	Registration
8:30 a.m.	Platform Session
	Coffee & Poster Viewing
10:50 a.m.	Platform Session
12:25 p.m. Exhibition Hall	Farewell Reception Young Scientist Awards Poster Viewing

DAILY SCHEDULE

PLATFORM SESSIONS

Monday 14 May			Tuesday 15 May			Wednesday 16 May			Thursday 17 May	
Session Room A	Session Room B	Session Room C	Session Room D	Session Room E	Session Room M	Session Room N	Session Room O	Session Room P	Session Room Q	
8:30 a.m.-10:05 a.m. AM1	10:50 a.m.-12:25 p.m. AM2	1:55 p.m.-3:30 p.m. PM	8:30 a.m.-10:05 a.m. AM1	10:50 a.m.-12:25 p.m. AM2	1:55 p.m.-3:30 p.m. PM	8:30 a.m.-10:05 a.m. AM1	10:50 a.m.-12:25 p.m. AM2	1:55 p.m.-3:30 p.m. PM	8:30 a.m.-10:05 a.m. AM1	10:50 a.m.-12:25 p.m. AM2
3.16 - Pesticides Fate & Exposure	3.11 - Hydrophobic Chemicals	5.05 - Uncertainty in Translating LCA Results	3.07 - Emerging Contam: Analytical Challenges	2.09 - Wildlife Ecotoxicology	4.12 - ERA of Biocides & Vet Med	3.18 - Nano-Materials Fate & Toxicity	3.01 - Effects & ERA of Oil Spills	1.06 - Fish Model Species	8.04 - Safeguard Cultural Heritage 	8.06 - Sustainable Development Goals 
3.14 - Mercury	3.05 - Bioavailability Organic Chemicals	5.07 - LCIA Method Developments	5.01 - Inventories of Emissions & Resources for Env. Footprints	4.13 - Mechanistic Effect Modelling for ERA	4.05 - ERA in Time and Space	3.09 - Micro & Nanoplastics Detection	1.02 - Animal Alternatives	8.03 - Migratory Bird Species at Risk 	3.14 - Mercury	6.01 - Specific Protection Goals for PPPs
6.01 - Specific Protection Goals for PPPs	3.13 - Microbial Activity for In Situ Remediation	5.08 - Life Cycle Inventory Data Collection & Model	2.03 - Behavioural Toxicology	7.02 - From Trends in Wildlife Populations to Improved Regulation	4.15 - Bioavail, Effects & ERA of Metals	3.15 - Microplastics Fate & Monitoring	3.03 - Air Pollution & Human Health	1.12 - Invertebrate Model Species	8.05 - Solutions for Emerging Pollutants 	6.02 - Environmental Quality Benchmarks
7.01 - Anthropogenic vs Natural Sources of Contamination	3.17 - Biodegradation Assessment	5.04 - Sustainable Circular Economy	6.04 - Informed Substit of Hazardous Chemicals	2.01 - Big Data Analysis	3.19 - Exposure to Chemical in Urban Systems	2.08 - From Ecotox to Trophic Ecology	1.08 - Integrate Experimental Tox & Mechan Modelling	6.02 - Environmental Quality Benchmarks	2.02 - Multiple Stressors	4.11 - Improve Quality of Ecotox Tests & ERA
2.02 - Microbial Community Ecotox	6.05 - PBT/vPvB Assessment	5.09 - Positive Life Cycle & Sustainability Assessment	3.02 - Remedy Effectiveness in Soils & Sediments	3.04 - Emerging Contaminants under Water Scarcity	4.14 - Testing & ERA of Pharmaceuticals & Metabolites	2.05 - Plants	1.13 - OMICS	8.02 - Plastics in the Mediterranean Sea 	5.06 - LCA to Improve Decision Support	4.09 - ERA of Sediments
4.08 - Chemical Mixtures	4.02 - Soil Ecotox & ERA	5.02 Social LCA in Industry & Policy	6.03 - ERA & Management of Soil Material	4.16 - Wastewater	4.03 - Antibiotics Fate, Resistance & Effects	1.05 - Nanoparticles Interactions	1.09 - Luminescent Biomonitoring	8.07 - Balance the Inevitability & Hazard of Chemicals in Society 	4.06 - Exposure & Risk Assessment with Bioassays	3.10 - Fluorinated Compounds
4.07 - Natural Toxins & Harmful Algal Blooms	1.10 - Endocrine Disruptors	6.06 - ERA of Nanomaterials	3.06 - Incident Nanoplastics	3.12 - Environmental Exposure Assessment	3.10 - Fluorinated Compounds	6.06 - ERA of Nanomaterials	4.07 - Natural Toxins & Harmful Algal Blooms	8.01 - Environmental Specimen Banks 	5.03 - Emerging Technologies & Raw Materials	7.03 - Indigenity & Science
1.01 - Adverse Outcome Pathways	1.03 - Bio-transformation & Elimination Rate 	1.01 - Adverse Outcome Pathways	1.04 - Mechanistic Ecotox Macro & Micro Plastics	1.03 - Bio-transformation & Elimination Rate	1.01 - Adverse Outcome Pathways	1.04 - Mechanistic Ecotox Macro & Micro Plastics	4.07 - Natural Toxins & Harmful Algal Blooms	8.01 - Environmental Specimen Banks 	5.03 - Emerging Technologies & Raw Materials	7.03 - Indigenity & Science

SESSIONS OVERVIEW

All sessions have poster exhibition at the same day as their associated platform session.

Session	Day	Location
1. Ecotoxicology and Human Toxicology: From Molecules to Organisms, from Omics to In Vivo		
1.01 – Advancing the Adverse Outcome Pathway Framework – An International Horizon Scanning Approach	Thursday	Session Room P
1.02 – Alternative Approaches to Animal Testing for Ecotoxicity Assessments	Monday	Session Room P
1.03 – BiER Is Good for You: How Biotransformation and Elimination Rate Information Can Improve Chemical Assessments	Thursday	Session Room Q
1.04 – Ecotoxicology of Micro and Nanoplastics: Mechanistic Approaches to Understand Their Risk for the Environment and Human Health	Thursday	Session Room N
1.05 – Emergence and Multidimensional Interactions of Engineered Nanoparticles in Toxicology	Wednesday	Session Room N
1.06 – Fish Model Species in Human and Environmental Toxicology	Monday	Session Room P
1.07 – Fungicides – An Overlooked Compound Group? Fate, Effects, Risk Assessment and Mitigation	Tuesday	Exhibition Hall*
1.08 – Integrated Approaches in Ecotoxicology: Bridging the Gap Between Experimental Toxicology and Mechanistic Modelling	Tuesday	Session Room P
1.09 – Luminescent Biomonitoring Via Bioassays of Different Complexity – From Cells Trough Enzyme Reactions to Proteins	Wednesday	Session Room O
1.10 – Advances in Evaluating and Regulating Endocrine Disruptors	Thursday	Session Room P
1.11 – Obesogens and Lipid Disruptors	Wednesday	Session Room P
1.12 – The Added Value of Using Invertebrate Species in Ecotoxicology: New Insights for Environmental Risk Assessment	Tuesday	Session Room P
1.13 – Systems Ecotoxicology: Application of OMICs Data Across Multiple Level of Biological Organisation in Research and Risk Assessment	Wednesday	Session Room P
1.14 – Epigenetic and Evolutionary Toxicology: From Mechanisms to Risk Assessment	Wednesday	Exhibition Hall*
2. Ecotoxicology Becomes Stress Ecology: From Populations to Ecosystems and Landscapes		
2.01 – Big Data Analysis in Ecotoxicology: How to Get New Information Out of Existing Data?	Tuesday	Session Room E
2.02 – Ecological Risks Under Complex, Multiple-Stressor Threat Scenarios: Integrating Chemical Effects with Environmental Drivers	Wednesday	Session Room A
2.03 – Behavioural Ecotoxicology: Unravelling Behavioural Responses to Chemical Contaminants in the Environment	Tuesday	Session Room D
2.04 – Microbial Community Ecotoxicology in Environmental Risk Assessment and Ecosystem Monitoring	Tuesday	Session Room B
2.05 – Plants: Predicting and Assessing Direct, Indirect Effects and Recovery of Plants From Chemical Stress	Wednesday	Session Room N
2.06 – Recent Developments in Environmental Risk Assessment for Pollinators	Tuesday	Session Room E
2.07 – Salt of the Earth – Causes, Consequences and Management of Salinisation of Surface Freshwaters, Groundwaters and Soils	Wednesday	Exhibition Hall*
2.08 – When Ecotoxicology Meets Trophic Ecology	Tuesday	Session Room O
2.09 – Wildlife Ecotoxicology: Laboratory Dosing Studies to Field Population Assessments	Monday	Session Room E
3. Environmental Chemistry and Exposure Assessment: Analysis, Monitoring, Fate and Modeling		
3.01 – Advances in Environmental Risk Assessment of Oil Spills and Offshore Oil & Gas Operations	Monday	Session Room O
3.02 – Advances in Monitoring and Evaluating Remedy Effectiveness for In Situ Amendments in Soils and Sediments	Wednesday	Session Room D
3.03 – Air Pollution, Biomonitoring and Human Health	Tuesday	Session Room O
3.04 – Analysis and Fate of Emerging Contaminants in Soils, Water and Plants Under Water Scarcity	Wednesday	Session Room E
3.05 – Bioavailability and Realistic Risk Assessment of Organic Chemicals	Monday	Session Room B
3.06 – Distribution, Transformations and Biological Effects of Incidental Nanoparticles and Nanoplastics in the Environment from a More Realistic Point of View	Wednesday	Session Room N
3.07 – Environmental Fate of Emerging Contaminants in the Water Cycle: Analytical Challenges and Engineered Solutions	Monday	Session Room D

*Poster only session

SESSIONS OVERVIEW

Session	Day	Location
3.08 – Environmental Monitoring of Contaminants Using Terrestrial Ecological Biomonitors	Wednesday	Session Room O
3.09 – New Horizons in Particulate Polymer Analysis: Micro – and Nanoplastics and Tire Rubber Detection, Characterisation and Impacts in the Environment	Monday	Session Room N
3.10 – From Detection to Action: Advancements in Assessing and Managing Highly Fluorinated Compounds	Thursday	Session Room E
3.11 – Hydrophobic Chemicals and Mixtures: Reliable Investigations on Their Environmental Fate and Effects	Monday	Session Room B
3.12 – Improvements in Environmental Exposure Assessment: Development and Application of Tools Across Industry Sectors, Regulatory Agencies, and International Boundaries	Thursday	Session Room M
3.13 – Innovative Techniques for Enhancing and Monitoring Microbial Activities for In Situ Remediation of Contaminated Sites	Tuesday	Session Room B
3.14 – Mercury Biogeosciences – Fate, Effects and Policy	Monday	Session Room A
3.15 – Microplastics in Freshwater and Terrestrial Systems – Fate, Monitoring and Biological Interactions	Tuesday	Session Room N
3.16 – Modelling and Monitoring of Pesticides Fate and Exposure in a Regulatory Context	Monday	Session Room A
3.17 – Persistence & Biodegradation Assessment	Tuesday	Session Room B
3.18 – The Environment as a Reactor Determining Fate and Toxicity of Nanomaterials	Monday	Session Room N
3.19 – Understanding Human and Environmental Exposure to Chemicals in Urban Systems	Tuesday	Session Room M
4. Ecological Risk Assessment and Human Health Risk Assessment of Chemicals, Mixtures and Stressors and Risk Mitigation Strategies		
4.01 – (Eco)Toxicity Tests for Hazard Evaluation of Recycling Materials and Waste	Wednesday	Exhibition Hall*
4.02 – Advances In Soil Ecotoxicology and Risk Assessment of Terrestrial Ecosystems	Thursday	Session Room B
4.03 – Antibiotics and Antibiotic Resistance in the Environment: Fate and Ecological Effects, Resistance Development and Implications for Human Health	Wednesday	Session Room M
4.04 – Developments in the Ecological and Human Health Risk Assessment of Biopesticides: Microorganisms, Semiochemicals and Botanicals	Tuesday	Exhibition Hall*
4.05 – Environmental Risk Assessment in Time and Space – New Approaches to Deal with Ecological Complexity	Monday	Session Room M
4.06 – Developments in the Use of Bioassays for Chemical and Environmental Risk Assessment	Thursday	Session Room D
4.07 – Natural Toxins and Harmful Algal Blooms (Habs): Water and Food Safety, Analysis, Toxicity, and Risks	Thursday	Session Room O
4.08 – Hazard and Exposure Assessment of Chemical Mixtures: Steps Towards Increasing the Realism of Chemical Risk Assessment	Thursday	Session Room A
4.09 – Environmental Risk Assessment in Sediments	Wednesday	Session Room D
4.10 – Improving the Environmental Risk Assessment of the Aquaculture 'Blue Revolution'	Wednesday	Session Room O
4.11 – Improving the Quality of Ecotoxicological Testing and Assessment	Wednesday	Session Room B
4.12 – Biocides and Veterinary Medicines: Latest Developments in Regulatory Risk Assessment, Research and Monitoring	Monday	Session Room M
4.13 – Mechanistic Effect Modelling for Risk Assessment: Applications, Use in a Regulatory Context and Future Directions	Monday	Session Room M
4.14 – Prioritisation and Intelligent Testing of Pharmaceuticals in the Environment	Wednesday	Session Room M
4.15 – Environmental Effects of Metals: Improvements to Risk Assessment by Considering Speciation and Bioavailability	Tuesday	Session Room M
4.16 – Wastewater Effluents: How Research Can Improve Risk Assessment and Regulation	Wednesday	Session Room E
5. Life Cycle Assessment and Foot-Printing		
5.01 – Building of Large-Scale Inventories of Emissions and Resources and Applications for Environmental Footprints of Territories, Nations and Sectors	Monday	Session Room E
5.02 – Challenges, Methodological Developments and Practical Solutions for Social Life Cycle Assessment in Industry and Policy	Thursday	Session Room C

*Poster only session

SESSIONS OVERVIEW

Session	Day	Location
5.03 – Emerging Technologies and Related Raw Materials Requirements Scenarios: The Role of Life Cycle Thinking	Thursday	Session Room C
5.04 – Integrating Life Cycle Approaches Towards a Sustainable Circular Economy	Tuesday	Session Room C
5.05 – Interpretation and Uncertainty – Overcoming Challenges of Translating LCA Results Into Reliable Information	Monday	Session Room C
5.06 – LCA and Beyond – Integrating Sustainability and/or Other Dimensions to Improve Decision Support	Wednesday	Session Room C
5.07 – LCIA Method Developments in a Global Perspective: Status and Outlook	Monday	Session Room C
5.08 – New Frontiers in Life Cycle Inventory Data Collection and Modelling	Tuesday	Session Room C
5.09 – Product Benefits and Positive Outcomes: Valuation and Beyond	Wednesday	Session Room C
6. Environmental Policy, Risk Management, and Science Communication		
6.01 – Challenges in Setting, Meeting and Measuring Specific Protection Goals for Plant Protection Products	Tuesday	Session Room A
6.02 – Derivation, Validation and Implementation of Environmental Quality Benchmarks	Tuesday	Session Room A
6.03 – Environmental Risk Assessment and Management of The Spoil Material Produced in Tunnelling Excavation	Wednesday	Session Room D
6.04 – Informed Substitution of Hazardous Chemicals for Circular Economy: Science and Practice	Tuesday	Session Room D
6.05 – Pbt/Vpvh & Pmt/Vpvm Substances and Non-Extractable Residues (Ner): Scientific Strategies, Analytical Challenges and Regulatory Issues	Wednesday	Session Room B
6.06 – Risk Assessment of Nanomaterials: Innovative Approaches and Application of Recent Research Developments to Regulatory Science	Thursday	Session Room N
6.07 – Safe by Design: Responsible and Innovative Research for Safe and Sustainable Chemistry	Tuesday	Session Room D
6.08 – The Need for Resilience in Environmental Impact Assessment	Tuesday	Exhibition Hall*
6.09 – Use of Effect Based Methods in the Context of the National and European Legislative Framework for the Protection of Aquatic Ecosystems	Tuesday	Exhibition Hall*
6.10 – What's Your Take on Communication? Don't Panic! Reports on How to Accurately Communicating Science and Risk	Wednesday	Exhibition Hall*
7. Think-Outside-The-Box (Fundamentally New Concepts, Innovative/Controversial Ideas, Interdisciplinary Issues)		
7.01 – Anthropogenic and Natural Sources of Environmental Contaminants Highlight the Impacts of Opposing and Conflicting Regulations	Tuesday	Session Room A
7.02 – Can Trends in Wildlife Populations Revolutionise our Understanding of the Impacts of Chemicals on the Environment?	Tuesday	Session Room E
7.03 – Indigeneity and Science: A Collaborative Work in Progress	Thursday	Session Room E
7.04 – Thinking Green and Circularly About Microparticles, Nanomaterials and Composite Materials: Approaches for Recovery, Recycling and Reuse	Wednesday	Exhibition Hall*
8. Special Sessions		
8.01 – Environmental Specimen Banks in Research and Regulation for a Better Environmental Quality	Thursday	Session Room Q
8.02 – Harmful Effects of Plastic Litter and Mitigation Strategies in the Mediterranean Sea	Wednesday	Session Room Q
8.03 – Migratory Bird Species at Risk - The Role of Pesticides and Other Chemicals	Monday	Session Room Q
8.04 – Safeguard and Conservation of Cultural Heritage: The Contribution of Chemistry	Monday	Session Room Q
8.05 – Solutions for Emerging Pollutants – Towards a Holistic Chemical Quality Status Assessment in European Freshwater Resources	Tuesday	Session Room Q
8.06 – Sustainable Development Goals: The Global Context Defining the Agenda for Government, Business and Academia	Monday	Session Room Q
8.07 – Towards a Shared Understanding of Science and Risk Communication in the Context of the Inevitability of Chemicals and the Hazard They May Represent	Wednesday	Session Room Q

*Poster only session



GHENT BELGIUM
2019

SETAC 8th YOUNG ENVIRONMENTAL SCIENTISTS MEETING



5-10 February 2019
Ghent, Belgium



www.yes2019.setac.org

STUDENT ACTIVITIES AT A GLANCE

Sunday

5:00 p.m.–6:00 p.m.	Mentorship Programme Pre-registration required Gather with your mentor and other mentees before the Opening Ceremony.	Meeting Room 11
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Monday

12:25 p.m.–1:55 p.m.	Student Mentor Lunch Free While enjoying lunch, get in touch with established scientists from all over the world. <i>Get your ticket Monday morning at the registration desk.</i>	Workshop Room
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Tuesday

12:25 p.m.–1:55 p.m.	Student Lunch Seminar Free In this interactive session, Agnieszka Hunka will talk about risk communication. <i>Get your ticket Tuesday morning at the registration desk.</i>	Workshop Room
9:00 p.m.–3:00 a.m.	Student Party 20€ You are never too old to have fun and hit the dance floor! It is party time for scientists of all ages! There will be drinks, music and dancing at Locanda Atlantide. <i>Tickets are still available at the registration desk.</i>	Locanda Atlantide, Via Dei Lucani 22, Rome

Wednesday

8:00 a.m.–11:15 a.m.	Job Event Pre-registration required Students and companies can meet each other to discuss job opportunities during this speed dating event.	Meeting Room 11
2:30 p.m.–3:30 p.m.	Students Assembly All students are welcome to join! Discover what is happening in the world of Student Advisory Council (SAC) and students of SETAC.	Workshop Room



Early Career Working Group

Wednesday, 16 May | 4:30 p.m.–5:30 p.m. | Workshop Room

Do you identify yourself as an early career professional (e.g. postdoc, recently started in consulting or industry,...)? If so, we need your help. SETAC Europe is establishing an Early Career Working Group to identify how we can help you with your career progression and professional development. We are looking to

expand this area for our membership and we need your input to make the right decisions and focus on things that you feel passionate about.

If you're interested in joining the Early Career Working Group, that's great, but we are also looking for guidance without future commitment if you prefer.

So if you simply want to share your experiences and ideas or if you'd like to join our Working Group, come along on **Wednesday, 16 May from 4:30 p.m. to 5:30 p.m. in the Workshop Room**. You will meet SETAC Europe Council Members who are working to make the Society more inclusive so as to represent all of our membership and also like-minded early career professionals who want a voice within our Society.

SUNDAY 13 MAY

Daily Schedule		Location
7:30 a.m.–8:00 p.m.	Registration Open	Registration Area
8:00 a.m.–5:00 p.m.	Training Courses	see list below
12:00 p.m.–1:00 p.m.	Lunch Break	
5:00 p.m.–6:00 p.m.	Mentorship Programme Gathering	Meeting Room 11
6:00 p.m.–7:30 p.m.	Opening Ceremony featuring Keynote Speaker Roger Strand Award Ceremony	Auditorium
7:30 p.m.–9:30 p.m.	Welcome Reception and Exhibition Opening	Exhibition Hall

Satellite Meetings		Location
9:00 a.m.–4:00 p.m.	SETAC Europe Council Meeting	Meeting Room 6
12:50 p.m.–5:30 p.m.	Science & Risk Communication SCIRIC IG Symposium	Meeting Room 10
1:00 p.m.–5:30 p.m.	Pharmaceuticals IG Symposium	Session Room 0
4:00 p.m.–5:30 p.m.	ECETOC – Aquatic Tox/Particulates TF	Meeting Room 9

Training Courses

Morning Half-Day Courses 8:00 a.m.–12:00 p.m.		Location
TC06	Introduction to Interspecies Toxicity Extrapolation Using the Epa's Web-Ice Tool	Meeting Room 9
TC07	How to be Successful in Scientific Publishing	Meeting Room 2
Afternoon Half-Day Courses 1:00 p.m.–5:00 p.m.		Location
TC08	Project Management for Scientists	Meeting Room 2

Full-Day Courses 8:00 a.m.–5:00 p.m.		Location
TC01	The Endocrine System: Global Perspectives on Testing Methods and Evaluation of Endocrine Activity	Meeting Room 3
TC02	Statistical Issues in the Design and Analysis of Ecotox Experiments	Meeting Room 8
TC03	Effective Live Presentations for Scientists: Get Your Message Across Using Improvisational Theatre Techniques	Session Room N
TC04	Testing Methods for Honey Bees, Bumblebees and Solitary Bees on the Context of Pesticide Registration	Meeting Room 1
TC05	Statistical Methods in Ecotoxicology Using R	Meeting Room 7

OPENING CEREMONY

Sunday, 13 May | 6:00 p.m. | Auditorium

Responsible Research and Innovation (RRI): A Path Towards Sustainability?



Roger Strand

University of Bergen, Norway

Roger Strand is Professor at the Centre for the Study of the Sciences and Humanities and the Centre for Cancer Biomarkers at the University of Bergen, Norway, and Adjunct Professor at Department of Biotechnology and Food Science, the Norwegian

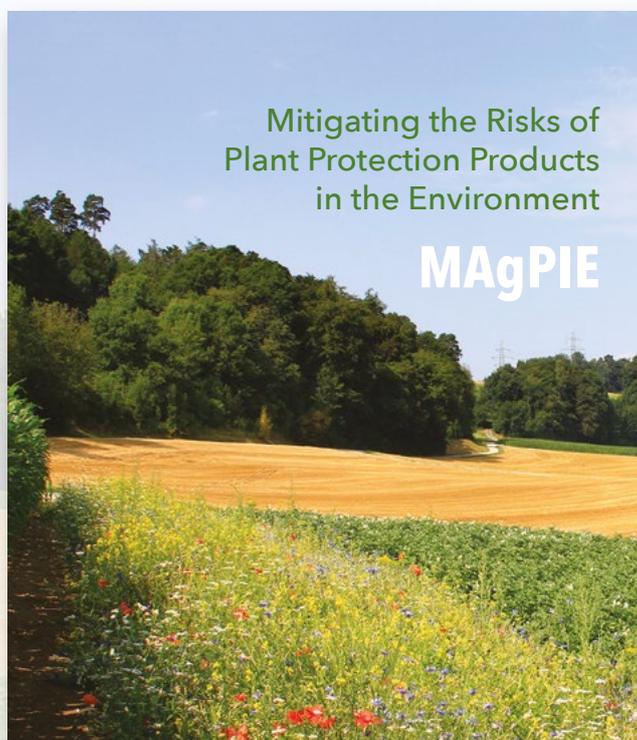
University of Science and Technology, Trondheim, Norway. Originally trained as a natural scientist (PhD, biochemistry 1998), Strand developed research interests in the philosophy of science and has worked on issues

of scientific uncertainty and complexity, including the theory of post-normal science. This has gradually led his research into broader strands of social research, philosophy and broader issues of policy, decision-making and governance at the science-society interface. He has coordinated two EU FP7 projects (TECHNOLIFE and EPINET), which both addressed the need for more dynamic governance of science in society. He was a member of the National Research Ethics Committee for Science and Technology in Norway (2006-2013) and Chair of the European Commission Expert Group on Indicators for Responsible Research and Innovation (2014-2015). He is one of the Directors of the European Centre for Governance in Complexity.



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Mitigating the Risks of
Plant Protection Products
in the Environment

MAGPIE

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Martin Strelöke



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8TH SETAC WORLD CONGRESS

6-10 SEPTEMBER 2020 | SINGAPORE

MONDAY 14 MAY

Daily Schedule		Location
7:30 a.m.–6:30 p.m.	Registration Open	Registration Desk
7:30 a.m.–8:30 a.m.	Poster Setup	Exhibition Hall
8:30 a.m.–10:05 p.m.	Platform Session <i>Morning 1</i>	
10:05 a.m.–10:50 a.m.	Coffee Break & Poster Viewing	Exhibition Hall
10:50 a.m.–12:25 p.m.	Platform Session <i>Morning 2</i>	
12:25 p.m.–1:55 p.m.	Lunch Break and Poster Viewing	Exhibition Hall
12:25 p.m.–1:55 p.m.	Student Mentor Lunch	Workshop Room
1:55 p.m.–3:30 p.m.	Platform Session <i>Afternoon</i>	
2:00 p.m.–6:00 p.m.	Reddit Ask Me Anything	SETAC Square
3:30 p.m.–4:15 p.m.	Coffee Break & Poster Viewing	Exhibition Hall
4:15 p.m.–5:00 p.m.	Keynote Speaker Bernhard Url	Session Room A+B
5:15 p.m.–6:15 p.m.	Poster Social	Exhibition Hall

KEYNOTE SPEAKER

Monday, 14 May | 4:15 p.m.–5:00 p.m. | Session Room A+B

Food Safety in a Complex Changing World



Bernhard Url

European Food Safety Agency (EFSA), Italy

Dr. Bernhard Url was appointed Executive Director of EFSA in June 2014, having served as Acting Executive Director for seven months. Dr. Url joined EFSA in June 2012 as Head of the Risk Assessment and Scientific Assistance Department. A qualified veterinarian by training, he brings high-level management

experience from food-safety organisations to his role at EFSA.

Prior to joining the Authority, Dr. Url was Managing Director of the Austrian Agency for Health and Food Safety (AGES), which represents Austria on EFSA's Advisory Forum. From 2008 to March 2012, he also served as a member of EFSA's Management Board.

During his 10 years at AGES, he was in charge of technical and scientific affairs with a remit that included the timely delivery of risk assessment and risk management services across a wide range of areas. This included ensuring effective risk communications during urgent food safety-related events.

Prior to AGES Dr. Url spent five years as an Assistant Professor at the Institute of Milk Hygiene and Milk Technology at the University of Veterinary Medicine in Vienna before running a food quality control laboratory from 1993 to 2002.

Dr. Url graduated from the University of Veterinary Medicine in Vienna in 1987 and became a Doctor of Veterinary Medicine in 1990. He has published in the field of veterinary medicine with a particular focus on listeria and milk hygiene.

MONDAY 14 MAY

Satellite Meetings		Location
08:00 a.m.–09:00 a.m.	Global Horizon Scanning Project: Open Meeting	Meeting Room 1
09:00 a.m.–10:00 a.m.	SCIRIC Annual Meeting 2018	Meeting Room 1
09:00 a.m.–10:00 a.m.	SETAC World Finance Committee	Meeting Room 6
10:00 a.m.–11:30 a.m.	CRA multiple-choice examination	Meeting Room 1
11:00 a.m.–12:00 p.m.	Membership & PR Committee	Meeting Room 1
11:00 p.m.–12:00 p.m.	SETAC Europe Finance Committee	Meeting Room 9
12:00 p.m.–2:00 p.m.	ET&C Editorial Lunch Meeting	Meeting Room 6
12:25 p.m.–1:55 p.m.	Student Mentor Lunch	Workshop Room
12:55 p.m.–1:55 p.m.	Interest Group Summit	Meeting Room 10
2:00 p.m.–3:00 p.m.	SETAC Europe Development Committee	Meeting Room 9
2:00 p.m.–3:30 p.m.	IEAM Editorial Meeting	Meeting Room 10
2:00 p.m.–4:00 p.m.	Global Science Committee	Meeting Room 8
2:00 p.m.–6:00 p.m.	Reddit Ask Me Anything	SETAC Square
2:30 p.m.–3:30 p.m.	Student Advisory Council	Meeting Room 7
3:00 p.m.–5:00 p.m.	Italian Language Branch	Meeting Room 6
4:00 p.m.–5:00 p.m.	An online tool for dynamic LCA – DyPLCA	Meeting Room 7
4:00 p.m.–5:30 p.m.	ECETOC/CEFIC LRI ECO 35 – Progress review Meeting	Meeting Room 9
4:00 p.m.–6:00 p.m.	ICPPR Microbials and bees working group	Meeting Room 8
4:30 p.m.–6:00 p.m.	IPCP 2018 General Assembly	Meeting Room 2
4:30 p.m.–6:30 p.m.	NanoFASE Hands-on Stakeholder Consultation	Meeting Room 10
5:00 p.m.–6:00 p.m.	Bioaccumulation Science Interest Group	Session Room O
5:30 p.m.–7:00 p.m.	Dung Organism Toxicity Testing (DOTTS) Interest Group	Meeting Room 1
5:30 p.m.–7:00 p.m.	Metals Interest Group	Session Room M
5:30 p.m.–7:00 p.m.	SETAC Nanotechnology Interest Group	Meeting Room 6
6:00 p.m.	LCA Social Event	Welcome to Rome, Corso Vittorio Emanuele II, 203, 00186 Rome

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PROGRAMME HIGHLIGHTS

★ Special Session

Safeguard and Conservation of Cultural Heritage: The Contribution of Chemistry

Monday, 14 May | 8:30 a.m.–10:05 a.m. | Session Room Q

Lucia Toniolo

Politecnico di Milano, Italy

Rocco Mazzeo

University of Bologna, Italy

The contribution of chemistry and material science to the knowledge, conservation and monitoring of Cultural Heritage is relevant and well established in the scientific community. Artefacts and polychrome artefacts, historical buildings and archaeological heritage are complex material systems subjected to continuous stress deriving from aggressive environmental conditions and climate change with increasing kinetic of deterioration processes. The conservation and enhancement and exploitation of the huge world heritage deserves attention and needs innovative materials and technical solutions, besides a great research effort for the development of a new consciousness of the society. Climate change and pollution threats are difficult to face and control, while

new nanomaterials are proposed and used in different areas, without an appropriate set-up and evaluation of the connected risks. The European Commission is aware of the importance of this Societal Challenge and of the determinant impact of Cultural Heritage for the formation and development of the European citizenship. The Special Session would like to present the main responses given by the research in Europe with an overview of the main problems and innovation opportunities in the field of safeguard of Cultural properties. The new European infrastructure E-RIHS (Research Infrastructure Heritage Science), under the Italian guidance and leadership, will be presented in details during the session.

Programme

- 08:30 a.m. Introduction
- 08:35 a.m. Cultural Heritage and Climate Change: impact and adaptation | **Cristina Sabbioni**, *CNR-ISAC – Istituto di Scienze dell'Atmosfera e del Clima, Italy*
- 09:05 a.m. Nanotechnologies for the conservation and connected risks | **Maria Mosquera**, *University of Cadiz, Spain*
- 09:35 a.m. Towards the European Research Infrastructure in Heritage Science: E-RIHS | **Luca Pezzati**, *CNR-Istituto Nazionale di Ottica, Italy*
- 09:55 a.m. Discussion & Conclusions
- 10:05 a.m. End

Student Mentor Lunch

12:25 p.m.–1:55 p.m. | Workshop Room

Get in touch with established scientists and with other students from all over the world. Enjoy the informal atmosphere and enlarge your network while having a nice lunch!

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Tickets are distributed Monday morning at the registration desk. First come, first served!



Join the SETAC sponsored
Reddit Ask Me Anything

Monday 14 May | 2 p.m.–6 p.m.
SETAC Square

Help answer questions
to anyone curious
about our science!



PROGRAMME HIGHLIGHTS

★ Special Session

Sustainable Development Goals: The Global Context defining the Agenda for Government, Business and Academia

Monday, 14 May | 10:50 a.m.–12:25 p.m. | Session Room Q

Patricia Navarra

ENEL, Italy

Paolo Masoni

Ecoinnovazione srl, Italy

Sustainable Development Goals, to be achieved by 2030, have been approved in 2015 in the Agenda for the Sustainable Development by the member states of the United Nations. They are 17 goals, 168 targets and more than 200 indicators. The ambition and complexity of Agenda 2030 requires a strong involvement and commitment of all components of the society: business, public sector, academia and research centers, cultural operators and associations.

In 2012, SETAC approved the Berlin Declaration on Sustainability as a basis for its engagement towards the sustainability. Moreover, SETAC, together with the United Nation Environment, promotes and leads the Life Cycle Initiative, a public-private, multi-stakeholder partnership enabling the global use of credible life cycle knowledge

by private and public decision makers, to identify possible tradeoffs and avoiding problem shifting. Its mission is to bring Life Cycle Thinking to the mindsets of decision makers with the practical knowledge and tools to enhance the sustainability of their decisions, as a basis for supporting governments and businesses in achieving the Sustainable Development Goals.

Purpose of this special session is to provide SETAC members with a clear picture of the general context from the different perspectives of business, government and academia. Ambition of the special session is to help each participant in better understanding how her/his personal work can contribute to the overarching sustainable developing goals.

Programme

- 10:50 a.m. Introduction
- 10:55 a.m. Can the Agenda 2030 and the Sustainable Development Goals be the drivers to change the world? | **Enrico Giovannini**, *AsviS, Italy*
- 11:10 a.m. How the SDGs are being addressed in Horizon 2020 | **Marialuisa Tamborra**, *European Commission – DG Research and Innovation, Belgium*
- 11:25 a.m. Examples of EU projects related to SDGs | **Marco Recchioni**, *European Commission – EASME, Belgium*
- 11:40 a.m. Why SDGs are relevant for a large enterprise | **Andrea Valcalda**, *ENEL, Italy*
- 11:55 a.m. Conclusions | **Elisa Tonda**, *UN Environment, France*
- 12:10 p.m. Questions & Answers
- 12:25 p.m. End

PROGRAMME HIGHLIGHTS

★ Special Session

Migratory Bird Species at Risk: The Role of Pesticides and Other Chemicals

Monday, 14 May | 1:55 p.m.–3:30 p.m. | Session Room Q

Nico van den Brink

*Wageningen University,
Netherlands*

Borja Heredia

UNEP/CMS, Germany

Rafael Mateo

IREC – CSIC – UCLM, Spain

Richard Shore

*Centre for Ecology &
Hydrology, UK*

Several migratory bird species are iconic species that inspire people but often also act as indicators for environmental health. Worldwide, populations of migratory birds are under pressure, showing declines in populations and sometimes they are even endangered. Within the United Nations Convention on the Conservation of Migratory Species of Wild Animals (<http://www.cms.int/>), the Avian Species Team works on the assessment of the status of populations of (endangered) migratory bird species, identifying potential threats to those species and improving their (international) management. Management and conservation of migratory bird species is complex, due to the need to address a range of threats that may act across part or all of entire fly ways which cross borders and multiple diverse habitats. Within the UN Avian Species Team there is more and more concern that chemicals affect migratory bird species, and that this issue demands specific attention. However, obtaining clear evidence of pollution-mediated effects is very complicated due to the long range movements of migratory species, complex exposure scenarios to different classes of compounds in different regions along migration routes, and the logistics of working across multiple countries. Furthermore, this UN-team does not have the experience neither the capacity to fully explore the potential threats that chemicals may pose to migratory species. Recently, the Preventing Poisoning Working Group of the UN-Avian Species

Team made a first inventory of potential chemical risks to migratory birds along their migration fly ways and concluded that these included pesticides, rodenticides, pharmaceuticals, lead ammunition and fishing weights and deliberate poisoning. For further development of this inventory, and to assess actual risks of chemicals, the UN-Avian Species Team reached out to the Wildlife Toxicology Interest Group (SETAC World) to gain the experience needed for this process.

Rationale for a session at this meeting:

- The issue is closely related to the central theme of the conference “Responsible and Innovative Research for Environmental Quality” since this complex issue can only be solved by applying new and innovative tools and concepts. This is essential for e.g. non-destructive collection of sampling, back tracing of exposure routes (e.g. by application of stable isotopes or other signals).
- This issue is highly connected to the Mediterranean Sea and its bordering countries since there are several areas where migratory birds stay during the winter while several important migratory fly ways cross the Mediterranean e.g. via Israel, Spain and Italy.
- This topic will likely need the involvement of a wider part of the SETAC community. This would also bring SETAC in close connection with an important Directive of the UN, expanding the potential outreach of SETAC.

Programme

- 1:55 p.m. Introduction
- 2:00 p.m. CMS talk setting the scene for the CMS working group on poisoning and outlining CMS needs in terms of scientific input from SETAC | **Borja Heredia**, *UNEP/CMS, Germany*
- 2:15 p.m. Main scientific gaps in knowledge of risk from pesticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Christine Bishop**, *Environment and Climate Change Canada, Canada – Poster Spotlight MO456*
- 2:20 p.m. Main scientific gaps in knowledge of risk from rodenticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Philippe Berny**, *VetAgro Sup, France – Poster Spotlight MO457*
- 2:25 p.m. Main scientific gaps in knowledge of risk from Pb ammunition and shot to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Ruth Cromie**, *Wildfowl & Wetlands Trust, UK – Poster Spotlight MO458*
- 2:30 p.m. Main scientific gaps on knowledge of NSAIDs [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Mark Taggart**, *University of the Highlands and Islands, UK – Poster Spotlight MO459*
- 2:35 p.m. Main scientific gaps on knowledge of deliberate poisoning to [migratory] wildlife globally | **Martin Odino**, *Independent Environmental Services Professional, Kenya – Poster Spotlight MO460*
- 2:40 p.m. Questions and discussion
- 2:50 p.m. Regulatory view describing the extent to which [if any] regulation takes into account neighbouring country/regional use of compounds, accounts for how local use might affect migratory species, how field data on migratory species might feed into regulatory processes | **Rachel Sharp**, *EFSA, Italy*
- 3:10 p.m. Panel discussion with audience and presenters focusing on how SETAC can interact with CMS usefully to provide scientific evidence and expertise
- 3:30 p.m. End

	8:35 a.m.	8:50 a.m.	9:05 a.m.
Session Room A	Modelling and Monitoring of Pesticides Fate and Exposure in a Regulatory Context (I) Bernhard Gottesbueren,...		
	001 The SETAC DRAW workshops – aims, approaches and progress to date Neil Mackay , <i>FMC Corporation, UK</i>	002 Plant uptake in regulatory environmental exposure assessment: Refined modelling based on experimental data Carola Schriever , <i>BASF SE, Germany</i>	003 Work of a SETAC Group to Develop the Scientific Basis for Guidance for Regulatory Groundwater Monitoring of Crop Protection Products and their Metabolites in Europe Russell Jones , <i>Bayer AG Crop Science Division, USA</i>
Session Room B	Hydrophobic Chemicals and Mixtures: Reliable Investigations on their Environmental Fate and Effects (I) Philipp Mayer,...		
	007 The hydrophobicity delay: Symptoms and solutions Alena Celsie , <i>Queens University, Canada</i>	008 Partitioning of chlorinated paraffins (CPs) to organic matter is not class specific: Implications for bioaccumulation? Mafalda Castro , <i>Stockholm University, Sweden</i>	009 Trophic magnification of cyclic volatile siloxane materials (D4, D5, and D6) in a freshwater lake: A Monte-Carlo analysis Kent Woodburn , <i>The Dow Chemical Company, USA</i>
Session Room C	Interpretation and Uncertainty – Overcoming Challenges of Translating LCA Results Into Reliable Information ...		
	013 LCA: Everything is relative and nothing is certain Reinout Heijungs , <i>Leiden University, Netherlands</i>	014 Drivers of variability and uncertainty in the chemical footprint of personal care products Mélanie Douziech , <i>Radboud University Nijmegen, Netherlands</i>	015 Combined uncertainty and scenario analysis within Life Cycle Assessment of waste management systems Valentina Bisinella , <i>DTU – Technical University of Denmark, Denmark</i>
Session Room D	Environmental Fate of Emerging Contaminants in the Water Cycle: Analytical Challenges and Engineered Solutions (I) ...		
	019 Unravelling longitudinal pollution patterns in freshwaters by non-target screening and cluster analysis Liza-Marie Beckers , <i>Helmholtz-Zentrum für Umweltforschung GmbH – UFZ, Germany</i>	020 Tracing sewage-derived contaminants from mainland towards the ocean by high resolution mass spectrometry Pablo Antonio Lara-Martin , <i>University of Cadiz, Spain</i>	021 Pharmaceuticals, personal care products (PPCPs), and artificial sweeteners (ASWs) in river and groundwater from the Ganges River Basin, India Brij Sharma , <i>RECETOX Masaryk University, Czech Republic</i>
Session Room E	Wildlife Ecotoxicology: Laboratory Dosing Studies to Field Population Assessments (I) John Elliott, Veerle Jaspers,...		
	025 An interspecies correlation model to predict acute dermal toxicity of plant protection products to terrestrial life stages of amphibians Lennart Weltje , <i>BASF SE, Germany</i>	026 Overview of the EFSA Scientific Opinion on the state of the science on pesticide risk assessment for amphibians and reptiles Silvia Pieper , <i>German Federal Environment Agency (UBA), Germany</i>	027 Ecotoxicological assessment of <i>Caretta caretta</i> (Linnaeus, 1758) in the Mediterranean Sea using an integrated non-invasive protocol Silvia Casini , <i>University of Siena, Italy</i>
Session Room M	Biocides and Veterinary Medicines: Latest Developments in Regulatory Risk Assessment, Research and Monitoring ...		
	031 Regulatory improvement in the assessment of environmental risks from veterinary medicines; a European Perspective Jason Weeks , <i>Joint Nature Conservation Committee, UK</i>	032 Risk of veterinary medicines to plants: Reflections for an updated approach. Ricardo Carapeto García , <i>Spanish Medicines Agency, Spain</i>	033 Innovative environmental assessment of a veterinary medicinal product: Watershed-level impacts of trenbolone acetate and 17 β -estradiol Jane Staveley , <i>Exponent, USA</i>
Session Room N	The Environment as a Reactor Determining Fate and Toxicity of Nanomaterials (I) Susana Loureiro, Cornelis A.M van Gestel,...		
	037 Comparative multi-generation study of long-term effects of pristine and wastewater-borne silver and titanium dioxide nanoparticles on reproduction in <i>Daphnia magna</i> Sarah Hartmann , <i>University of Siegen, Institute of Biology, Germany</i>	038 Development of a rapid screen to assess bioaccumulation potential: From ex vivo to in vivo using pristine and aged nanomaterials in fish Nathaniel Clark , <i>School of Biological Sciences, Plymouth University, UK</i>	039 Fate and Effect of Wastewater Borne Manufactured Nanomaterials on the Aquatic Food Chain Richard Zeumer , <i>Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany</i>
Session Room O	Advances in Environmental Risk Assessment of Oil Spills and Offshore Oil & Gas Operations (I) Vince Palace,...		
	043 Optimization of Oil Spill Response Planning and Preparedness Using Spill Mitigation Impact Assessment (SIMA) Richard Wenning , <i>Ramboll Environ, USA</i>	044 Adapting the SIMA Process to Assess Offshore Decommissioning Options Thomas Coolbaugh , <i>ExxonMobil Research & Engineering, USA</i>	045 Detection and quantification of oil contamination in vegetated areas using hyperspectral remote sensing Guillaume Lassalle , <i>ONERA, France</i>
Session Room P	Fish Model Species in Human and Environmental Toxicology (I) Jessica Legradi, Jorke Kamstra, Riccardo Massei		
	049 Exposure to bisphenol S alters microRNA expression in male zebrafish (<i>Danio rerio</i>) Jiyun Lee , <i>Yongin University, South Korea</i>	050 Zebrafish as a model to investigate mechanisms of adverse metabolic and cardiovascular outcomes associated with elevated dietary selenium exposure David Janz , <i>University of Saskatchewan, Canada</i>	051 Toxicity and neurotoxicity profiling of sediments from Gulf of Bothnia with <i>Danio rerio</i> embryos Riccardo Massei , <i>Helmholtz Centre for Environmental Research UFZ, Germany</i>
★ Session Room Q	Safeguard and Conservation of Cultural Heritage: The Contribution of Chemistry Lucia Toniolo, Rocco Mazzeo		
	8:35 a.m.	9:05 a.m.	
	055 Cultural Heritage and Climate Change: Impact and adaptation Cristina Sabbioni , <i>CNR-Istituto di Scienze dell'Atmosfera e del Clima, Italy</i>	056 Nanotechnologies for the conservation and connected risks Maria Mosquera , <i>University of Cadiz, Spain</i>	

	9:20 a.m.	9:35 a.m.	9:50 a.m.	
Session Room A	...Laura Padovani, Giovanna Azimonti			COFFEE BREAK
	004 Effect of the Freundlich exponent on the finite penetration depth in a homogeneous Freundlich-SFO leaching system Jos Boesten , Wageningen Environmental Research, Netherlands	005 Bespoke monitoring to support Tier 4 FOCUS groundwater assessment Sarah McManus , Syngenta, UK	006 Long-Term Trend of Aquatic Pesticide Risk Anne Paulus , UFZ – Helmholtz Centre for Environmental Research, Germany	
Session Room B	...Felix Stibany, Josh Butler			
	010 Distribution and Bioaccumulation of Polyhalogenated Carbazoles in Aquatic Systems from the USA and China Da Chen , Jinan University, China	011 Bioconcentration factors of constituents of essential oils in fish determined in an in-vivo benchmarked dietary exposure study: A case study for pine oil Changer Chen , Stockholm University, Sweden	012 Role of adipose tissue responsible for echolocation on the bioaccumulation process of lipophilic compounds in harbour porpoises Iris Schaap , Utrecht University, Netherlands	
Session Room C	...Gudrun Obersteiner, Michele De Rosa, Nicole Unger			
	016 Which impact categories are relevant for LCA results interpretation? Antoine Esnouf , Institut National de la Recherche Agronomique, France	017 Reduce the uncertainty of LCA results by prioritizing the regionalization effort: A sectorial meta-analysis Laure Patouillard , CIRAIQ – École Polytechnique de Montréal, Canada	018 Poster spotlight: MO387, MO388, MO389	
Session Room D	...Bozo Zonja, Cristina Postigo, Kai Bester, Karin Wiberg			
	022 Data-dependent fragment ion search for detection of sartans and related compounds in wastewater and surface water Bozo Zonja , IDAEA-CSIC, Spain	023 HR-MS non-target analysis for transformation products of emerging organic contaminants in waste water fractions pre-screened by ELISA Rudolf Schneider , BAM – Federal Institute Materials Research and Testing, Germany	024 Designing a risk based monitoring program for groundwater sources for drinking water production – based on target and suspect screening combined with clustering techniques Annemarie van Wezel , KWR Watercycle Research Institute, Netherlands	
Session Room E	...Emmanuelle Bonneris, Scott Glaberman			
	028 Sucking clams or hunting seals – consequences to walrus health Cristina Panti , University of Siena, Italy	029 Triclosan-induced embryotoxicity in the yellow-legged gull Cristina Possenti , Università degli Studi di Milano, Italy	030 Egg overspray with herbicides and fungicides reduces chick survival in red-legged partridges Manuel Ortiz Santaliestra , Institute for Game and Wildlife Research (IREC) UCLM-CSIC-JCCM, Spain	
Session Room M	...Fabienne Ericher, Jaana Laitinen, Jason Weeks, Anja Kehrer			
	034 How can mesocosm studies increase realism in risk assessment of biocides and veterinary medicines? László Dören , ERM, Germany	035 Emission estimation of insecticides in mink farms Rikke Ovesen , Danish Environmental Protection Agency, Denmark	036 Biocidal active substances in municipal wastewater – what product groups are the sources? Stefanie Wieck , Leuphana University of Lüneburg, Germany	
Session Room N	...Iseult Lynch, Claus Svendsen			
	040 Uptake and elimination kinetics of pristine and aged silver nanoparticles in freshwater benthic organisms Patricia Silva , Universidade de Aveiro, Portugal	041 Transformation of silver nanomaterials by ubiquitous zinc finger peptides Korin Wheeler , Santa Clara University, USA	042 Fate and effects of transformed Ag and TiO2 nanoparticles aged through a lab-scale wastewater treatment system Anastasia Georgantzopoulou , Norwegian Institute for Water Research NIVA, Norway	
Session Room O	... Gregg Tomy, Graham Whale			
	046 A tool for tracking complex ecotoxicological effect data after large pollution events with use of the Deepwater Horizon oil spill as a case study Jonny Beyer , NIVA – Norwegian Institute for Water Research, Norway	047 Oil spill combat and effects in the Arctic coastal environment; self-cleaning potential and in situ burning Susse Wegeberg , Aarhus University, Denmark	048 How stable are our indices? – Differentiating between sources in a weathering environment Stephen Mudge , NILU – Norwegian Institute for Air Research, Norway	
Session Room P	Fish Model Species in Human and Environmental Toxicology (I) Jessica Legradi, Jorke Kamstra, Riccardo Massei			
	052 Proteomics based screening tool to detect molecular responses following aromatase inhibition Steve Ayobahan , IME Fraunhofer, Germany	053 Zebrafish embryos are able to conduct complex biotransformation processes and activation of chemicals Eberhard Küster , Helmholtz Centre for Environmental Research, Germany	054 Differing PM2.5 Filter Extraction Methods: Impact on Chemical and Toxicological Analyses Courtney Roper , Oregon State University, USA	
★ Session Room Q	Safeguard and Conservation of Cultural Heritage: The Contribution of Chemistry Lucia Toniolo, Rocco Mazzeo			
	9:35 a.m.	9:55 a.m.		
	057 Towards the European Research Infrastructure in Heritage Science: E-RIHS Luca Pezzati , CNR-Istituto Nazionale di Ottica, Italy	058 Discussion & Conclusions		

	10:55 a.m.	11:10 a.m.	11:25 a.m.
Session Room A	Modelling and Monitoring of Pesticides Fate and Exposure in a Regulatory Context (II) Bernhard Gottesbueren,...		
	059 Scenario Development for Off-field Soil Exposure and Risk Assessment Joachim Kleinmann , <i>WSC Scientific GmbH, Germany</i>	060 Biogenic residues formation from pesticides – an overview Karolina Nowak , <i>TU Berlin, Germany</i>	061 Derivation of a foliar wash-off factor for FOCUS modelling based on literature research Stephan Sittig , <i>DR. KNOELL CONSULT GmbH, Germany</i>
Session Room B	Hydrophobic Chemicals and Mixtures: Reliable Investigations on their Environmental Fate and Effects (II) Philipp Mayer,...		
	065 Acute Toxicity of Pyrene Associated with Dissolved Organic Matter of Various Molecular Weights to <i>Daphnia magna</i> Hui Lin , <i>School of Environment, Beijing Normal University, China</i>	066 Passive dosing for constant concentration and defined composition of hydrophobic organic mixtures Rikke Hammershøj , <i>Technical University of Denmark, Denmark</i>	067 Biodegradation of volatile substances in soil – Challenges and optimization of test setups (OECD 307) Prasit Shrestha , <i>Fraunhofer Institute for Molecular Biology and Applied Ecology IME, Germany</i>
Session Room C	LCIA Method Developments in a Global Perspective: Status and Outlook (I) Alexis Laurent, Rosalie Van Zelm,...		
	071 Implications of spatial differentiation on LCA-based decision-making: A case study of biochar systems in Indonesia Mikolaj Owsianiak , <i>Technical University of Denmark, Denmark</i>	072 Considering space debris related impacts within the LCIA framework Thibaut Maury , <i>University of Bordeaux, France</i>	073 Implementing ozone formation effects due to poplar plantations for biomass production in Europe in life cycle impact assessment Rosalie Van Zelm , <i>Radboud University, Netherlands</i>
Session Room D	Environmental Fate of Emerging Contaminants in the Water Cycle: Analytical Challenges and Engineered Solutions (II) ...		
	077 Review on removal and reactions of micropollutants in biofilms under growth and non-growth conditions Kai Bester , <i>Aarhus University, Denmark</i>	078 Biodegradation of emerging organic contaminants using an enzyme-mediator system and study of the resulting transformation products Ionut Daniel Caraeu , <i>Cutin University, Australia</i>	079 Evaluation of macrolide antibiotic transformation in model biodegradation and ozonation experiments using target and non-target analyses and ecotoxicological bioassays Senka Terzic , <i>Rudjer Boskovic Institute, Croatia</i>
Session Room E	Wildlife Ecotoxicology: Laboratory Dosing Studies to Field Population Assessments (II) John Elliott, Veerle Jaspers,...		
	083 Effects of PAH exposure on fuelling ability in a long distance migratory shorebird Christy Morrissey , <i>University of Saskatchewan, Canada</i>	084 PFAAs levels, oxidative status and reproductive success in great tits (<i>Parus major</i>) inhabiting a contamination hot-spot Ana López Antia , <i>University Antwerp, Belgium</i>	085 Active and passive monitoring of lead poisoning in birds of prey in Spain Rafael Mateo , <i>IREC-CSIC – UCLM, Spain</i>
Session Room M	Environmental Risk Assessment in Time and Space – New Approaches to Deal with Ecological Complexity Alessio Ippolito,...		
	089 The threshold option, the recovery option and landscape modelling Pernille Thorbek , <i>Syngenta, UK</i>	090 Understanding risk – a better approach to reduce uncertainty Magnus Wang , <i>WSC Scientific GmbH, Germany</i>	091 Developing spatio-temporally realistic representations of agricultural landscapes for assessing the impacts of pesticides on non-target organisms Elżbieta Ziółkowska , <i>Jagiellonian University, Poland</i>
Session Room N	The Environment as a Reactor Determining Fate and Toxicity of Nanomaterials (II) Susana Loureiro, Cornelis A M van Gestel,...		
	095 Mobilisation of silver sulphide nanoparticles in soil column by earthworms' bioturbation Marta Baccaro , <i>Wageningen University, Netherlands</i>	096 Short – and long-term approaches to determine the fate of silver nanoparticles in soil Martin Hoppe , <i>BGR, Germany</i>	097 Determination of attachment efficiency (α) for ENPs in different types of soils by saturated column experiments Karin Norrfors , <i>SLU Uppsala, Sweden</i>
Session Room O	Advances in Environmental Risk Assessment of Oil Spills and Offshore Oil & Gas Operations (II) Vince Palace, Gregg Tomy,...		
	101 MC-252 biomarkers as indicators of oil exposure and pollutant concentration in sediments of the northern Gulf of Mexico Laura Basirico , <i>Louisiana State University, USA</i>	102 Downregulation of hsp90 and increased intermoult duration in the blue crab, <i>Callinectes sapidus</i> , in response to oil exposure Susan Chiasson , <i>Loyola University, USA</i>	103 Physiological and molecular impacts of crude oil and/or dispersant-contaminated seawater and sediments on the sponge <i>Halichondria panicea</i> (phylum Porifera) Johanne Vad , <i>Heriot-Watt University, UK</i>
Session Room P	Fish Model Species in Human and Environmental Toxicology (II) Jessica Legradi, Jorke Kamstra, Riccardo Massei		
	107 Life-stage, and species-specific effects of dietary methylmercury exposure Kristin Bridges , <i>University of North Texas, USA</i>	108 Characterization of molecular toxicity pathways of Fluoxetine in rainbow trout and white sturgeon using RNA-Seq whole transcriptome analyses Alper James Alcaraz , <i>University of Saskatchewan – Toxicology Centre, Canada</i>	109 Transgenerational effects of early life stage exposure to endocrine disruptors across biological scales in a euryhaline model fish Susanne Brander , <i>Oregon State University, USA</i>
Session Room Q	Sustainable Development Goals: The Global Context Defining the Agenda for Government, Business and Academia ...		
	113 Can the Agenda 2030 and the Sustainable Development Goals be the drivers to change the world? Enrico Giovannini , <i>ASviS, Italy</i>	114 How the SDGs are being addressed in Horizon 2020 Marialuisa Tamborra , <i>European Commission – DG Research and Innovation, Belgium</i>	115 Examples of EU projects related to SDGs Marco Recchioni , <i>European Commission – EASME, Belgium</i>

	11:40 a.m.	11:55 a.m.	12:10 p.m.	
Session Room A	...Giovanna Azimonti			LUNCH BREAK
	062 Application of a dynamic aquatic food web model for FOCUS exposure assessment Lauren Padilla , <i>Stone Environmental, Inc., USA</i>	063 Improved assessment of pesticide peak exposure in cultivated mountain watersheds Melissa Morselli , <i>University of Insubria, Italy</i>	064 Implementation of mitigation measures and assessment of its impact under field-specific environmental conditions in the risk indicator SYNOPSIS-WEB for Norway Anto Raja Dominic , <i>Julius Kuehn Institute, Germany</i>	
Session Room B	...Felix Stibany, Josh Butler			
	068 Untangling the biodegradation of hydrophobic chemicals in OECD and novel tests using a unified modelling approach Fabio Polesel , <i>Technical University of Denmark (DTU), Denmark</i>	069 History of polychlorinated biphenyl deposition to snow and ice from the Lomonosovfonna glacier, Svalbard Mark Hermanson , <i>Hermanson & Associates LLC, USA</i>	070 Environmental occurrence and distribution of organic UV stabilizers in the sediment of the Bohai and Yellow Seas Christina Apel , <i>Helmholtz-Zentrum Geesthacht, Germany</i>	
Session Room C	...Ralph Rosenbaum, Heinz Stichnothe			
	074 Relative potency approach for using in vitro information for calculating human effect factors in LCIA Beatrice Salieri , <i>EMPA, Switzerland</i>	075 Integrating endocrine disruption into life cycle impact assessment Yasmine Emar , <i>Technische Universitaet Berlin, Germany</i>	076 Poster spotlight: MO090, MO091, MO100	
Session Room D	...Bozo Zonja, Cristina Postigo, Kai Bester, Karin Wiberg			LUNCH BREAK
	080 DI-SPME – On-fiber Derivatization – GC-MS. An innovative green and cost-effective approach to determine CECs and TPs from a novel anoxic-aerobic photobioreactor Rebeca López-Serna , <i>University of Valladolid, Spain</i>	081 Abatement of amoxicillin, ampicillin and chloramphenicol from aqueous solutions using activated carbons prepared from grape slurry Beatrice Opeolu , <i>Cape Peninsula University of Technology, South Africa</i>	082 Biodegradation of organic micropollutants in constructed wetlands: Comparison of design and operational parameters Pedro Carvalho , <i>Aarhus University, Department of Environmental Science, Denmark</i>	
Session Room E	...Emmanuelle Bonneris, Scott Glaberman			
	086 Persistence of elevated p,p'-DDE levels and HCB-related protoporphyrin IX decrease in eggs of common kestrels from Tenerife (Canary Islands, Spain) Annika Buck , <i>Instituto de Investigación en Recursos Cinegéticos IREC, Spain</i>	087 Long-term increase in secondary exposure to anticoagulant rodenticides in European polecats in Britain Richard Shore , <i>Centre for Ecology & Hydrology (NERC), UK</i>	088 Poster spotlight: MO035, MO036, MO083	
Session Room M	...Thomas Preuss, Domenica Auteri, Ivo Roessink			
	092 Where are the Springtails? A vertical distribution model for Collembolans Vanessa Roeben , <i>RWTH Aachen University, Institute for Environmental Research, Germany</i>	093 A practical application of an individual-based stickleback model in the ERA of PPPs Kate Mintram , <i>University of Exeter, UK</i>	094 Using the Bayesian network relative risk model to integrate molecular effects, ecological context and ecosystem services to estimate risk over space and time Wayne Landis , <i>Western Washington University, USA</i>	
Session Room N	...Iseult Lynch, Claus Svendsen			LUNCH BREAK
	098 The transformation of copper and zinc (-nanoparticles) during sewage sludge combustion Jonas Wielinski , <i>ETH Zürich/Eawag, Switzerland</i>	099 Soil ecotoxicity and dissolution of a marketed nanosilver product – a direct comparison with ionic silver Jelle Mertens , <i>Precious Metals and Rhenium Consortium c/o EPMF, Belgium</i>	100 Tackling nanoparticle fate assessment in surface waters – heteroaggregation as a key process Helene Walch , <i>University of Vienna, Dep. of Environmental Geosciences, Austria</i>	
Session Room O	...Graham Whale			
	104 Advances in the effects of UV on oil toxicity in aquatic organisms Kristin Bridges , <i>University of North Texas, USA</i>	105 Photoenhanced Toxicity of Petroleum to Aquatic Invertebrates and Fish: Review of the Science Mace Barron , <i>U.S. EPA, USA</i>	106 Pilot microcosm study to assess the fate and toxicity of diluted bitumen in an outdoor aquatic environment Jules Blais , <i>University of Ottawa, Canada</i>	
Session Room P	Fish Model Species in Human and Environmental Toxicology (II) Jessica Legradi, Jorke Kamstra, Riccardo Massei			
	110 Integrated OMICS and imaging for a better understanding of ecotoxicological mechanisms – PAH developmental toxicity as an example Eeva-Riikka Vehniäinen , <i>University of Jyväskylä, Finland</i>	111 Physiological / Reproductive Status of Native Fish Exposed to a Complex Chemical Mixture in the BíoBío River, Central Chile Mauricio Quiroz-Jara , <i>Universidad de Concepcion, Chile</i>	112 Poster spotlight: MO248, MO249, MO256	
★ Session Room Q	...Patricia Navarra, Paolo Masoni			
	116 Why SDGs are relevant for a large enterprise Andrea Valcalda , <i>ENEL, Italy</i>	117 Conclusions Elisa Tonda , <i>UN Environment, France</i>	118 Questions and Answers	

	2:00 p.m.	2:15 p.m.	2:30 p.m.
Session Room A	Mercury Biogeosciences – Fate, Effects and Policy Michael Bank, Séverine Le Faucheur, Nelson ODriscoll, Joao Canario		
	119 Rethinking Atmospheric Mercury Chemistry Mae Gustin, University of Nevada, Reno, USA	120 Evaluating spatial dynamics and species variation on mercury and selenium molar ratios in Northeast Atlantic marine fish communities Atabak Azad, NIFES, Norway	121 The interaction of mercury and selenium across environmental media Jacqueline Gerson, Duke University, USA
Session Room B	Bioavailability and Realistic Risk Assessment of Organic Chemicals John Parsons, José Julio Ortega-Calvo,...		
	125 Anisotropic exchange kinetics of organic contaminants with passive samplers in stagnant sediment: Is multiple-thickness passive sampling the better alternative? Amy Oen, Norwegian Geotechnical Inst., Norway	126 Sediment toxicity of chlorpyrifos: Whole sediment bioassay vs. silicon disc passive dosing Kelsey-Jean Walker, University of Amsterdam, Netherlands	127 Implementing desorption extraction methods into bioavailability-oriented bioremediation Rosa Posada, IRNAS CSIC, Spain
Session Room C	LCIA Method Developments in a Global Perspective: Status and Outlook (II) Alexis Laurent, Rosalie Van Zelm,...		
	131 A novel framework for a new generation of water consumption indicators in LCA and footprint studies Montse Núñez, TU Berlin, Germany	132 A midpoint indicator for freshwater resources Charlotte Pradinaud, IRSTEA Montpellier, France	133 Towards global regionalized characterisation factors for water consumption impacts on instream freshwater ecosystems Mattia Damiani, IRSTEA Montpellier, France
Session Room D	Environmental Fate of Emerging Contaminants in the Water Cycle: Analytical Challenges and Engineered Solutions (Iii) ...		
	137 Full scale WWTP balancing with passive samplers offers new insights in xenobiotic elimination processes Tom Galle, Luxembourg Institute of Science and Technology, Luxembourg	138 Screening of wastewater-borne pharmaceuticals and their phototransformation products in rivers Sandra Perez, IDAEA CSIC, Spain	139 Degradation of a polymer probe exposed to different wastewater environments: Linking chemical transformations and potential microbial consumers Antoni Ginebreda, CSIC – Spanish National Research Council, Spain
Session Room E	Building of Large-Scale Inventories of Emissions and Resources and Applications for Environmental Footprints of...		
	143 Framework for building national inventories of toxic emissions to air, water and soil, in Europe Alexandra Leclerc, DTU, Denmark	144 Combining economic modelling and LCA to assess regional policies: Key learning points from a case study on the French forestry sector Thomas Beaussier, INRA, France	145 A regional life cycle approach for assessing the climate change mitigation potential of biobased systems Sinead O'Keefe, Helmholtz centre for environmental research – UFZ, Germany
Session Room M	Mechanistic Effect Modelling for Risk Assessment: Applications, Use in a Regulatory Context and Future Directions ...		
	149 Modelling ecological scenarios for the assessment of chemical effects on stream communities Andre Gergs, gaiac – Research Institute for Ecosystem Analysis and Assessment, Germany	150 Robust implementation of TKTD models with Bayesian inference Virgile Baudrot, Université Lyon 1, France	151 Can TKTD-models describe and predict synergistic interactions in <i>Chironomus riparius</i> ? Nina Cedergreen, University of Copenhagen, Denmark
Session Room N	New Horizons in Particulate Polymer Analysis: Micro – and Nanoplastics and Tire Rubber Detection, Characterisation...		
	155 Atmospheric Microplastic's: A novel method for the identification of microplastic's in the inhalable size range Joseph Levermore, MRC-PHE Centre for Environment and Health, UK	156 Analysis of polystyrene based microplastics in the environment Gabriella Schirinzi, IDAEA-CSIC, Spain	157 Uptake, egestion and accumulation of microplastic in mussel after an experimental exposure Beatriz Fernández, Instituto Español de Oceanografía, Spain
Session Room O	Advances in Environmental Risk Assessment of Oil Spills and Offshore Oil & Gas Operations (III) Vince Palace,...		
	161 Behavioral and physiological responses of bicolor damselfish and mahi-mahi to olfactory cues following crude oil exposure Lela Schlenker, RSMAS, University of Miami, USA	162 A wide range of endpoints are impacted by oil exposure in early and later life stages of marine fish Martin Grosell, RSMAS University of Miami, USA	163 Investigating the endocrine disruptive and genotoxic potential of crude oil samples using adapted in vitro toxicity tests Sarah Johann, Institute for Environmental Research RWTH Aachen University, Germany
Session Room P	Alternative Approaches to Animal Testing for Ecotoxicity Assessments Adam Lillicrap, Teresa Norberg-King, Mark Lampi		
	167 Early life stages of a vertebrate species as an alternative model for the study of stressors in marine environment Mario Araujo, CESAM & DeBio, Portugal	168 Predicting in vivo toxicity from in vitro transcriptional responses following chemical exposure Danilo Basili, University of Liverpool, UK	169 Combining computational modelling with in-vitro cellular responses in order to predict chemical impact on fish growth Kristin Schirmer, Eawag, Switzerland
★ Session Room Q	Migratory Bird Species at Risk – The Role of Pesticides and Other Chemicals Nico van den Brink, Borja Heredia,...		
	2:00 p.m.	2:15 p.m.	2:20 p.m.
	173 CMS talk setting the scene for the CMS working group on poisoning and outlining CMS needs in terms of scientific input from SETAC Borja Heredia, UNEP/CMS, Germany	174 Main scientific gaps in knowledge of risk from pesticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions – Poster Spotlight MO456 Christine Bishop, Environment and Climate Change Canada, Canada	175 Main scientific gaps in knowledge of risk from rodenticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions – Poster Spotlight MO457 Philippe Berny, VETAGRO-SUP, France
			2:25 p.m.
			176 Main scientific gaps in knowledge of risk from Pb ammunition and shot to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions – Poster Spotlight MO458 Ruth Cromie, Wildfowl & Wetlands Trust, UK

	2:45 p.m.		3:00 p.m.		3:15 p.m.	
Session Room A	Mercury Biogeosciences – Fate, Effects and Policy Michael Bank, Séverine Le Faucheur, Nelson O'Driscoll, Joao Canario					
	122 Constraining Uncertainties in the Global Mass Balance of Mercury Using Observations and a Bayesian approach Asif Qureshi, IIT Hyderabad, India		123 Effects of probable nutrient limitation on the relationship between mercury and marine microorganisms in seawater Igor Zivkovic, Jozef Stefan Institute, Slovenia		124 Poster spotlight: MO333, MO334, MO335	
Session Room B	...Joop Harmsen, Steven Droge					
	128 Prediction of very slow biodegradation of PAHs in soil and validation in a pilot of 25 years Rene Rietra, Alterra and Wageningen University, Netherlands		129 Linking bioavailability of complex mixture to toxicity changes to assess recovery of contaminated soils Sabrina Cipullo, School of Water, Energy and Environment, Cranfield Water Science Institute, UK		130 Impact of Biochar Additions to Soil on Contaminant Sorption and Plant Bioavailability William Doucette, Utah State University, USA	
Session Room C	...Ralph Rosenbaum, Heinz Stichnothe					
	134 The use of dynamic stock model to the definition of characterisation factors for biotic resources depletion Arnaud Hélias, Montpellier SupAgro, France		135 Accounting for soil quality effects of agricultural land management in LCA Lieselot Boone, Ghent University, Belgium		136 Poster spotlight: MO093, MO094, MO106	
Session Room D	...Bozo Zonja, Cristina Postigo, Kai Bester, Karin Wiberg					
	140 Optimization of Laccase Catalyzed Iodine Synthesis as Enzyme Based Disinfectant Gülten Yüksek, Universite de Sherbrooke, Turkey		141 Halogenated methanesulfonic acids in drinking water – Identification, standard synthesis, and analysis Daniel Zahn, Hochschule Fresenius, Germany		142 Poster spotlight: MO272, MO273, MO274	
Session Room E	...Territories, Nations and Sectors Alexis Laurent, Mélanie Douziech, Serenella Sala					
	146 LCA_WIND_DK: Temporally, geographically and technologically-sensitive life cycle inventories for the Danish wind turbine fleet Romain Besseau, Mines ParisTech, France		147 Assessing environmental impacts of individual households: A large-scale bottom-up LCA-model for Switzerland Andreas Froemelt, ETH Zurich, Switzerland		148 Poster spotlight: MO109, MO110, MO113	
Session Room M	...Andreas Focks, Thomas Preuss, Alpar Barsi					
	152 Integration of temperature-dependent TKTD kinetics in individual-based population modelling – A case study with <i>Chaoborus crystallinus</i> Tido Strauss, Research Institute gaic, Germany		153 Assessing lethal and sublethal effects from time variable exposure for different life-stages with the DEB model: An example for a Pyrethroid in rainbow trout Elke Zimmer, IBACON GmbH, Germany		154 Prediction of effects on chemicals on three-spined stickleback populations in mesocosms Viviane David, INERIS, France	
Session Room N	...and Impacts in the Environment Ana I Catarino, Maya Al Sid Cheikh, Farhan Khan					
	158 Analysis of tire wear particles in environmental samples using TED-GC-MS Paul Eisentraut, Bundesanstalt für Materialforschung und –prüfung, Germany		159 Determination of tire wear particles based on elemental composition Philipp Kloeckner, Helmholtz Centre for Environmental Research GmbH – UFZ, Germany		160 Are we speaking the same language? Towards a definition and categorization framework for environmental plastic debris Martin Wagner, Norwegian University of Science and Technology, Norway	
Session Room O	...Gregg Tomy, Graham Whale					
	164 Impacts of Oil Exposure on Mahi Embryos Christina Pasparakis, Rosenstiel School of Marine Sciences, USA		165 Crude oil impairs heart cell function in the pelagic mahi-mahi (<i>Coryphaena hippurus</i>) Rachael Heuer, University of Miami, USA		166 microRNA and messenger RNA networks in early life stages of pelagic and nearshore fish species exposed to Deepwater Horizon oil Daniel Schlenk, University of California-Riverside, USA	
Session Room P	Alternative Approaches to Animal Testing for Ecotoxicity Assessments Adam Lillicrap, Teresa Norberg-King, Mark Lampi					
	170 Ecological Threshold for Toxicological Concern (eco-TTC) – Applications for Environmental Risk Assessment in Various Contexts Michelle Embry, ILSI Health and Environmental Sciences Institute (HESI), USA		171 Mode of action diagnosis by normalized multiple endpoint assessment in zebrafish embryos Elisabet Teixido, Helmholtz Center for Environmental Research – UFZ GmbH, Germany		172 Poster spotlight: MO158, MO159, MO190	
★	...Rafael Mateo, Richard Shore					
Session Room Q	2:30 p.m.	2:35 p.m.	2:40 p.m.	2:50 p.m.	3:10 p.m.	
	177 Main scientific gaps on knowledge of NSAIDs [migratory] wildlife globally, and potential contribution of WTIG to CMS questions – Poster Spotlight MO459 Mark Taggart, University of the Highlands and Islands, UK	178 Main scientific gaps on knowledge of deliberate poisoning to [migratory] wildlife globally – Poster Spotlight MO460 Martin Odino, Independent Environmental Services Professional, Kenya	179 Questions and discussion	180 Regulatory view describing the extent to which [if any] regulation takes into account neighbouring country/regional use of compounds, accounts for how local use might affect migratory species, how field data on migratory species might feed into regulatory Rachel Sharp, EFSA – European Food Safety Authority, Italy	181 Panel discussion with audience and presenters focusing on how SETAC can interact with CMS usefully to provide scientific evidence and expertise	

COFFEE BREAK

COFFEE BREAK

COFFEE BREAK

MO | Monday Poster Presentations

Schedule

Setup	7:30 a.m.–08:30 a.m.
Poster Viewing	10:05 a.m.–10:50 a.m.
Poster Viewing	12:25 p.m.–1:55 p.m.
Poster Viewing	3:30 p.m.–4:15 p.m.
Poster Social	5:15 p.m.–6:15 p.m.
Take Down	6:15 p.m.–6:45 p.m.

Poster Corners

Fish model species in human and environmental toxicology (PC) | **Jessica Legradi, Jorke Kamstra, Riccardo Massei**

Discussion at 5:15 p.m.–5:45 p.m.

MOPC01 | Fish caging experiment as a tool for in situ assessment of neurotoxic effects of untreated wastewaters | **Bojana Mičić, Petnica Science Center/Faculty of Sciences, University of Novi Sad, Serbia**

MOPC02 | Toxicity analysis of treated sugar cane vinasse by integrated systems using gills of *Oreochromis niloticus* as model | **Ana Claudia de Castro Marcato, Sao Paulo State University – UNESP, Brazil**

MOPC03 | Assessing toxic effects in the fish Violet Goby (*Gobioides broussonnetii* – Gobiidae) from one of the most productive estuaries in Brazil | **Lilian Salgado, Universidade Federal do Paraná, Brazil**

MOPC04 | Does ozonation of the Aachen-Soers WWTP improve the water quality in the field? Caging experiments with juvenile rainbow trout and various biomarkers | **Yvonne Mueller, RWTH Aachen University, Germany**

MOPC5 | Environmental applications for medium-throughput, in vivo androgen disruptor identification with the RADAR assay | **Andrew Tindall, Watchfrog S.A., France**

MOPC6 | Evaluation of the toxicity of environmental samples collected near vineyard parcels on rainbow trout larvae (*Oncorhynchus mykiss*) and liver cell line RTL-W1 | **Shannon Weeks Santos, EPOC University of Bordeaux, France**

New Horizons in Particulate Polymer Analysis: Micro – and Nanoplastics and Tire Rubber Detection, Characterisation and Impacts in the Environment (PC) | **Ana I Catarino, Maya Al Sid Cheikh, Farhan Khan**

Discussion at 5:45 p.m.–6:15 p.m.

MOPC07 | Optimization and Automation of Raman Microspectroscopy for Microplastic Analysis | **Philipp Anger, Technical University of Munich, Germany**

MOPC08 | Preparation of model small microplastics and nanoplastics | **Gireeshkumar Balakrishnan Nair, IMMM LE MANS, France**

MOPC09 | Effects on humic substances and sediments on the sorption of anthropogenic chemicals to different MP particles | **Sven Huppertsberg, Hochschule Fresenius University of Applied Sciences, Germany**

MOPC10 | Micronized tire rubber: Abundance and distribution within microplastic litter of the Charleston Harbor Estuary, South Carolina, USA | **Rachel Leads, College of Charleston, USA**

MOPC11 | Crumb rubber in sports fields – Advances in environmental chemistry | **Dorte Herzke, NILU – Norwegian Institute for Air Research, Norway**

MOPC12 | Nanoplastics analysis with Nano-FTIR | **Michaela Meyns, Alfred Wegener Institute, Germany**

Environmental fate of emerging contaminants in the water cycle: Analytical challenges and engineered solutions (PC) | **Bozo Zonja, Cristina Postigo, Kai Bester, Karin Wiberg**

Discussion at 5:15 p.m.–5:45 p.m.

MOPC17 | Neonicotinoid insecticides in surface waters discharging into the Great Lakes of Southern Ontario, Canada | **Tamanna Sultana, Trent University, Canada**

MOPC18 | Occurrence and removal of antibiotics in municipal wastewater by conventional activated sludge (CAS) and membrane bioreactor (MBR) systems | **Karina Yew-Hoong Gin, National University of Singapore, Singapore**

MOPC19 | The effect of activated sludge conditions on micropollutants biodegradation and transformation products formation | **Lucia Gusmaroli, Catalan Institute for Water Research ICRA, Spain**

MOPC20 | Ciprofloxacin By-Products in Seawater Environment in the Presence and Absence of Gilt Head Bream | **Haizea Ziarrusta, University of the Basque Country UPV/EHU, Spain**

MOPC21 | Assessment of the occurrence and impact of polar pesticides in irrigation and drainage ditches at the Ebro River Delta cultivated area (NE Spain) | **Maria Vittoria Barbieri, Ins of Environ Assessment&Water Resch (IDAEA-CSIC), Spain**

MOPC22 | Degradation kinetics and degradation products of diclofenac with persulfate | **Kai Bester, Aarhus University, Denmark**

Mercury Biogeosciences – Fate, Effects and Policy (PC) | **Michael Bank, Séverine Le Faucheur, Nelson O'Driscoll, Joao Canario**

Discussion at 5:45 p.m.–6:15 p.m.

MOPC23 | Identifying, Characterising and Quantifying Atmospheric Mercury Sources Using Passive Air Sampling Networks | **Frank Wania, University of Toronto at Scarborough, Canada**

MOPC24 | Mercury trend as a possible result of changes in cod age distribution | **Anders Ruus, NIVA, Norway**

MOPC25 | Contributions from biomass burning to mercury emissions at Cape Point, South Africa | **Vernon Somerset, CPUT, South Africa**

MOPC26 | Building a predictive model for methylmercury photodemethylation in freshwater ecosystems | **Sara Klapstein, Acadia University, Canada**

MOPC27 | Polymer inclusion membranes followed by X-ray fluorescence analysis as a new methodology for mercury monitoring in natural waters at low concentration level | **Gemma Elias, University of Girona, Spain**

MOPC28 | Dissolved organic matter as a modifier of Hg bioavailability to phytoplankton | **Vera Slaveykova, University of Geneva, Switzerland**

Poster Sessions

Advances in environmental risk assessment of oil spills and offshore oil & gas operations (P) | **Vince Palace, Gregg Tomy, Graham Whale**

MO001 | An in-situ amphibian metamorphosis assay to evaluate oil spill-related toxicity in receiving freshwater systems | **Regina Krohn, University of Calgary, Canada**

MO002 | Applicability of risk based, tiered assessment of produced water discharge in Nigerian shallow offshore environment | **Mathijs Smit, Shell International, Netherlands**

MO003 | Assessment of the biological impact of using chemical dispersants to remediate oil spills in different environmental conditions using zebrafish embryos | **Amalia Orbea, University of the Basque Country, Spain**

MO004 | Behaviour and effects of a marine diesel oil in a semi-static exposure experiment using mussels (*Mytilus* spp.) from the Baltic Sea | **Raisa Turja, Finnish Environment Institute, SYKE, Finland**

MO005 | Biliary PAHs and enzymatic biomarkers in the teleost *Eugerres brasiliensis* along four tropical estuaries in the Brazilian Northeast | **Paulo Carvalho, UFPE – Universidade Federal de Pernambuco, Brazil**

MO006 | Bioaccumulation of Sulfur and Nitrogen Containing Hydrocarbons in Petroleum Substances | **Thomas Parkerton, ExxonMobil Biomedical Sciences Inc., USA**

MO007 | Biochemical biomarkers and histopathology in juvenile Solea senegalensis for early warning assessment of marine ecosystem health | **Manuel Soto, University of the Basque Country, Spain**

MO008 | Biomarker and gene transcription variability in perch in reference sites used for biomonitoring studies | **Lars Förlin, University of Gothenburg, Sweden**

MO009 | Cellular and tissue-level biomarkers in mussels (*Mytilus edulis*) sampled in two different study areas in the Northern Atlantic | **Denis Fernández, ESTACIÓN MARINA DE PLENTZIA. UPV/EHU, Spain**

MO010 | Cytotoxicity of the WAF of naphthenic North Sea crude oil with and without dispersant in hemocytes of the marine mussel *Mytilus galloprovincialis* (L.) | **Miren Cajarville, University of the Basque Country, Spain**

MO011 | Determination of inorganic cations and amines in wastewater, surface water, and neutralizing amine solutions by IC coupled with a single quadrupole MS | **Timothy Cross, Thermo Fisher Scientific, UK**

MO012 | Distribution and ecological risk assessment of palm stearin in coastal marine environments of Hong Kong after an accidental pollution in Pearl River Estuary, South China | **Kenneth Leung, The University of Hong Kong, Hong Kong**

MO013 | Ecological impacts of larvicidal oil on the marine ecosystem: Implications on its management | **Kenneth Leung, The University of Hong Kong, Hong Kong**

MO014 | Effects of a coastal oil spill on marine invertebrates and their potential to recover | **Sofia Silva, Instituto Politécnico de Leiria, Portugal**

MO015 | Effects of oil exposure on visual function in early life stage fishes | **Jason Magnuson, University of North Texas, USA**

MO016 | Effects of oil spill on coastal seaweed in the Arctic | **Susse Wegeberg, Aarhus University, Denmark**

MO017 | Effects of water accommodated fractions of crude oil on the Baltic Sea blue mussel *Mytilus trossulus* at different salinities | **Aino Ahvo, Finnish Environment Institute, Finland**

MO | Monday Poster Presentations

MO018 | Multiple biomarkers on the estuarine guppy *Poecilia vivipara* to monitor two Brazilian tropical estuaries | **Paulo Carvalho**, UFPE – Universidade Federal de Pernambuco, Brazil

MO019 | New methodology to determine BTEX in soil samples by HPLC-DAD | **Clóvis Lucio da Silva**, UFABC, Brazil

MO020 | Petroleum pollution of alluvial sediments near Sava river, Serbia | **Mila Ilic**, IChTM, Serbia

MO021 | Prey capture to male aggression: the role of ecologically relevant behaviours in the assessment of complex petroleum based contaminants | **Danielle Philibert**, University of Alberta, Canada

MO022 | Risk-Based Approach: Assessment of Offshore Discharge Waters | **Kirit Wadhia**, National Oilwell Varco (NOV), UK

MO023 | Risk-based assessment of produced water discharges – need for alignment | **Mathijs Smit**, Shell International, Netherlands

MO024 | Spatial and temporal analysis of the risks posed by total petroleum hydrocarbon and trace element contaminants in coastal waters of Kuwait | **Ernst Nicolaus**, Cefas Lowestoft Laboratory, UK

MO025 | Temperature-dependant toxicity of Napthenic North Sea crude oil WAF, dispersant and their mixture: Sea urchin bioassays | **Laura de Miguel**, University of the Basque country UPVEHU, Spain

MO026 | Temporal variability of acute toxicity of Produced Formation Water discharged from offshore platforms: The responses of sea bass (*Dicentrarchus labrax* L., 1758) larvae | **Livia Mariani**, CNR-IRSA, Italy

MO027 | Tentative identification of halogenated polycyclic aromatic hydrocarbons in biota | **Gregg Tomy**, Department of Fisheries & Oceans, Canada

MO028 | The experience with the use of biomarkers as Risk Indicators in Environmental Risk Assessment of oil based discharges offshore | **Steinar Sanni**, International Research Institute of Stavanger, Norway

MO029 | Tissue-level biomarkers and histopathological alterations in mussels (*Mytilus trossulus*) from the Baltic Sea exposed to water accommodated fractions of crude oil | **Manuel Soto**, University of the Basque Country, Spain

MO030 | Toxicity of diluted bitumen to freshwater fish and invertebrates | **Pierre Robidoux**, AGAT Laboratories, Ltd, Canada

MO031 | Toxicity of produced water from offshore oil production in Norway and corresponding polar and apolar fractions | **Andy Booth**, SINTEF Ocean, Norway

MO032 | Toxicokinetics of oil components in Arctic copepods | **Ida Beathe Øverjordet**, SINTEF Materials and Chemistry, Norway

MO033 | Two Dimensional Gas Chromatography for the analysis of polycyclic aromatic compounds and their alkylated homologues in environmental samples | **Gregg Tomy**, Department of Fisheries & Oceans, Canada

MO034 | Using the hagfish (*Myxine glutinosa*) to study biological effects of a wreck filled with chemical munitions | **Aino Ahvo**, Finnish Environment Institute, Finland

Wildlife ecotoxicology: Laboratory dosing studies to field population assessments (P) | **John Elliott**, **Veerle Jaspers**, **Emmanuelle Bonneris**, **Scott Glaberman**

MO035 | Seabird-derived contaminants and genotoxicity in Collembola from the Arctic | **Silje Marie Kristiansen**, University of Oslo, Norway

MO036 | Higher contaminants and poorer condition in an Antarctic avian top predator from 2001 to 2013 | **Katrine Borga**, Department of Biosciences, University of Oslo, Norway

MO037 | Evaluation of malformations induced by a hospital effluent of Toluca (Estado de México) in *Lithobates catesbeianus* | **Hariz Islas-Flores**, Universidad Autonoma del Estado de Mexico, Mexico

MO038 | Monitoring fish health in a densely populated catchment in Central Germany | **Mona Schweizer**, University of Tuebingen, Germany

MO039 | Multigenrational toxicity of Fipronil to *Folsomia candida* | **Vanessa Menezes-Oliveira**, University of São Paulo USP, Brazil

MO040 | Fipronil effects on freshwater benthic algal communities | **María Rosa Pino**, San Jorge University, Spain

MO041 | Use of organophosphorus insecticides in agriculture lands, in a simple test birds says please no! | **Martin Emilo Pereda Solis**, Universidad Juarez del Estado de Durango, Mexico

MO042 | Implementation of a worst-case landscape scenario for population modelling of a fungicide applied in cereals | **Magnus Wang**, WSC Scientific GmbH, Germany

MO043 | Biomonitoring and validation of non-invasive samples for the analysis of metals in freshwater turtles from mining areas | **Jennifer Pareja Carrera**, IREC-UCLM, Spain

MO044 | An analysis of important life stages, exposure routes and test endpoints in amphibians and coverage by existing risk assessment regulatory requirements for plant protection products, part 1 | **Cecilia Berg**, Uppsala University, Dept. of Environmental Toxicology, Sweden

MO045 | European common frog (*Rana temporaria*) larvae show subcellular responses under field-relevant *Bacillus thuringiensis* var. *israelensis* (Bti) exposure levels used in mosquito control | **Stefanie Allgeier**, University Koblenz-Landau, Germany

MO046 | Influence of salinity and temperature on tadpoles of *Xenopus laevis* | **Isabel Lopes**, University of Aveiro, Portugal

MO047 | Effects of the exposure of larvae of *Dendropsophus columbianus* (Anura: Hylidae) to waters contaminated by anthropogenic activities in a river basin of the Colombian andes | **Viviana Andrea Ramirez Castaño**, Universidad de Caldas, Colombia

MO048 | Risks for amphibians and reptiles by dermal exposure to pesticides | **Rachel Sharp**, EFSA – European Food Safety Authority, Italy

MO049 | Evaluating the Role of Fish as Surrogates for Amphibians in Ecological Risk Assessment | **Scott Glaberman**, University of South Alabama, USA

MO050 | Long-term survival of mancozeb exposed common vole populations from one to the following reproductive season | **Jan-Dieter Ludwigs**, Rifcon GmbH, Germany

MO051 | An analysis of important life stages, exposure routes and test endpoints in reptiles with regard to coverage by existing risk assessment regulatory requirements for pesticides | **Scott Weir**, Queens University of Charlotte, USA

MO052 | AmphiMove: Moving patterns and microhabitat selection of European anurans in agricultural landscapes | **Jan Sadowski**, Julius Kuehn Institute, Germany

MO053 | A quantitative AOP for activation of the aryl hydrocarbon receptor leading to early life stage mortality in amphibians and reptiles | **Anthony Schroeder**, University of Minnesota-Crookston, USA

MO054 | Do historically metal-exposed amphibian populations acquire resistance to lethal levels? | **Isabel Lopes**, University of Aveiro, Portugal

MO055 | Assessment of metal contamination levels and stress responses of endangered sea turtles of São Tomé and Príncipe | **Marco Lemos**, Instituto Politécnico de Leiria, Portugal

MO056 | Ecotoxicology of Africa's three largest reptiles: POPs, metals, eggs, and eggshells | **Hindrik Bouwman**, North-West University, South Africa

MO057 | Improving knowledge flow: From consumer to environmental risk assessment | **Laura Villamar Bouza**, EFSA – European Food Safety Authority, Italy

MO058 | Increasing salinisation effects on *Pelophylax perezi* populations – Could historical exposure drive effects? | **Sara Costa**, Universidade de Aveiro, Portugal

MO059 | Wildfires effects on aquatic invertebrates organisms with in situ bioassays | **Nelson Abrantes**, University of Aveiro, Portugal

MO060 | Estrogenic effects of an Organophosphorous Flame Retardant (TCPP) on Edible Sea Urchin “*Paracentrotus lividus*” | **Pedro López**, University of Vigo, Spain

MO061 | Short-term effects of fluoxetine exposure on biomarker and behavioural responses of an estuarine fish | **Irina Duarte**, MARE – Marine and Environmental Sciences Centre, Portugal

MO062 | Assessment of PCDD/Fs, dioxin-like PCBs and PBDEs in Mediterranean striped dolphins | **Francesca Capanni**, University of Trieste, Italy

MO063 | Assessment of POPs in stranded sperm whales (*Physeter macrocephalus*) from the Mediterranean Sea | **Alice Bartalini**, University of Siena, Italy

MO064 | Biochemical and molecular responses to organic contaminants in bottlenose dolphins (*Tursiops truncatus gephyreus*) from southern Brazil | **Bárbara Righetti**, Universidade Federal de Santa Catarina, Brazil

MO065 | Monitoring Eleonora's falcon conservation status both at its breeding and non-breeding grounds, using biological (stress indices) and environmental data | **Vasiliki Tsarpali**, University of Patras, Greece

MO066 | Optimising design and analysis of acute effect field studies | **Ralf Dittrich**, Tier3 Solutions GmbH, Germany

MO067 | Assessing impacts of legacy pollutants on wildlife of the Trinity River (Texas, USA) using Neotropical Cormorants as indicator species | **Miguel Mora**, Texas A&M University, USA

MO068 | Tracking the effects of a neonicotinoid insecticide on songbird migration | **Christy Morrissey**, University of Saskatchewan, Canada

MO069 | A synthesis of the interactions between anticoagulant rodenticides and wildlife | **Richard Shore**, Centre for Ecology & Hydrology (NERC), UK

MO070 | Anticoagulant rodenticides in red kites (*Milvus milvus*) in Britain | **Richard Shore**, Centre for Ecology & Hydrology (NERC), UK

MO071 | Environmental determinants of the exposure to anticoagulant rodenticides in non-target species | **Jhon López-Perea**, Instituto de Investigación en Recursos Cinegéticos, Spain

MO072 | Four years of NewRaptor: Results from in ovo exposure in model species and field sampling in raptors | **Veerle Jaspers**, Norwegian University of Science & Technology, Norway

MO073 | The potential of feathers as a biomonitoring tool for fluoxetine in wild birds | **Sophia Whitlock**, Environment Department, University of York, UK

MO074 | Field-effect studies as a suitable method to assess effects of plant protection products on free-living common voles (*Microtus arvalis*): A case study with the fungicide iprodione | **Silke Steiger**, BASF SE, Agrarzentrum Limburgerhof, Germany

MO075 | Monitoring NSAIDs in carrion and avian scavengers from Spain: Preliminary results after diclofenac registration for veterinary use | **Rafael Mateo**, IREC-CSIC – UCLM, Spain

MO | Monday Poster Presentations

MO076 | Different approaches comparison for evaluation of hypopharyngeal glands (HPG) in Honeybees (*Apis mellifera* L.) | **Natalia Lemańska**, *Institute of Industrial Organic Chemistry, Branch Pszczyna, Poland*

MO077 | Bird and mammal focal species for pesticide risk assessment in rice | **Martin Vallon**, *Rifcon GmbH, Germany*

MO078 | Non-invasive assessment by feathers of lead exposure and its relationship with stress hormones in bearded vultures from the Alps | **Rafael Mateo**, *IREC-CSIC - UCLM, Spain*

MO079 | Post mortem stability of phase I and II biotransformation enzymes in the liver of kelp gull *Larus dominicanus* | **Karim Hahn Luchmann**, *Santa Catarina State University, Brazil*

MO080 | Investigating thyroid disrupting effects of organohalogenated contaminants in White-tailed eagle nestlings | **Mari Løseth**, *The Norwegian University of Science and Technology, Norway*

MO081 | Assessment of exposure and effects of Hg levels in feathers of White-tailed eagles (*Haliaeetus albicilla*) and Northern goshawks (*Accipiter gentilis*) nestlings from Norway | **Pilar Gómez-Ramirez**, *University of Murcia, Spain*

MO082 | Thyroid-related gene expression, hormones, and thyroid gland histology in American kestrels exposed in ovo to two persistent organic pollutants, SCCPs and TBBPA-BDBPE | **Alexander MacLeod**, *University of Maryland, College Park, USA*

MO083 | Bioaccumulation of metals in bats: Non-lethal vs lethal sampling to assess risk | **Tiago Natal da Luz**, *University of Coimbra, Portugal*

MO084 | Metallic element composition of egg contents and eggshells of the Kelp Gull *Larus dominicanus* | **Jan van Aswegen**, *North West University (Potchefstroom Campus), South Africa*

MO085 | Heavy metals concentrations in Mediterranean Osprey eggs: Variations by location, habitat and egg constituent part | **Stefania Ancora**, *University of Siena, Italy*

MO086 | Interactive effects of vitamin E and BDE-47 yolk supplementation on morphology and oxidative status of yellow-legged gull embryos | **Beatrice De Felice**, *Università degli Studi di Milano, Italy*

MO087 | Sensitivity of freshwater pearl mussel juveniles (*Margaritifera margaritifera*) to different environmental and contamination factors | **Tiare Belamy**, *University of Bordeaux, France*

MO088 | Using population modelling to reduce uncertainty – an example of a herbicide | **Magnus Wang**, *WSC Scientific GmbH, Germany*

IG **MO089** | SETAC Wildlife Toxicology Interest Group | **John Elliott**, *Environment Canada, Canada*

LCIA method developments in a global perspective: Status and outlook (P) | **Alexis Laurent, Rosalie Van Zelm, Ralph Rosenbaum, Heinz Stichnoth**

MO090 | A tool to integrate consumer and environmental exposure in life cycle impact assessment | **Olivier Jolliet**, *University of Michigan, USA*

MO091 | Towards the integration of an Agent-based Model into LCA framework to assess dynamic indoor air quality | **Alice Micolier**, *University of Bordeaux, France*

MO093 | Adding the resource dimension to the WULCA framework on assessing freshwater use in LCA | **Ralph Rosenbaum**, *National Research Institute of Science and Technology for Environment and Agriculture - Irstea, France*

MO094 | Considering water and soil conservation works in Life Cycle Assessment: Focus on contour ridges and erosion impacts | **Meriem Jouini**, *Montpellier SupAgro, France*

MO095 | Impact of heavy metals on human toxicity using LCA: A case study for Walloon corn | **Sylvie Gros Lambert**, *University of Liège - Chemical Engineering, Belgium*

MO097 | Comparing ProScale Hazard Factors with USEtox Effect Factors for human toxicity | **Tomas Rydberg**, *IVL Swedish Environmental Research Institute, Sweden*

MO098 | Integrating the Use Phase Impacts of Building Materials into Near-Field LCA Characterization | **Olivier Jolliet**, *University of Michigan, USA*

MO099 | Combined use of Mixed-Integer Optimisation and Thermodynamic, Molecular and Charge Density attributes for predicting Life Cycle Production Impacts of Chemicals | **Raul Calvo-Serrano**, *Imperial College London, UK*

MO100 | Development of USEtox characterisation factors for micropollutants in effluents | **Emmanuel Maillard**, *ELSA-PACT Industrial Chair, France*

MO101 | Assessment of freshwater ecotoxicity with USEtox | **Marie-Claire Lot**, *CEHTRA, France*

MO102 | Advancing nutrient modelling in eutrophication methods for life cycle impact assessment | **Ashley Edelen**, *ORISE, USA*

MO103 | Land Use Change comprehensive framework in LCA for microalgae cultivation systems as emerging production option in the bio-economy | **Diego Marazza**, *University of Bologna, Italy*

MO104 | Application of LCIA water use methods to renewable energy systems in Spain | **Daniel Garrain**, *CIEMAT, Spain*

MO105 | Identification of methodological challenges remaining in the assessment of a water scarcity footprint | **Paula Quinteiro**, *University of Aveiro, Portugal*

MO106 | Filling the Gap of Overfishing in LCIA: Eco-factors for Global Fish Resources | **Regula Keller**, *Zurich University of Applied Sciences, Switzerland*

MO107 | Constructing life cycle inventories for the hydroelectric sector in Peru: Methodological considerations and environmental impacts | **Ian Vázquez-Rowe**, *Pontifical Catholic University of Peru, Peru*

MO108 | Global scale characterization factors for freshwater eutrophication from nitrogen and phosphorus emissions to water and soil | **Rosalie Van Zelm**, *Radboud University, Netherlands*

Building of large-scale inventories of emissions and resources and applications for environmental footprints of territories, nations and sectors (P) | **Alexis Laurent, Mélanie Douziech, Serenella Sala**

MO109 | Carbon and material footprint of consumption in Flanders – an input-output based assessment | **An Vercalsteren**, *VITO NV, Belgium*

MO110 | A cross-country analysis of relationship between economic structural change and CO2 emissions | **Kayoko Shironitta**, *Kyushu University, Japan*

MO111 | Influence of substance coverage on impacts from the electricity sector | **Alexandra Leclerc**, *DTU, Denmark*

MO113 | Mapping the carbon, air pollution, and biodiversity footprints of nations: A GIS + global supply chains | **Keiichiro Kanemoto**, *Shinshu University, Japan*

MO114 | LCA data machine applied | **Andreas Ciroth**, *GreenDelta, Germany*

MO115 | Static and dynamic modeling of high performance buildings: Comparison of average and marginal electricity mixes, a consequential effect on LCA results | **Harold Rickenbacker**, *University of Pittsburgh, USA*

MO116 | Life cycle framework for environmental assessment of public transport systems | **Amar Shinde**, *Indian Institute of Technology Bombay, India*

MO117 | Environmental impact assessment of rail freight intermodality in Belgium using the Life Cycle Assessment methodology | **Sylvie Gros Lambert**, *University of Liege, Belgium*

Modelling and monitoring of pesticides fate and exposure in a regulatory context (P) | **Bernhard Gottesbueren, Laura Padovani, Giovanna Azimonti**

MO119 | Quantifying visual assessment of kinetics – Development of an objective criterion to support visual assessment of SFO fits of parent soil degradation | **Johannes Witt**, *Bayer AG, Germany*

MO120 | "Southside" – Bridging the hemispheres – Global use of field trials based on ecoregion similarities between New Zealand, Chile and Europe | **Bernhard Gottesbueren**, *BASF SE, Germany*

MO121 | Residues of currently used pesticides in Central Europe arable soils: Status quo, reasons and consequences | **Lucie Bielská**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

MO122 | Does the TOXSWA model simulate reliable concentrations in FOCUS surface water scenarios for a single segment water layer? | **Wim Beltman**, *Alterra Wageningen UR, Netherlands*

MO123 | Recent development of approaches for quantitative use of surface water monitoring data in aquatic exposure assessments | **Wenlin Chen**, *Syngenta Crop Protection, LLC, USA*

MO124 | Multi-year evaluations in the FOCUS Surface Water assessment – results of beta testing | **Denis Weber**, *Eurofins Regulatory AG, Switzerland*

MO125 | Spatial and temporal explicit catchment modelling in aquatic risk assessment using the modular framework CMF | **Sebastian Multsch**, *DR. KNOELL CONSULT GmbH, Germany*

MO126 | Determination of runoff and drainage triggers for PEC surface water using automated simulation with FOCUS models | **Barbara Kind**, *WSC Scientific GmbH, Germany*

MO127 | Quantitative exploitation of passive sampler data for pesticide mass flow calculation in catchments and exposure risk evaluation | **Tom Galle**, *Luxembourg Institute of Science and Technology, Luxembourg*

MO128 | Spatially distributed environmental fate modelling of terbuthylazine in a mesoscale agricultural catchment using passive sampler data | **Tom Galle**, *Luxembourg Institute of Science and Technology, Luxembourg*

MO129 | Recalibration and cross-validation of pesticide trapping efficiency equations for vegetative filter strips (VFS) using additional experimental data | **Stefan Reichenberger**, *DR. KNOELL CONSULT GmbH, Germany*

MO130 | Vanda – Visualize and Assess: A tool for the pesticide risk mitigation in surface water | **Francesco Galimberti**, *ICPS International Centre for Pesticides and Health Risk Prevention, Italy*

MO131 | Selecting application dates for UK higher tier drainflow modelling: Comparing the FOCUS PAT and CRD PAT rules, and assessing the role of soil trafficability | **Jacqui Carnall**, *Cambridge Environmental Assessments, UK*

MO132 | Considering diffuse urban and agricultural sources of pesticides at the landscape and catchment scale | **Jacqui Carnall**, *Cambridge Environmental Assessments, UK*

MO133 | Calibration of passive samplers for the monitoring of chlordecone in French Caribbean rivers | **Hélène Budzinski**, *University of Bordeaux, France*

MO | Monday Poster Presentations

MO134 | Temporal patterns of pesticide residues in four major river basins in Korea | **Chansub Kim**, *National Institute of Agricultural Sciences, South Korea*

MO135 | Occurrence of 14 representative pesticides in surface and ground waters of the State of São Paulo, the biggest sugarcane producer in Brazil | **Cassiana Raimundo**, *UNICAMP, Brazil*

MO136 | Exposure scenarios for aquatic risk assessment of pesticides in Brazil | **Bernhard Jene**, *BASF SE, Germany*

MO137 | Identification of Herbicide Source Areas and Spatial Variability of Dominating Transport Processes in a High Agricultural Intensity Catchment | **Hendrik Rathjens**, *Stone Environmental, Inc., USA*

MO138 | Pesticides in water and surface sediments from Douro River estuary (Portugal) – assessment of environmentally relevant mixtures using acute toxicity bioassays | **Maria João Rocha**, *ICBAS U.Porto, CIIMAR CIMAR LA, Portugal*

MO139 | Monitoring programme to investigate the presence of myclobutanil and its soil metabolite in Italian groundwater following use in pome fruit, stone fruit and vineyards | **Claudia Vaj**, *Dow AgroSciences Italia s.r.l., Italy*

MO140 | Identification of areas at risk of groundwater leaching in Italy for the fumigant 1,3-dichloropropene | **Claudia Vaj**, *Dow AgroSciences Italia s.r.l., Italy*

MO141 | Development of an European Tier 3+ Spatially Distributed Modelling Framework | **Gerco Hoogeweg**, *Waterborne Environmental, Inc., USA*

MO142 | Influence of aquifer parameters on groundwater residue concentrations | **Florian Hegler**, *DR. KNOELL CONSULT GmbH, Germany*

MO143 | Implications of Dataset Selection and GIS Processing on Modelling | **Gerco Hoogeweg**, *Waterborne Environmental, Inc., USA*

MO144 | Combining specific and public groundwater monitoring data as higher tier for pesticide regulatory risk assessment | **Arnaud Boivin**, *ANSES, France*

MO145 | Minimal variation in input parameters highly influences PEARL and PELMO results: How can these results be trustable? | **Sonia Ullucci**, *ICPS, Italy*

MO146 | European regulatory network on pesticide groundwater monitoring | **Anne Louise Gimsing**, *The Danish Environmental Protection Agency, Denmark*

MO147 | Overview of measured wash-off factors from experiments suitable to derive a refined input for FOCUS modelling | **Gerald Reinken**, *Bayer AG, Research & Development, Crop Science, Germany*

MO148 | Leaching and plant uptake of trifluoroacetic acid (TFA) under cropped outdoor conditions | **Gerald Reinken**, *Bayer AG, Research & Development, Crop Science, Germany*

MO149 | Investigating the variance of edge-of-field deposits of spray drift | **Henk Jan Holterman**, *Wageningen University & Research, Netherlands*

MO150 | Exposure assessment for edge-of-field watercourses next to tree nurseries regarding spray drift deposits | **Henk Jan Holterman**, *Wageningen University & Research, Netherlands*

MO151 | Investigating the exposure of residents to pesticides due to airborne spray drift | **Henk Jan Holterman**, *Wageningen University & Research, Netherlands*

MO152 | Risk assessment for consumers of case formulations used in Plant Protection Products. Case study of polymers | **Philippe Adrian**, *CEHTRA SAS, France*

MO153 | Dietary exposure to pesticide residues: The big picture | **Laura Villamar Bouza**, *EFSA – European Food Safety Authority, Italy*

MO154 | Exposure and Risk Assessment for Agricultural Applicator to Insecticide Flubendiamide during Cabbage Cultivation using Whole Body Dosimetry | **Jeong-Han Kim**, *Seoul National University, South Korea*

MO155 | Multi-year FOCUS Surface Water calculations: What do they mean for real regulatory cases? | **Dieter Schaefer**, *Bayer Crop Science, Germany*

MO156 | Effectiveness of grass buffer strips in reducing Spinosad runoff | **Stefan Otto**, *Italian National Research Council, Italy*

MO157 | EFSA's innovative guidance on the establishment of the residue definition for dietary risk assessment | **Renata Leuschner**, *EFSA – European Food Safety Authority, Italy*

Alternative Approaches to Animal Testing for Ecotoxicity Assessments (P) | Adam Lillcrap, Teresa Norberg-King, Mark Lampi

MO158 | Investigations on the bioconcentration of xenobiotics in the freshwater amphipod *Hyalella azteca* | **Christian Schlechtriem**, *Fraunhofer IME, Germany*

MO159 | Assessing Differences in Sensitivity to Aromatase Inhibitors Among Freshwater Fish Species | **Jonathon Doering**, *US EPA, USA*

MO160 | Fish scales as a tool for temporal biomonitoring of trace element concentrations | **Daivide Vignati**, *CNRS, France*

MO161 | Assessing differences in sea turtle organ sensitivity using cell-based toxicity assays | **Kimberly Finlayson**, *Griffith University – Smart Water Research Centre, Australia*

MO162 | Comparison of rat liver S9 to an animal-free alternative ewoS9R in the Ames fluctuation assay | **Julia Brendt**, *RWTH Aachen University, Germany*

MO163 | QSAR: A predictive approach for electronic cigarettes toxicological assessment | **Daniele Zarini**, *University of Insubria, Italy*

MO164 | Evaluation of QSAR models for daphnia and fish chronic toxicities of human pharmaceuticals | **Takashi Yamada**, *National Institute of Health Sciences, Japan*

MO165 | Optimization and Accessibility of the Eco – Database and the Ecotoxicological Threshold of Concern (ecoTTC) tool | **Ryan Otter**, *Middle Tennessee State University, USA*

MO166 | Using toxicokinetic and toxicodynamic modelling to predict effects of chronic toxicity on rodent growth based on in vitro assays | **Thomas Martin**, *Environment Department, University of York, UK*

MO167 | Screening of metabolic – and neurotoxicity of environmental chemicals using *C. elegans* and transgenic zebrafish models | **Nivedita Chatterjee**, *University of Seoul, South Korea*

MO168 | In vitro effects of two pesticides on the motility and viability of bovine spermatozoa | **Isabel Lopes**, *University of Aveiro, Portugal*

MO169 | Assessing the bioaccumulation potential of several pharmaceuticals using fish S9 and hepatocyte assays | **Lisa Constantine**, *Pfizer, Inc., USA*

MO170 | Chemoavailability of Organic Electrophiles – A Nonanimal Approach to Identify Candidates for Reactive Toxicity | **Alexander Böhme**, *UFZ – Helmholtz Centre for Environmental Research, Germany*

MO171 | Local Electrophilicity Describes Experimental Glutathione Reactivity and Aquatic Toxicity toward *Tetrahymena pyriformis* | **Gerrit Schuurmann**, *Helmholtz centre for environmental research – UFZ, Germany*

MO172 | Using mechanisms of toxic action to classify and predict ester ecotoxicity | **Pascal Bicherel**, *KREATIS, France*

MO173 | Nanosecond pulsed electric field incorporation technique to predict molecular mechanisms of teratogenicity and developmental toxicity on fish embryos | **Koji Arizono**, *Prefectural University of Kumamoto, Japan*

MO174 | Moving 3D in vitro intestinal models forward: Transcriptomic characterization of the RTgutGC cell line | **Laura Langan**, *School of Biological Sciences Plymouth University, UK*

MO175 | Impact of test concentration on the in vitro intrinsic clearance using trout liver S9 fractions to predict the bioaccumulation potential of fragrance chemicals | **Heike Laue**, *Givaudan Schweiz AG, Switzerland*

MO176 | Biological effects of 3 metals on "D" larvae of japonese oyster *Crassostrea gigas* | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

MO177 | Toxicity effects caused by exposure to Dichlorvos in organisms of different trophic levels | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

MO178 | Characterising estrogenic activity of arctic char tissue extracts in two fish in vitro bioassays | **Karina Petersen**, *NIVA – Norwegian Institute for Water Research, Norway*

MO179 | Ultrasound: A novel approach to non-lethally measure hepatosomatic index in sentinel fish for environmental monitoring programs | **Vince Palace**, *IISD-Experimental Lakes Area, Canada*

MO180 | Weight of evidence for fish acute toxicity: A Bayesian network modelling approach | **Jannicke Moe**, *Norwegian Institute for Water Research (NIVA), Norway*

MO181 | Divergent immunomodulatory effects of cadmium between two murine innate immune cell models in vitro, macrophages and mast cells | **Diego Garcia**, *Wageningen University & Research, Netherlands*

MO182 | Changes in protein expression of primary sea turtle cells exposed to contaminants indicate the potential for in vitro proteomics as a high throughput tool to support biomarker discovery | **Stephanie Chaousis**, *Griffith University – Smart Water Research Centre, Australia*

MO183 | Baseline vs. Reactive Toxicity toward the Nematode *C. elegans* as Alternative Bioassay | **Sumaira Saleem**, *UFZ Helmholtz Centre for Environmental Research, Germany*

MO184 | Oxidative Activation of Pro-Electrophiles Mediated by an Fe-loaded Zeolite – A Nonanimal Tool for Mimicking Phase I Metabolism | **Johannes Moldrick**, *Helmholtz centre for environmental research – UFZ, Germany*

MO185 | Integrated assessment of aquatic ecotoxicity for regulatory purposes | **Annegret Biegel-Engler**, *German Environment Agency – UBA, Germany*

MO186 | An integrated testing strategy to fill data gaps for environmental risk assessment of iso-alcohols | **Gail Bragin**, *ExxonMobil Biomedical Sciences, Inc., USA*

MO187 | Looking for an alternative to glyphosate-based herbicides | **Dominik Rünzler**, *University of Applied Sciences Technikum Wien, Austria*

MO188 | Chemoassay Profiling of Salicylates to Assess Their Reactive Toxicity | **Alexander Böhme**, *UFZ – Helmholtz Centre for Environmental Research, Germany*

MO189 | Membrane-water partition coefficients to aid ionogenic surfactant risk assessment | **Steven Droge**, *University of Amsterdam/IBED Institute, Netherlands*

MO190 | The Xenopus Embryonic Thyroid Signalling Assay (XETA) for assessment of effluents contamination in thyroid active molecules | **Andrew Tindall**, *Watchfrog S.A., France*

MO | Monday Poster Presentations

MO191 | Advances on locomotion detection of *Daphnia magna*, *Artemia franciscana* and *Paramecia caudatum* | **Elias Salzer**, *University of Applied Sciences Technikum Wien, Austria*

MO192 | Validation of the in silico prediction tool for toxicity of Algae by pharmaceuticals in environment | **Akihiko Hirose**, *National Institute of Health Sciences, Japan*

MO193 | SeqAPASS to Evaluate Conservation of High-Throughput Screening Targets Across Non-Mammalian Species | **Carlie LaLone**, *U.S. EPA, USA*

MO194 | In silico site-directed mutagenesis informs species-specific predictions of chemical susceptibility derived from the Sequence Alignment to Predict Across Species Susceptibility (SeqAPASS) tool | **Jonathon Doering**, *US EPA, USA*

MO195 | Survival and Teratogenic Evaluation of 91 compounds with environmental impact | **Simone Calzolari**, *ZeClinics, Spain*

MO196 | MPA – an alternative for the standard procedure of Ames Test | **José Ricardo Rossetto Martins Zwarg**, *School of Technology, UNICAMP, Brazil*

IG **MO197** | SETAC Animal Alternatives Interest Group | **Adam Lillicrap**, *NIVA Norwegian Institute for Water Research, Norway*

Bioavailability and realistic risk assessment of organic chemicals (P) | **John Parsons, José Julio Ortega-Calvo, Joop Harmsen, Steven Droge**

MO198 | The necessity of OASIS bead and polyethersulfone membrane extraction for the Polar Organic Chemical Integrative Samplers (POCIS) calibration: A case study for alkylphenol monitoring in produced water | **Ludovica Silvani**, *Norwegian Geotechnical Institute, Norway*

MO199 | In situ passive sampling methods to measure freely dissolved concentration of PAHs in contaminated soil: Comparison with ex situ measurements and evaluation over one year | **Thomas Bucheli**, *Agroscope ART, Switzerland*

MO200 | Bioaccumulation of native and spiked p,p'-DDE by *Eisenia andrei* in γ -sterilized and non-sterilized soils | **Lucia Skulcova**, *Masaryk University, Czech Republic*

MO201 | Dissipation in soil and bioavailability to earthworm of two fungicides: Comparison of laboratory and field experiments | **Sylvain Bart**, *INRAAgroParisTech, France*

MO202 | Experimental assessment of specific plant uptake factor of 1,2,4-triazole with different concentrations in wheat | **Raquel Faraldo-Alonso**, *Innovative Environmental Services (IES) Ltd, Switzerland*

MO203 | LFER Models for Partition Coefficients of Environmental Concern | **Ralph Kühne**, *Helmholtz centre for environmental research – UFZ, Germany*

MO204 | Influence of grain size on the bioavailability and bioaccumulation of sediment-associated cypermethrin to benthic invertebrates | **Jing You**, *Jinan University, China*

MO205 | Effect of suspended particle on polycyclic aromatic hydrocarbon (PAH) bioaccumulation by zebrafish (*Danio rerio*) | **Yawei Zhai**, *School of Environment, Beijing Normal University, China*

MO206 | Methods for Deriving Site-Specific Relative Bioavailability Factors from Animal Bioavailability Data | **Brian Magee**, *ARCADIS, USA*

MO207 | Accurate determination of adsorption coefficients for low adsorbing compounds – from experiment to result evaluation | **Thomas Richter**, *BASF SE, Agrarzentrum Limburgerhof, Germany*

MO208 | Evaluation of the swimming behavior and tactic response to atrazine of the *Pseudomonas* sp. strain ADP | **Ludovica Rolando**, *Instituto de Recursos Naturales y Agrobiología de Sevilla, Italy*

MO209 | The influence of biochar on the toxic effects of imidacloprid to the lifecycle parameters of *Eisenia fetida* | **Ngitheni Nyoka**, *University of the Free State, South Africa*

MO210 | Chlordecone elimination kinetics in ewes | **Agnès Fournier**, *Université de Lorraine UL, France*

MO211 | Development and validation of QuEChERS extraction methods with or without enzymatic pretreatment to analyze chlordecone and its metabolites by HPLC-MS/MS in urine and feces of ewes | **Agnès Fournier**, *Université de Lorraine UL, France*

MO212 | Organic Contaminants in High Mountain Areas: Where and When to find them?? | **Oliver Machate**, *Helmholtz centre for environmental research – UFZ, Germany*

MO213 | Pesticide occurrence in different apicultural matrices (honey bees, wax and pollen) | **Maria Jesús Andrés Costa**, *Universitat de Valencia, Spain*

MO214 | Adaptation requirements for the use of measured BCF for a realistic risk assessment of organic chemicals | **Sandrine Andres**, *INERIS, France*

MO215 | Assessing risks from PBT substances in surface waters: Possible alternatives to biota monitoring? | **Pippa Curtis-Jackson**, *Environment Agency (England and Wales), UK*

MO216 | Risk Associated with Alternative Cleaning Method for Carrot | **Priscilla Abara**, *Federal University of Technology Owerri, Nigeria*

Environmental risk assessment in time and space – new approaches to deal with ecological complexity (P) | **Alessio Ippolito, Thomas Preuss, Domenica Auteri, Ivo Roessink**

MO218 | Uncertainty concepts and misconceptions for landscape scale risk assessment | **Pernille Thorbek**, *Syngenta, UK*

MO219 | Concept for a regional geospatial landscape analyses to predict site specific vegetation covers | **Andreas Toschki**, *Research Institute gaia, Germany*

MO220 | B-Rice: Bird focal species identification in rice paddy | **Flavio Marchetto**, *ICPS, Italy*

MO221 | A process-based population model for algae | **Maïke Habekost**, *BASF Corporation, Germany*

MO222 | Population dynamics of a soil arthropod simulated using an individual based population model and established fate model data | **Dirk Nickisch**, *Rifcon GmbH, Germany*

MO223 | Dynamic modelling of fluxes of weathered polychlorinated biphenyls (PCBs) in soil: Column experiments vs. modelling approaches in realistic environmental conditions | **Chiara Maria Vitale**, *University of Insubria, Italy*

MO224 | Assessing the trait-based ecological vulnerability of aquatic invertebrates for phenol | **Jinhee Park**, *Gwangju Institute of Science and Technology, South Korea*

MO225 | Assessing and managing food-web effects of Plant Protection Products | **Klaus Swarowsky**, *German Environment Agency (UBA), Germany*

MO226 | Compensating for ecological risks of pesticides | **Klaus Swarowsky**, *German Environment Agency UBA, Germany*

Fish model species in human and environmental toxicology (P) | **Jessica Legradi, Jorke Kamstra, Riccardo Massei**

MO228 | Historical control data of the optimized Zebrafish Embryo Developmental Toxicity Assay (ZEDTA) | **Marysia Tobor-Kaplon**, *Charles River Laboratories Den Bosch, Netherlands*

MO229 | Optimization of the Zebrafish Embryo Developmental Toxicity Assay (ZEDTA) | **Marysia Tobor-Kaplon**, *Charles River Laboratories Den Bosch, Netherlands*

MO230 | Reliability of ecotoxicological studies in fish | **Hannah Wünnemann**, *Bavarian Environment Agency, Germany*

MO231 | Assessment of the relationship between heavy metal bioaccumulation and biomarker responses in Japanese dace inhabit in heavy metal contaminated river | **Hisato Takeuchi**, *Toyo University, Japan*

MO232 | Micronucleus test to evaluate effects of 4 metals on DNA damage of zebrafish *Danio rerio* | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

MO233 | Endocrine disruption effects of bisphenol S and bisphenol SIP in adult zebrafish (*Danio rerio*) | **Kyunghee Ji**, *Yongin University, South Korea*

MO234 | Oxidative Stress Induced by PAH Metabolism: Comparing Three Exposure Routes in Red Drum, Florida Pompano, and Southern Flounder to DWH surrogate oil | **Dana Wetzel**, *Mote Marine Laboratory, USA*

MO235 | Impact of PAH/oxy-PAH mixtures on heart development in zebrafish | **Virginia Cunha**, *Karolinska Institutet, Sweden*

MO236 | Induction of developmental cardiotoxicity in rainbow trout (*Oncorhynchus mykiss*) following PAH mixture exposure – new insights using an integrated OMICS approach | **Andreas Eriksson**, *University of Jyväskylä, Finland*

MO237 | Assessment of the developmental cardiotoxicity of individual PAHs using integrated OMICS | **Cyril Rigaud**, *University of Jyväskylä, Finland*

MO238 | Developmental Toxicity of a Non-steroidal Anti-inflammatory Drug (Acetaminophen), in African Catfish (*Clarias gariepinus*) embryos | **Lawrence Ezemonye**, *University Benin, Nigeria*

MO239 | In vitro approach for the identification of early warning biomarkers, related to exposure to PBDEs, in human and marine systems: Oxidative stress, toxicity and cell cycle modulation | **Concetta Messina**, *UniPa, Italy*

MO240 | In silico estimate of affinity constants for perfluorinated compounds in rainbow trout (*Oncorhynchus mykiss*) proteins | **Davide Degli Esposti**, *Irstea, France*

MO241 | Impact of metformin on zebrafish (*Danio rerio*) embryos | **Susanna Mieck**, *University of Heidelberg, Germany*

MO242 | Pyrogallol and its structurally related compounds on animal cytochrome c oxidase activity | **Yong-Chan Kim**, *Kyungpook National University, South Korea*

MO243 | Exposure to environmental concentrations of Triclosan induces oxidative stress and genotoxicity on zebrafish (*Danio rerio*) embryos | **Camilla Carla Parenti**, *University of Milan, Italy*

MO244 | Comparative study of acute toxicity of a *Microcystis aeruginosa* bloom containing microcystin-LR on common carp *Cyprinus carpio* and Wistar rat | **Zaidi Hadjer**, *Laboratory of Biodiversity and Ecosystem Pollution, University of El Tarf, Algeria*

MO245 | Subchronic toxicity of a *Microcystis aeruginosa* bloom extract containing mainly the microcystin-LR congener on the common carp *Cyprinus carpio* | **Riad Bordj**, *Laboratory of Biodiversity and Ecosystem Pollution, University of El Tarf, Algeria*

MO | Monday Poster Presentations

- MO246** | Diluted bitumen vs. conventional crude oil: Effects of developmental exposure on first- and second-generation zebrafish | **Danielle Lyons**, *University of Alberta, Canada*
- MO247** | Effect of skatole and its metabolites on piscine Phase I metabolism | **Vladimir Zlabek**, *University of South Bohemia in Ceske Budejovice, Czech Republic*
- MO248** | Linkage of gene expression patterns with in vivo endpoints: Gaining deeper insights | **Armin Zenker**, *University of Appl. Sc. Northwestern Switzerland, Switzerland*
- MO249** | New insights on cross-species differences in the modulation of human and zebrafish nuclear receptors by single chemicals and environmental mixtures | **Nicolas Creusot**, *Eawag – Swiss Federal Institute of Aquatic Science and Technology, Switzerland*
- MO250** | Combining acute toxicity, toxicokinetics and metabolomics approaches to assess the effects of triclosan in zebrafish embryos | **Dimitrios Damalas**, *National and Kapodistrian University of Athens, Greece*
- MO251** | Isoprostanol in fish mucus – a non-lethal biomarker for oxidative stress | **Gregg Tomy**, *Department of Fisheries & Oceans, Canada*
- MO252** | Validation of in ovo embryo microinjections to simulate maternal transfer of selenomethionine in the fathead minnow (*Pimephales promelas*) | **Taylor Lane**, *University of Saskatchewan, Canada*
- MO253** | Preliminary characterization of the rainbow trout intestine using omics based approaches | **Laura Langan**, *School of Biological Sciences Plymouth University, UK*
- MO254** | Persistent organic pollutants alter the expression patterns of epigenetic factors in the Zebrafish Liver (ZF-L) Cell line | **Melanie Blanc**, *Örebro Universitet, Sweden*
- MO256** | Cross-species applicability of the adverse outcome pathway “deiodinase inhibition leading to impaired swim bladder inflation in zebrafish” | **Evelyn Stinckens**, *University of Antwerp, Belgium*
- MO257** | Zebrafish responses to the fourth-generation progestin drospirenone exposures | **Carla Quintaneiro**, *Department of Biology & CESAM – University of Aveiro, Portugal*
- MO258** | Fish caging experiment as a tool for detection of in situ effects of untreated wastewaters: General stress and endocrine disruption | **Dina Tenji**, *University of Novi Sad Faculty of Sciences, Serbia*
- MO259** | Gene transcription ontogeny of hypothalamic-pituitary-thyroid axis development in early-life stage fathead minnow and zebrafish | **Lucia Vergauwen**, *University of Antwerp, Belgium*
- MO260** | Skin vitellogenin and estrogen receptor as sensitive biomarkers of estrogenicity in a sub-Antarctic fish | **Maria Florencia Ferreira**, *Universidad de Buenos Aires, Argentina*
- MO261** | Thyroid disruption and its effects on neuronal development of zebrafish | **Ann-Cathrin Haigis**, *RWTH Aachen University, Germany*
- MO263** | Identification of toxicity pathways predicting adverse outcomes of chlorpyrifos in fathead minnows | **Kerstin Bluhm**, *University of Saskatchewan, Canada*
- MO264** | Evaluation of the deleterious effect of 2 pesticides on juveniles of the zebrafish *Danio rerio* | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*
- MO265** | Effects of Omeprazole on zebrafish embryos (*Danio rerio*) | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*
- MO266** | The neurotoxic effects of Venlafaxine on zebrafish larvae – Omics technologies in the focus of global environmental challenges | **Michael Gundlach**, *RWTH Aachen University, Germany*
- MO267** | Acute effects of the ayahuasca infusion (*Banisteriopsis caapi* and *Psychotria viridis*) on zebrafish and rodent models | **Thayres Andrade**, *Universidade de Brasilia, Brazil*
- MO268** | Chronic exposure to fluoxetine affects growth, feeding, swimming behavior and tissue organization of zebrafish | **Natalia de Farias**, *University of Brasilia, Brazil*
- MO269** | Mitochondrial Disorders of Zebrafish Embryos Exposed to Individual Organochlorine Pesticides and Their Mixtures | **Hyojin Lee**, *Seoul National University of Science and Technology, South Korea*
- MO270** | The NeuroBox Project | **Jessica Legradi**, *Vrije Universiteit Amsterdam, Netherlands*
- MO271** | Understanding the correlation between behavioural inter-individual variability and physiology/morphology in zebrafish larvae | **Colette vom Berg**, *Eawag Swiss Federal Institute of Aquatic Science and Technology, Switzerland*
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- Environmental fate of emerging contaminants in the water cycle: Analytical challenges and engineered solutions (P)** | **Bozo Žonja, Cristina Postigo, Kai Bester, Karin Wiberg**
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- MO272** | Effect of iodinated X-ray contrast media in the formation of disinfection byproducts during chlorination and chloramination of water | **Cristina Postigo**, *IDAEA, CID-CSIC, Spain*
- MO273** | The use of a polymer inclusion membrane for the determination of arsenate by gas-diffusion flow analysis with spectrophotometric detection | **Ruben Vera**, *University of Girona, Spain*
- MO274** | Balancing environmental quality standards and infrastructure upgrading costs for the reduction of microcontaminants loads in rivers | **V Gimeno Melia**, *Catalan Institute for Water Research (ICRA), Spain*
- MO275** | Calibration of passive samplers for the monitoring of drugs in French Caribbean | **Hélène Budzinski**, *University of Bordeaux, France*
- MO276** | Passive sampling in surface water as an immission-based approach to extrapolate waste-water-related pressures and potential EQS exceedence in Luxembourg | **Tom Gale**, *Luxembourg Institute of Science and Technology, Luxembourg*
- MO277** | Determination of Perchlorate by U.S. EPA Method 332.0 Using a Compact Ion Chromatography System Coupled with Mass Spectrometry (IC-MS) | **Timothy Cross**, *Thermo Fisher Scientific, UK*
- MO279** | New opportunities for the non targeted analysis of environmental contaminants using gas chromatography – Orbitrap mass spectrometry | **Dwain Cardona**, *Thermo Fisher Scientific, USA*
- MO280** | HILIC workflow strategy for the hidden target screening of very polar compounds in surface waters | **Stefan Bieber**, *Technical University of Munich, Germany*
- MO281** | Analysis of Per/Polyfluoroalkyl Substances (PFAS) in Drinking Water using LC/MS/MS to meet USEPA 537 requirements | **Laszlo Toelgyesi**, *Agilent, USA*
- MO282** | Optimisation of solid phase extraction parameters for the isolation and characterisation of benzodiazepines in wastewater | **Vernon Somerset**, *CPUT, South Africa*
- MO283** | Monitoring source and drinking waters for Microcystins using online LC/MS/MS method | **Dwain Cardona**, *Thermo Fisher Scientific, USA*
- MO284** | Development of a LC-MS/MS-based method for screening of non-targeted chemicals of potential concern in northern pike | **Stéphane Bayen**, *McGill University, Canada*
- MO285** | Prioritising site-specific emerging contaminants in surface water based on LC-HRMS nontarget screening data | **Martin Krauss**, *Helmholtz centre for environmental research – UFZ, Germany*
- MO286** | Analysis of Phenanthrene Transformation Products Using High-Resolution Mass Spectrometry Coupled to High-Performance Liquid Chromatography | **Mary Leonard**, *Oregon State University, USA*
- MO287** | Strategies to monitor transformation products in the water cycle | **Stefan Kools**, *KWR Watercycle Research Institute, Netherlands*
- MO288** | Application of high-resolution mass spectrometry to identifying chlorinated transformation products of aromatic emerging contaminants in wastewater | **Wen-Ling Chen**, *TUNGSHAI University, Taiwan*
- MO289** | Unravelling the potential of a partial nitrification/anammox biomass towards micropollutants biodegradation | **Lucia Gusmaroli**, *Catalan Institute for Water Research ICRA, Spain*
- MO290** | Removal of pharmaceuticals in a biofilm reactor: Effects of manipulating co-degradation by carbon feeding on system performance | **Pedro Carvalho**, *Aarhus University, Denmark*
- MO291** | Investigating inhibitory effect of anti-inflammatory pharmaceuticals on activated sludge | **Didem Okutman-Tas**, *Istanbul Technical University, Turkey*
- MO292** | Elimination of tramadol and methadone in model ozonation experiments: Removal kinetics and identification of transformation products | **Petra Kostanjevečki, Rudjer Boskovic Institute, Croatia**
- MO293** | Fate and transformation of persistent priority contaminants during potable water reuse: The challenge of producing safe water | **Cassiana Raimundo**, *UNICAMP, Brazil*
- MO295** | Evaluation of a nano-adsorbent for the removal of metallic carcinogens from wastewater | **Vernon Somerset**, *CPUT, South Africa*
- MO296** | WATER JPI Project FRAME: A novel framework to assess and manage contaminants of emerging concern in indirect potable reuse | **Sara Valsecchi**, *Water Research Institute – Italian National Research Council IRSA-CNR, Italy*
- MO297** | Evaluation of Rainwater collected from Concrete underground tank and other storage tanks in Owerri Imo State, Nigeria | **Adaobi Okeke**, *University, Nigeria*
- MO298** | Sewage Epidemiology: Investigating the Impact of Phthalates on Human Health | **Catherine Allen**, *Dublin City University, Ireland*
- MO299** | Phthalates and their metabolites in the environment | **Catherine Allen**, *Dublin City University, Ireland*
- MO300** | Poly- and perfluoroalkyl substances (PFAS) in the sewage system of the Bordeaux city: High contribution of unidentified precursors of perfluoroalkyl acids | **Hélène Budzinski**, *University of Bordeaux, France*
- MO301** | Antibiotics and endocrine disrupting compounds in wastewater treatment plants and in receiving water bodies around the city of Rome (Italy) | **Luisa Patrolecco**, *Water Research Institute-National Research Council, Italy*
- MO302** | Mass flows of antimicrobial compounds in Swedish sewage treatment plants | **Marcus Östman**, *Umea University, Sweden*
- MO303** | Herbicides and fungicides in watersheds of agricultural regions of Ontario | **Tamanna Sultana**, *Trent University, Canada*
- MO305** | A Study on the Distribution and Behavior of Nonylphenol in the Suyeong River, Korea | **Dong-Myung Kim**, *Pukyong National University, South Korea*

MO | Monday Poster Presentations

MO306 | Drugs of abuse distribution in Turia River based on geographic information and ecotoxicological assessment | **Maria Jesús Andrés Costa**, *Universitat de Valencia, Spain*

MO308 | Occurrence, fate and environmental risk assessment of benzophenone-type UV filters in a tropical urban watershed | **Karina Yew-Hoong Gin**, *National University of Singapore, Singapore*

MO309 | Formation of disinfection byproducts throughout various drinking water treatment processes | **Cristina Postigo**, *IDAEA, CID-CSIC, Spain*

MO310 | Formation of N-nitrosodimethylamine during water treatment for potable use: An update | **Bogdan Slencu**, *University of Medicine and Pharmacy Grigore T. Popa Iasi, Romania*

MO311 | Presence and environmental hazard of psychoactive pharmaceutical compounds in coastal waters and biota from North-Western Spain | **Cristina Postigo**, *IDAEA, CID-CSIC, Spain*

MO312 | Determination of glyphosate and AMPA in fish bile from the Marne River, France | **Helene Blanchoud**, *EPHE UMR 7619, France*

MO313 | From source to food: Following emerging pollutants | **Thomas Dodsworth**, *The University of Nottingham, UK*

MO314 | Psychoactive compounds in mussels: Analytical method development and occurrence assessment | **Ester Garcia**, *IDAEA-CSIC, Spain*

New Horizons in Particulate Polymer Analysis: Micro – and Nanoplastics and Tire Rubber Detection, Characterisation and Impacts in the Environment (P) | **Ana I Catarino**, **Maya Al Sid Cheikh**, **Farhan Khan**

MO315 | MPHunter: A dedicated software for μ FTIR-Imaging Microplastic data analysis. First development steps and future perspectives | **Alvise Vianello**, *Aalborg University, Denmark*

MO316 | From alpine regions to dense populated areas: A comparison of microplastic contamination between 15 rivers across Germany | **Christian Laforsch**, *University of Bayreuth, Germany*

MO317 | Analytical approach for the identification and quantification of microplastic particles in environment samples by particle analysis in combination with FTIR and Raman microscopy | **Dieter Fischer**, *Leibniz-Institut f. Polymerforschung Dresden, Germany*

MO318 | Using pyrolysis GC-MS in combination with multivariate tools to identify and differentiate polymer type and weathering of microplastics | **Andy Booth**, *SINTEF Ocean, Norway*

MO319 | Marine Microplastic: Production and characterisation of realistic test materials for studying ecosystem impacts | **Andy Booth**, *SINTEF Ocean, Norway*

MO320 | Optimization of the preparation of standards of high density polyethylene microplastics and quantification techniques by stereoscopic and confocal microscopy | **Elisa Rojo-Nieto**, *Cactymar-University of Cadiz, Germany*

MO321 | First Report of Microplastics in Pacific-side Arctic Ocean | **Seung-Kyu Kim**, *Incheon National University, South Korea*

MO322 | Analysing microplastics in samples of terrestrial systems | **Axel Mueller**, *Bundesanstalt für Materialforschung und -prüfung, Germany*

MO323 | Microplastics in Expanded Global Table Salt Product Samples and its implication | **Seung-Kyu Kim**, *Incheon National University, South Korea*

MO324 | Biodegradability of pristine and weathered car tire rubber using different inocula | **Fabio Polesel**, *Technical University of Denmark (DTU), Denmark*

MO325 | Evaluating sorption properties of tire materials using poly-parameter linear free-energy relationships (ppLFER) | **Thorsten Hüffer**, *University of Vienna, Austria*

MO326 | Particle toxicity in the daggerblade grass shrimp (*Palaemonetes pugio*): Micronized tire wear particles and microplastics | **John Weinstein**, *The Citadel, USA*

MO327 | Acute and chronic toxicity of micronized tyre rubber to *Hyalella azteca* | **Farhan Khan**, *Roskilde University, Denmark*

MO328 | Acute and chronic effects on *Hyalella azteca* and chemical analysis of rubber particles and leachate – comparison of pristine micronized car tire to previous data on worn car tire particles | **Louise Halle**, *Roskilde University, Denmark*

MO329 | Applying nuclear techniques to study the biokinetics and toxicodynamics of microplastics and co-contaminants in marine biota | **Marc Metian**, *IAEA-EL, Monaco*

MO330 | Aggregation kinetics of plastic nanoparticles in fresh and marine phytoplankton culture media | **Zelie Venel**, *EPOC, University of Bordeaux, France*

MO332 | *Mytilus* spp. as sentinel species for water borne microplastic ingestion; a case study from the Norwegian coast | **Inger Lise Amy L. Lusher**, *Norwegian Institute for Water Research NIVA, Norway*

Mercury Biogeosciences – Fate, Effects and Policy (P) | **Michael Bank**, **Séverine Le Faucheur**, **Nelson O'Driscoll**, **Joao Canario**

MO333 | Influence of biofilm composition on mercury bioaccumulation | **Perrine Dranguet**, *University of Montreal, Canada*

MO334 | Gaseous elemental mercury concentration and diurnal evasion fluxes from the water-air interface in coastal environments of the northern Adriatic Sea | **Stefano Covelli**, *Dipartimento di Matematica e Geoscienze, Italy*

MO335 | Atmospheric mercury assessment: A contribution to global monitoring and effectiveness evaluation within the Minamata Convention | **Alessandra Fino**, *Italian National Research Council – Institute of Atmospheric Pollution Research (CNR-IRA), Italy*

MO336 | Assessment of Hg impacts on mountain river ecosystems | **Séverine Le Faucheur**, *Institute F.-A. Forel, University of Geneva, Switzerland*

MO337 | Mercury Photo-reduction and Total Photo-reducible Mercury Dynamics in the Lakes of Kejimikujik National Park, Nova Scotia | **Nelson O'Driscoll**, *Acadia University, Canada*

MO338 | Influence of Avian Biovectors on Mercury Speciation in a Wetland | **Nelson O'Driscoll**, *Acadia University, Canada*

MO339 | Organohalogen and mercury residues in fish from the Western Mediterranean Sea: Concentrations, bioaccumulation and dietary exposure | **Eva Junqué**, *Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain*

MO340 | Mercury, Commercial Fish & Risk assessment: A Review study (1994-2015) | **Hugo Coelho Vieira**, *University of Aveiro, Portugal*

MO341 | Mercury concentrations in black bream from the Gippsland Lakes, Victoria, Australia | **Leon Metzeling**, *EPA Victoria, Australia*

MO342 | Mercury health risks due to the substitution of fish meat with shark meat | **Patricia Ramirez Romero**, *U.A.M. Iztapalapa, Mexico*

MO343 | Mercury in trophic webs of estuaries in South-Southeastern Brazil | **Tailisi Trevizani**, *Universidade de Sao Paulo, Brazil*

MO344 | Biological and Geochemical Drivers of Mercury Toxicity in Yellowknife, NWT, Canada | **Mija Azdajic**, *University of Ottawa, Canada*

MO345 | Use of green tea to reduce mercury and methylmercury bioaccessibility in raw and cooked fish | **António Marques**, *Portuguese Institute of Sea and Atmosphere IPMA, Portugal*

MO346 | Importance of a tidal flat-saltmarsh system as a source-sink of mercury in a contaminated coastal lagoon environment (northern Adriatic Sea) | **Elisa Petranich**, *University of Trieste, Italy*

MO347 | Main sources of mercury releases in Armenia | **Anahit Aleksandryan**, *Hazardous Substances & Waste Policy Division, Armenia*

MO348 | Spatial and temporal variation of mercury accumulation in *Thelypteris hispidula* in the upper Felidia river basin, Colombia | **William Alberto Correa Barragán**, *Universidad Nacional de Colombia, Colombia*

MO349 | Temporal integration of diurnal variations of metals and mercury concentrations by passive sampling method in a highly polluted site on the Deûle River, northern France | **Marie Bretier**, *Irstea Centre de Lyon – Villeurbanne, France*

MO350 | The effect of activated carbon amendment on mercury methylation in contaminated sediment | **Erlend Sormo**, *Norwegian Geotechnical Institute, Norway*

MO351 | Bayesian Human Health Risk Assessment of Almadén Mining Area | **David Bolonio**, *Universidad Politécnica de Madrid, Spain*

MO352 | Concentrations of mercury in two offshore skates: Sandy ray and shagreen ray | **Ernst Nicolaus**, *Cefas Lowestoft Laboratory, UK*

MO353 | EMPIR project "MercOx – Metrology for oxidised mercury" | **Ina Fetting**, *Federal Environment Agency (Umweltbundesamt), Germany*

MO354 | PBTK/TD assessment of mercury (Hg(II)) accumulation in freshwater tilapia species | **Chung-Min Liao**, *National Taiwan University, Taiwan*

MO355 | Mercury in fish, fish intake and fish consumption recommendation | **Hugo Coelho Vieira**, *University of Aveiro, Portugal*

Mechanistic effect modelling for risk assessment: Applications, use in a regulatory context and future directions (P) | **Andreas Focks**, **Thomas Preuss**, **Alpar Barsi**

MO356 | Ring-test of different implementations of the General Unified Threshold Model of Survival (GUTS) | **Roman Ashauer**, *University of York, UK*

MO357 | Feeding impairment in fish explained by a TK-TD model | **Kim Ladermann**, *Research Institute gaiac, Germany*

MO358 | TK-TD modelling as additional line of evidence in the risk assessment for aquatic macrophytes: Chlorotoluron as a case study | **Judith Klein**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

MO359 | TK/TD modelling as a tiered approach to reveal interspecies variability of toxicity in fish | **Thomas Preuss**, *Bayer Ag, Germany*

MO360 | RIFCON EasyGUTS: Ready-to-use and freely available software for TK/TD modelling of survival | **Dirk Nickisch**, *Rifcon GmbH, Germany*

MO361 | A new test design to inform TKTD models on species sensitivity | **Eric Bruns**, *Bayer AG, Division Bayer CropScience, Germany*

MO362 | Impact of temperature on species sensitivity distribution in aquatic invertebrates | **Kim Ladermann**, *Research Institute gaiac, Germany*

MO363 | Lemna toxicokinetic and toxicodynamic (TK/TD) modelling – Impact of the ecological scenario on the risk assessment | **Simon Heine**, *Bayer Ag, Germany*

MO | Monday Poster Presentations

MO364 | Defining ecological lake scenarios for population modelling as part of the Ecological Risk Assessment of chemicals | **Tido Strauss**, *Research Institute gaisac, Germany*

MO365 | The use of population models in copper risk assessment: A case study with *Acipenser transmontanus* | **Karel Vlaeminck**, *Arche consulting, Belgium*

MO366 | Comparison of toxic effects on *Daphnia magna* between a metal, a pesticide, and a PAH, in a toxicokinetic-toxicodynamic framework | **Karel Vlaeminck**, *Arche consulting, Belgium*

MO367 | Deriving predicted no-effect concentrations for perfluoroalkyl acids in the Po river ecosystem through a novel methodology based on the AQUATOX ecosystem model | **Andrea Gredelj**, *University of Padua, Italy*

MO368 | Incorporating spatially explicit metapopulation models as the endpoint of an Adverse Outcome Pathway-based Bayesian Network-Relative Risk Model | **Chelsea Mitchell**, *Washington State University, USA*

MO369 | Modeling and monitoring the effects on the central nervous system of a chronic exposure to low dose of pollutants: An innovative strategy with first results | **Thomas Claudepierre**, *URAFPA-INRA, France*

MO370 | A new classification method for mechanisms of toxic action | **Franklin Bauer**, *KREATIS, France*

Biocides and Veterinary Medicines: Latest developments in regulatory risk assessment, research and monitoring (P) | **Fabienne Ericher, Jaana Laitinen, Jason Weeks, Anja Kehrer**

MO371 | Biocide leaching from building facades: Pseudo-persistence in soil due to reoccurring emissions | **Ulla Bollmann**, *Aarhus University, Denmark*

MO372 | Biocides in facade coatings: Influence of pigments on the phototransformation of biocides | **Ulla Bollmann**, *Aarhus University, Denmark*

MO373 | New Developments in Environmental Emission Scenarios of Biocides – Rodenticides | **Eleonora Petersohn**, *German Environment Agency (UBA), Germany*

MO374 | New Developments in Environmental Emission Scenarios of Biocides – Preservatives for products during storage | **Katja Michaelis**, *German Environment Agency (UBA), Germany*

MO375 | Monitoring of Biocides in German Sewage Treatment Plant Effluents – First Results | **Christiane Meier**, *German Environment Agency (UBA), Germany*

MO376 | The 'risk envelope approach' applied to environmental risk assessments for disinfectants – a strategy to reduce workload for biocidal product families | **Sabine Navis**, *Arche consulting, Belgium*

MO377 | Are biocide emissions into the environment already at alarming levels? Recommendations of the German Environment Agency (UBA) for an approach to study the impact of biocides on the environment | **Korinna Pohl**, *German Environment Agency (UBA), Germany*

MO378 | A case study on exposure assessment of biocides in PPCP using exposure assessment models | **Minjeong Kim**, *KIST Europe, Germany*

MO379 | Hazard evaluation of biocides and its metabolites for the aquatic compartment | **David Hernandez-Moreno**, *INIA, Spain*

MO380 | Synchronous decreasing levels of imposex and tributyltin (TBT) in dogwhelk (*Nucella lapillus*) from Norway, 1991-2015 | **Merete Schøyen**, *Norwegian Institute for Water Research (NIVA), Norway*

MO381 | Risk assessment issues for algaecides under BPR | **Cyril Durou**, *CEHTRA SAS, France*

MO382 | Could a spatially distributed modelling approach enhance post approval considerations for veterinary medicines? | **Claire McMillan**, *Cambridge Environmental Assessments, UK*

MO383 | Are currently-adopted European guidelines on veterinary medicine product and feed additive risk assessment sufficiently cautious? | **Andrea Di Guardo**, *Universita degli Studi di Milano-Bicocca, Italy*

MO384 | Quick scan to monitoring data of veterinary pharmaceuticals in the Netherlands | **Stefan Kools**, *KWR Watercycle Research Institute, Netherlands*

MO385 | Comparing methods for estimating environmental emissions | **Agnieszka Kowalczyk**, *SC Johnson EurAFNE Limited, UK*

IG **MO386** | SETAC Dung Organism Toxicity Testing Interest Group | **Jörg Römbke**, *ECT Oekotoxikologie GmbH, Germany*

Interpretation and uncertainty – overcoming challenges of translating LCA results into reliable information (P) | **Gudrun Obersteiner, Michele De Rosa, Nicole Unger**

MO387 | Recommendation on Steam Cracker allocation for the sake of comparability of petrochemicals products datasets used in LCA studies | **Guy Castelan**, *PlasticsEurope, France*

MO388 | Actual versus default inventory uncertainty in ecoinvent database | **Fernanda Belizario**, *Institute for Technological Research IPT, Brazil*

MO389 | Life cycle assessment of battery systems with harmonized life cycle inventories considering different storage applications | **Xiaojin Zhang**, *Paul Scherrer Institute, Switzerland*

MO390 | LCA of nano-adsorbents – Interpretation of laboratory results | **Stig Olsen**, *Technical University of Denmark, Denmark*

MO391 | Quantifying the influence of consumer behaviour on water, energy and greenhouse gas footprints of showering | **Sadegh Shahmohammadi**, *Radboud University, Netherlands*

MO392 | Recommendations on the Creation, Management and Use of Data Quality Information for Life Cycle Assessment | **Ashley Edelen**, *ORISE, USA*

MO393 | Site-specific N-emissions of rapeseed cultivation in Germany | **Heinz Stichnothe**, *Thünen Institute, Germany*

The environment as a reactor determining fate and toxicity of nanomaterials (P) | **Susana Loureiro, Cornelis A M van Gestel, Iseult Lynch, Claus Svendsen**

MO394 | Ecotoxicity and fate of Ag and CeO₂ nanomaterials in outdoor lysimeter experiments | **Karsten Schlich**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

MO395 | Long term effects of three different silver sulfide nanomaterials, silver nitrate and bulk silver sulfide on soil microorganisms and plants | **Karsten Schlich**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

MO396 | Influence of soil type on the toxicokinetics of Ag and Ag₂S nanoparticles and ionic Ag in soil invertebrates | **Cornelis A M van Gestel**, *Vrije Universiteit Amsterdam, Netherlands*

MO397 | Terrestrial isopods as models to assess the biotransformation of nanoparticles inside the organisms: An example with silver and gold nanoparticles | **Anita Jemec Kokalj**, *University of Ljubljana, Biotechnical Fac., Slovenia*

MO398 | Energy reserves and respiration rate in the earthworm *Eisenia andrei* after exposure to zinc in nanoparticle or ionic forms | **Zuzanna Swiatek**, *Institute of Environmental Sciences, Jagiellonian University, Poland*

MO399 | Evaluating the Cellular & Humoral Immune Responses of the Terrestrial Isopod, *Porcellio scaber*, to Gold Nanoparticles | **Craig Mayall**, *University of Ljubljana, Biotechnical Fac., Slovenia*

MO400 | Determining the comparative ecotoxicity of Cd/Te quantum dots with three different functional groups in three species of soil dwelling organisms | **Tarryn Botha**, *North-West University, South Africa*

MO401 | Assessment of the differential effects of transformation on the toxicity of nanomaterials with different size and coating propertiesto to soil bacteria and the nematode *Caenorhabditis elegans* | **Carolin Schultz**, *Centre for Ecology and Hydrology, UK*

MO402 | Toxic Effects of Silver Nanoparticles and Its Transformation Product in Soil Applied with Biosolid | **Emel Topuz**, *Istanbul Technical University, Turkey*

MO403 | Short-term induced molecular stress responses in coelomocytes of *Eisenia fetida* earthworms in vivo exposed to silver nanoparticles | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

MO404 | Effects of Cerium Nanoparticles with deferent surface-charge in coelomocytes of *Eisenia fetida* | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

MO405 | The uptake of pristine and aged silver nanoparticles by wheat, *Triticum aestivum*, in a soil exposure | **Amaia Green Etxabe**, *CEH Wallingford, UK*

MO406 | In vitro effects on *Dendrobaena veneta* coelomocytes of Ag and TiO₂ nanoparticles before and after wastewater treatment processes | **Anastasia Georgantzopoulou**, *Norwegian Institute for Water Research NIVA, Norway*

MO407 | Differential biomarker responses of *Daphnia magna* to pristine and wastewater borne silver nanoparticles | **Victor Galhano**, *Department of Biology & CESAM – University of Aveiro, Portugal*

MO408 | Outlining the behaviour and ecotoxicology of biomedical nanoparticles in natural waters | **Giacomo Grassi**, *University of Siena, Italy*

MO409 | Development of a method for the analysis of nanoparticles in the freshwater clam *Corbicula fluminea* | **Boris Meisterjahn**, *Fraunhofer Institute for Molecular Biology and Applied Ecology IME, Germany*

MO410 | The aquatic ecotoxicity of a marketed nanosilver product – a direct comparison with ionic silver | **Katrien Arijs**, *ARCHE, Belgium*

MO411 | Investigations on the uptake pathway and accumulation of silver from manufactured silver nanoparticles in the freshwater amphipod *Hyalella azteca* | **Sebastian Kühn**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

MO412 | Ecotoxicity of silica and silver nanoparticles (ENPs) on hyporheic copepods as a function of their bioavailability by dissolved organic matter (DOM) and water hardness of environmental samples | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

MO413 | Long-term exposure of ZnO nanoparticles to freshwater microalgae cultivated in batch and semi-continuous mode | **Andriana Aravantinou**, *University of Patras, Greece*

MO414 | Effects of sunscreen-derived TiO₂ nanoparticles on freshwater and marine organisms | **Simona Schiavo**, *ENEA CR, Italy*

MO415 | Silver nanoparticles affect the early development of *Tisbe battagliai*: Pristine vs aged particles | **Anastasia Georgantzopoulou**, *Norwegian Institute for Water Research NIVA, Norway*

MO | Monday Poster Presentations

MO416 | Silver concentration in the haemolymph of a tropical marine amphipod fed with silver nanoparticles and silver chloride | **Monizze Vannucci-Silva**, UNICAMP, Brazil

MO417 | Toxic effects of multi-walled carbon nanotubes on bivalves: Comparison between functionalized and nonfunctionalized nanoparticles | **Lucia De Marchi**, University of Aveiro, Department of Biology & CESAM, Portugal

MO418 | Assessment of genotoxic and proinflammatory effects of different Silica and Titania Nanoparticles on human bronchial cells | **Anna Fresegna**, Italian Workers Compensation Authority-INAIL, Italy

MO419 | Transformations of engineered nanomaterials during wastewater treatment: The role of engineered surface coatings and the impact on environmental fate | **Mark Surette**, Oregon State University, USA

MO420 | Freshwater sediments as an environmental reactor: Defining biologically relevant fate parameters to provide context for nanomaterial bioaccumulation | **Richard Cross**, University of Exeter, UK

MO421 | Examining the role of TiO₂ nanoparticle surface transformations on transport and toxicity | **Alyssa Deline**, Oregon State University, USA

MO422 | Influence of organic compounds on the sulfidation kinetics of copper oxide nanoparticles | **Alexander Gogos**, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland

MO423 | Evaluating spICP-TOF-MS for Exploring Environmental Nano-scale Processes | **Manuel Montaño**, University of Vienna, Austria

MO424 | Assessing potential risks of Nanodrugs and their delivery systems in fish using Light Sheet Microscopy | **Dylan Windell**, University of Exeter, UK

IG **MO425** | SETAC Nanotechnology Interest Group | **Claus Svendsen**, CEH, Wallingford, UK

Hydrophobic Chemicals and Mixtures: Reliable Investigations on their Environmental Fate and Effects (P) | **Philipp Mayer**, **Felix Stibany**, **Josh Butler**

MO426 | Effect of ageing on polycyclic aromatic hydrocarbon composition of biochar | **Gabriel Sigmund**, Technische Universität München, Germany

MO427 | Field testing of a new calibration approach for silicone passive samplers: Comparison of the concentration ratio method using samplers of different thicknesses with the PRC approach | **Hanna Fuchte**, Institut für Umweltforschung, Germany

MO428 | Use of biochar for hexachlorocyclohexane sorption: A mechanistic approach | **Ludovica Silvani**, Norwegian Geotechnical Institute, Norway

MO429 | Development of a Method for Measurement Freely Dissolved Concentrations of Alkylated PAHs Using Solid Phase Microextraction with PDMS Fibers | **Mathias Reininghaus**, RWTH Aachen, Germany

MO430 | Spatial Distribution of HOCs on the Palos Verdes Shelf Superfund Site | **Allison Taylor**, University of California Riverside, USA

MO431 | PAHs in water and surface sediments from Douro River estuary and Porto Atlantic coast (Iberian Peninsula, North Portugal) — Risks for biota and human health? | **Maria João Rocha**, ICBAS U.Porto, CIIMAR CIMAR LA, Portugal

MO433 | Occurrence and availability of PACs and total AhR agonists in contaminated soils – Combining in vitro reporter gene assay and chemical analysis with passive sampling and column leaching | **Maria Larsson**, Orebro University, Sweden

MO434 | Verification of read-across for aquatic hazard properties of Petroleum Substances in REACH registrations | **Yves Verhaegen**, CONCAWE, Belgium

MO435 | Automated Solid Phase Microextraction (SPME) for measuring freely dissolved concentrations of hydrophobic chemicals in soils, sediments and other solid matrices | **Chiara Maria Vitale**, University of Insubria, Italy

MO436 | New approaches for determining solubility of volatile liquid chemicals | **Heidi Birch**, DTU Environment, Denmark

MO437 | Headspace passive dosing for dose-response testing of volatile hydrophobic organic chemicals | **Lam Trac**, Technical University of Denmark, Denmark

MO438 | Application of biomimetic solid phase microextraction to characterize aquatic hazard of petroleum substances | **Louise Camenzuli**, ExxonMobil Petroleum and Chemical, Belgium

MO439 | Bioaccumulation factors of synthetic musks and other hydrophobic contaminants in mangrove molluscs | **Stéphane Bayen**, McGill University, Canada

MO440 | Effect-based characterization of mixtures of environmental pollutants in sediments collected between the Arctic and Australia | **Annika Jahnke**, Helmholtz Centre for Environmental Research – UFZ GmbH, Germany

MO441 | Bioaccumulation of hydrophobic organic compounds in aquatic biota: Addressing current challenges for in tissue passive equilibrium sampling | **Elisa Rojo-Nieto**, Helmholtz centre for environmental research – UFZ, Germany

MO442 | Widespread occurrence of 4-Nonylphenol, BHT, and 2,4-DTBP in blue crab, *Callinectes sapidus*, megalopae in the northern Gulf of Mexico | **Susan Chiasson**, Loyola University, USA

MO443 | Real-time visualization and quantification of perylene bioaccumulation at single cell level | **Xuejun Guo**, School of Environment, Beijing Normal University, China

MO444 | Impregnation factors of freshwater fish by organic micropollutants in the Marne Hydrographic network | **Noëlie Molbert**, UPMC UMR METIS 7619, France

MO445 | Environmental occurrence and distribution of organic UV stabilizers in the sediment of the North and Baltic Seas | **Christina Apel**, Helmholtz-Zentrum Geesthacht, Germany

MO446 | Is Lake Como a "uniform lake"? Information from its inhabitants (zooplankton and fish) | **Sara Valsecchi**, Water Research Institute – Italian National Research Council IRSA-CNR, Italy

MO448 | Kinetic Sorption and Bioaccumulation of Hydrophobic Organic Chemicals in Marine Plankton Food Chain | **Fung-Chi Ko**, National Museum of Marine Biology and Aquarium/ National Dong Hwa University, Taiwan

MO449 | Do weathered multiwalled carbon nanotubes influence the distribution of the biocide triclocarban in a sediment-water system? | **Lena Benner**, RWTH Aachen University, Germany

MO450 | When technical limits triggers risk assessment for non-biodegradable insoluble pharmaceutical molecule | **Philippe Adrian**, CEHTRA, Belgium

MO451 | Effect of environmental characteristics on the bioavailability of hydrophobic organic compounds to fresh water organisms from natural aquatic systems | **Lies Teunen**, University of Antwerp, Belgium

MO452 | Personal care products (PCPs) in the southeastern coast of Brazil: Implementation of the analytical method and environmental occurrence | **Tatiane Combi**, Instituto Oceanográfico da Universidade de São Paulo, Brazil

MO453 | IFRA Environmental Standards and RIFM Safety Assessment Program Advances Update for 2018 | **Aurelia Lapczynski**, RIFM, USA

MO454 | Comparison of different sampling techniques for the identification fire effluents from low-density polyethylene burning | **Abdulrhman Dhabbah**, King Fahad Security College, Saudi Arabia

MO455 | PbT_k modelling of super-hydrophobic chemicals | **Wolfgang Larisch**, Helmholtz Centre for Environmental Research UFZ, Germany

Migratory bird species at risk – the role of pesticides and other chemicals (P) | **Nico van den Brink**, **Borja Heredia**, **Rafael Mateo**, **Richard Shore**

MO456 | Main scientific gaps in knowledge of risk from pesticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Christine Bishop**, Environment and Climate Change Canada, Canada

MO457 | Main scientific gaps in knowledge of risk from rodenticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Philippe Berny**, VETAGRO-SUP, France

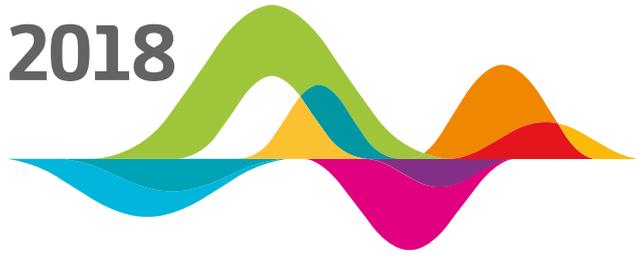
MO458 | Main scientific gaps in knowledge of risk from Pb ammunition and shot to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Ruth Cromie**, Wildfowl & Wetlands Trust, UK

MO459 | Main scientific gaps on knowledge of NSAIDs [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Mark Taggart**, University of the Highlands and Islands, UK

MO460 | Main scientific gaps on knowledge of deliberate poisoning to [migratory] wildlife globally | **Martin Odino**, Independent Environmental Services Professional, Kenya



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TUESDAY 15 MAY

Daily Schedule		Location
7:30 a.m.–6:30 p.m.	Registration Open	Registration Desk
7:30 a.m.–8:30 a.m.	Poster Setup	Exhibition Hall
8:30 a.m.–10:05 p.m.	Platform Session <i>Morning 1</i>	
10:05 a.m.–10:50 a.m.	Coffee Break & Poster Viewing	Exhibition Hall
10:50 a.m.–12:25 p.m.	Platform Session <i>Morning 2</i>	
12:00 p.m.–2:30 p.m.	Fun Run	Registration Desk
12:25 p.m.–1:55 p.m.	Lunch Break and Poster Viewing	Exhibition Hall
12:25 p.m.–1:55 p.m.	Student Lunch Seminar	Workshop Room
1:55 p.m.–3:30 p.m.	Platform Session <i>Afternoon</i>	
3:30 p.m.–4:15 p.m.	Coffee Break & Poster Viewing	Exhibition Hall
4:15 p.m.–5:00 p.m.	Keynote Speaker Eugenia Dogliotti	Session Room A+B
5:15 p.m.–6:15 p.m.	Poster Social	Exhibition Hall
9:00 p.m.–3:00 a.m.	Student Party (ticket required)	Locanda Atlantide, Via dei Lucani 22

KEYNOTE SPEAKER

Tuesday, 15 May | 4:15 p.m.–5:00 p.m. | Session Room A+B

Innovative Research Issues in Environmental Mutagenesis



Eugenia Dogliotti

Istituto Superiore di Sanità, Italy

Dr. Eugenia Dogliotti is the Director of the Department of Environment and Health at Istituto Superiore di Sanità (National Institute of Health, ISS), the leading technical-scientific body of the Italian National Health Service. She graduated in Biology from the University of Rome. She was then trained in

the field of molecular mutagenesis and DNA repair first at the Medical Biological Laboratory, TNO, Rijswijk (The Netherlands) and then at the Department of Applied and Biological Sciences, Massachusetts Institute of Technology (USA) where she was involved in pioneering work on the characterization of DNA damage and single-lesion mutagenesis in mammalian cells. As group leader at ISS she introduced the use of lesion-containing vectors to analyse DNA repair mechanisms achieving with her group the discovery of a new DNA repair pathway, the

long-patch base excision repair. Because of these achievements, in 2015 she received the Frits Sobels Award that recognizes outstanding contributions to the field of environmental mutagenesis.

She has been President of the Italian Society of Environmental Mutagenesis (2004-2007) and of the European Environmental Mutagen Society (2007-2009). She is currently member of the Scientific Council of the International Agency for Research on Cancer (2016-2019).

Her major fields of research are the mechanisms of chemical mutagenesis and gene-environment interaction studies in human populations. She is the author of more than 140 papers in peer-reviewed international journals and books in the field of mammalian cell mutagenesis, DNA repair and genetic toxicology. She has extensive experience in risk assessment serving in national and international advisory boards.

TUESDAY 15 MAY

Satellite Meetings		Location
08:00 a.m.–09:00 a.m.	Sediment Interest Group	Meeting Room 7
08:00 a.m.–09:00 a.m.	Ad-hoc Group Science-Based Risk Communication	Meeting Room 10
08:30 a.m.–5:00 p.m.	Smithers Visicent Meeting Room	Meeting Room 2
09:00 a.m.–11:00 p.m.	Publications Advisory Committee	Meeting Room 6
10:30 a.m.–12:00 p.m.	Awards Committee	Meeting Room 1
12.00 p.m.–1:30 p.m.	Sustainability & Ecosystem Services Interest Groups Joint Meeting	Meeting Room 1
12:25 p.m.–1:55 p.m.	Thermo Scientific lunch seminar – From sample to knowledge: More than meeting regulations	Meeting Room 3
12:25 p.m.–1:55 p.m.	Freshwater Salinisation Interest Group	Meeting Room 7
12:25 p.m.–1:55 p.m.	Student Lunch Seminar	Workshop Room
1:30 p.m.–3:00 p.m.	Global Partner Council	Meeting Room 9
2:00 p.m.–4:00 p.m.	Prioritising Research Questions for the Mediterranean Region – Stakeholder meeting	Meeting Room 8
3:00 p.m.–4:00 p.m.	SETAC International Programmes Committee	Meeting Room 9
3:00 p.m.–4:30 p.m.	Certification Programme Committee	Meeting Room 1
4:00 p.m.–5:00 p.m.	Effect Modelling Interest Group	Session Room M
4:00 p.m.–5:30 p.m.	ECETOC/CEFIC LRI ECO 37 – Progress review Meeting	Meeting Room 6
4:00 p.m.–6:00 p.m.	Animal Alternatives Interest Group	Meeting Room 7
4:00 p.m.–6:00 p.m.	Cefic-LRI ECO20.2	Meeting Room 9
4:30 p.m.–6:00 p.m.	Endocrine Disrupter Testing & Risk Assessment Interest Group	Meeting Room 8
4:30 p.m.–6:00 p.m.	IT/UK Student networking event	Meeting Room 10
4:30 p.m.–6:30 p.m.	AMR Industry Alliance Science Team	Meeting Room 1
5:00 p.m.–6:30 p.m.	Pharmaceuticals Interest Group Steering Committee	Session Room O
5:15 p.m.–5:45 p.m.	CRA Information Session	Meeting Room 3
5:30 p.m.–6:30 p.m.	Life-Cycle Assessment Interest Group - Europe Steering Committee	Meeting Room 6
5:30 p.m.–7:00 p.m.	Soils Interest Group	Session Room N
5:45 p.m.–7:30 p.m.	SETAC Fellows' reception	Workshop Room

STUDENT LUNCH SEMINAR

Tuesday, 15 May | 12:25 p.m.–1:55 p.m. | Workshop Room

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Agnieszka Hunka

Halmstad University, Sweden

Agnieszka works at Halmstad University, Sweden and has background experimental psychology and environmental science. For the last 8 years she has been working in interdisciplinary teams on (bio)technology acceptance, risk communication and risk/uncertainty perception in the risk assessment of chemicals. Currently her main research is in uncertainty-averse decisions and methods to reduce uncertainty in risk assessments. She is one of the founders of SCIRIC, the SETAC Europe Science and Risk Communication IG.



Tickets are distributed Tuesday morning at the registration desk.
First come, first served!

PROGRAMME HIGHLIGHTS

★ Special Session

Solutions for Emerging Pollutants: Towards a Holistic Chemical Quality Status Assessment in European Freshwater Resources

Tuesday, 15 May | 8:30 a.m.–3:30 p.m. | Session Room Q

Werner Brack

*Helmholtz Centre for
Environmental Research (UFZ),
Germany*

Rolf Altenburger

*Helmholtz Centre for
Environmental Research (UFZ),
Germany*

Jos van Gils

Deltares, Netherlands

John Munthe

*IVL Swedish Environmental
Research Institute, Sweden*

High quality freshwater resources are a key requirement for sustainable development in Europe, safe drinking water production and for the protection of aquatic ecosystems and their biodiversity, including downstream transitional and marine waters. While the Water Framework Directive defines a holistic ecological status to monitor and assess the quality of aquatic ecosystems, chemical status is defined in a very traditional way focusing on 45 so-called Priority Pollutants. Such regulatory approach based on maximum concentrations of individual substances in receiving water, sediments or biota may have advantages for commonly occurring pollutants with well-known toxicological properties but may have disadvantages concerning all the non-regulated (emerging) pollutants, the unknown substances, the unknown toxicological effects as well as any combination effect of mixtures. At the same time, compliance monitoring for all the priority pollutants may not represent the most efficient environmental management strategy considering occurrence of many substances frequently below the detection limits. A recent study in the process towards a non-toxic environment led by the European Commission highlights several environmental management issues and recommendations, i.e.,

- Improved identification and tracking of all substances meeting the criteria for SVHCs and including very persistent substances as well as substances of concern meeting other endpoints not yet adequately addressed, e.g., endocrine disruptors, neurotoxins, immunotoxins, and developmental toxins.
- Additional hazard identification and risk assessment processes that allow for more rapid screening and identification of potential chemicals of concern and that can cope more efficiently with the huge numbers of existing chemicals as well as the ever increasing numbers of new chemicals being invented and placed on the market;

Enormous scientific and technological progress has been achieved that leaves the restriction of chemical status assessment to consideration of only a few chemicals unnecessary. Effect-based and multi – and non-target

chemical screening and European databases open new horizons for holistic monitoring. Pattern analysis offers scope to identify mixtures of concern related to specific sources and effects. New experimental and multivariate approaches could help to link (emerging) chemicals and mixtures to adverse effects and provide new tools for prioritization. Moreover, high-throughput integrated modelling is becoming capable to predict emissions, fate and transport, and exposure of and risks to aquatic ecosystems and human health for thousands of chemicals and all of Europe's rivers. Increasing knowledge on the efficiency of abatement options and packages thereof, exploited by integrated modelling, helps to find tailor-made solutions to minimize chemical footprints and toxic risks.

The proposed interdisciplinary session is fully in line with the goal of the conference "Responsible and innovative research for environmental quality" by presenting major innovation in holistic chemical quality status assessment. The session will demonstrate how the integration and mutual validation of such approaches could open new opportunities to achieve a non-toxic environment, and thus to address the Global Goals for Sustainable Development (SDGs) defined by the UN. The session invites and will bring together experts in effect-based monitoring, analytical chemistry, mixture assessment, exposure and effect modelling, abatement measures and science-policy interfacing, following the goal to address chemical contamination and toxic risks in European water resources as a whole. The session chairs will put specific efforts into the integration of European and national regulators and experts from industry and NGOs to maximize the impact of the new ideas. The contributions to this session are expected to range from technical innovation and cutting edge research via demonstration up to new ideas on implementation, decision making and regulation. The session will also provide space for the discussion of knowledge gaps and research needs, and will attempt to suggest elements for a forward-looking European research agenda.



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PROGRAMME HIGHLIGHTS

★ Special Session

Solutions for Emerging Pollutants: Towards a Holistic Chemical Quality Status Assessment in European Freshwater Resources

Programme

- 08:30 a.m. Introduction
- 08:35 a.m. Multiple exposure to pesticides and other emerging pollutants – problems and solutions for healthy ecosystems and humans | **Manfred Santen**, *Greenpeace e.V., Germany*
- 08:50 a.m. Benefits of international Science & Policy cooperation to promote a paradigm shift in water quality and safety assessment framework | **Milou Dingemans**, *KWR Watercycle Research Institute, Netherlands*
- 09:05 a.m. Chemicals of emerging concern (CEC) in the water cycle – a regulatory perspective | **Manuela Helmecke**, *UBA, Germany*
- 09:20 a.m. Non-target Screening for Holistic Chemical Monitoring and Compound Discovery: Open Science, Real-time and Retrospective Approaches | **Emma Schymanski**, *University of Luxembourg, Luxembourg*
- 09:35 a.m. Toxicological profiling of water samples with in vitro bioassays and assessment using effect-based trigger values | **Beate Escher**, *Helmholtz Centre for Environmental Research (UFZ), Germany*
- 09:50 a.m. Chemical gene interactions for associating contaminants with biological effects | **Anthony Schroeder**, *University of Minnesota-Crookston, USA*
- 10:05 a.m. Break and poster viewing
- 10:50 a.m. Introduction
- 10:55 a.m. Linking chemical pollution and effects – How to identify drivers of toxicity? | **Werner Brack**, *Helmholtz Centre for Environmental Research (UFZ), Germany*
- 11:10 a.m. Toxic mixtures in time-the sequence makes the poison | **Roman Ashauer**, *University of York, UK*
- 11:25 a.m. How to deal with mixtures of pollutants in water resource management? | **Rolf Altenburger**, *Helmholtz Centre for Environmental Research (UFZ), Germany*
- 11:40 a.m. A mixture risk assessment for pollutants that reach humans via the water – fish exposure route | **Andreas Kortenkamp**, *Brunel University London, UK*
- 11:55 a.m. An Advanced Methodological Framework for the Identification of Priority Pollutants and Priority Mixtures of Pollutants in European Freshwaters | **Michael Faust**, *Faust & Backhaus Environmental Consulting, Germany*
- 12:10 p.m. A diagnostic toolbox for ecological effects of pollutant mixtures: a case study application using in situ experiments with microbial communities | **Thomas Backhaus**, *University of Gothenburg, Sweden*
- 12:25 p.m. Lunch and poster viewing
- 1:55 p.m. Introduction
- 2:00 p.m. High-throughput exposure and risk modelling of chemicals in European river basins | **Jos van Gils**, *Deltares, Netherlands*
- 2:15 p.m. Forward-looking on possible impacts of chemical pollution: Modelling lethal and sublethal effects of chemical exposure on population viability for aquatic macroinvertebrates | **Andreas Focks**, *Alterra Wageningen University and Research Centre, Netherlands*
- 2:30 p.m. Eco-epidemiology of aquatic ecosystems: aligning chemical and ecological status | **Leo Posthuma**, *RIVM, Netherlands*
- 2:45 p.m. Unravelling the cocktail of stress: toxics and other stressors impacting on the ecological status of Europe's rivers | **Sebastian Birk**, *University of Duisburg-Essen, Germany*
- 3:00 p.m. Mitigation options for chemicals of emerging concern in surface waters – operationalising solutions-focused risk assessment | **Annemarie van Wezel**, *KWR Watercycle Research Institute, Netherlands*
- 3:15 p.m. Future perspectives of chemical pollution and regulatory development | **John Munthe**, *IVL Swedish Environmental Research Institute, Sweden*
- 3:30 p.m. End

	8:35 a.m.	8:50 a.m.	9:05 a.m.
Session Room A	Challenges in Setting, Meeting and Measuring Specific Protection Goals for Plant Protection Products ...		
	182 Towards a more holistic environmental risk assessment approach of crop protection products as tools in agriculture Peter Dohmen, BASF SE, Germany	183 Identifying ecosystem services-based protection goals Lorraine Maltby, The University of Sheffield, UK	184 ECPA over-arching Specific Protection Goals proposal for EFSA Non-Target Terrestrial Plants, Non-Target Arthropods and Soil Organisms Guidance Documents based on EFSA Ecosystem Services approach Kees Romijn, Bayer CropScience AG, Germany
Session Room B	Innovative Techniques for Enhancing and Monitoring Microbial Activities for In Situ Remediation of Contaminated Sites ...		
	188 Evaluation of plant-driven biostimulation of soil microbiota for the setup of a site-tailored rhizoremediation process in a historical PCB-polluted soil Sara Borin, University of Milan, Italy	189 Enhancement of Biological Reductive Dechlorination by in situ Adsorption onto Colloidal Activated Carbon: From the Lab to the Full Scale Application Marco Papini, Università La Sapienza, Italy	190 An innovative bioelectrochemical reactor for in-situ treatment of groundwater contaminated by monoaromatic petroleum hydrocarbons Federico Aulenta, National Research Council, Italy
Session Room C	New Frontiers in Life Cycle Inventory Data Collection and Modelling Michele De Rosa, Roland Hischier, Heinz Stichnothe		
	194 The end of an era: is data and model exchange across LCA software tools finally possible? Marisa Vieira, Pre Sustainability, Netherlands	195 LCA using real time information: the case of DEA-enabled monitoring of WWTP lifecycle environmental performances Antonino Marvuglia, Luxembourg Institute of Science and Technology (LIST), Luxembourg	196 Enhancing Land Use Change modelling with IO data Jannick Schmidt, Aalborg University, Denmark
Session Room D	Behavioural Ecotoxicology: Unravelling Behavioural Responses to Chemical Contaminants in the Environment ...		
	200 Do laboratory assays predict behaviour in the wild? A study with pharmaceutical pollutants Erin McCallum, Umea University, Sweden	201 Exposure to the widespread androgenic steroid 17β-trenbolone alters behaviour in fish Michael Bertram, Monash University, Australia	202 Selective grazing behaviour of chironomids between three microalgal species under pesticide pressure Julie Neury-Ormanni, Irstea, France
Session Room E	Can Trends in Wildlife Populations Revolutionise Our Understanding of the Impacts of Chemicals on the Environment? ...		
	206 Does single compound risk assessment protect from mixture effects and multiple stress? Peter Von der Ohe, UBA – Federal Environment Agency, Germany	207 Threshold trends in wildlife taxa: challenging and evaluating our chemical – and environmental risk assessments of chemicals and their mixtures Leo Posthuma, RIVM, Netherlands	208 How much do improvements in wastewater treatment benefit downstream macroinvertebrate populations? Andrew Johnson, CEH Wallingford, UK
Session Room M	Environmental Effects of Metals: Improvements to Risk Assessment by Considering Speciation and Bioavailability (I) ...		
	212 Findings of a SETAC Technical Workshop on Bioavailability-based Water Quality Criteria Christian Schlekat, NIPERA, USA	213 Modifying factors for nickel speciation and toxicity in seawater Jim McGeer, Wilfrid Laurier University, Canada	214 Acute bioavailability models for nickel: Development and regulatory application Karel A.C. De Schamphelaere, Ghent University (UGent), Belgium
Session Room N	Microplastics in Freshwater and Terrestrial Systems – Fate, Monitoring and Biological Interactions (I) Ana Marta Gonçalves,...		
	218 Closing the gap between small and smaller: Towards a framework to analyse nano – and microplastics in aqueous environmental samples Patrick Bauerlein, KWR, Netherlands	219 Trace particulate plastic analysis in environmental systems: synthesis and utility of metal doped nano – and microplastic particles and fibers Michael Schmiedgruber, Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland	220 Detection of polymers in treated waste water using TED-GC-MS Caroline Goedecke, Bundesanstalt für Materialforschung und -prüfung, Germany
Session Room O	Air Pollution, Biomonitoring and Human Health (I) Luisella Ciancarella, Carmela Tortorella, Dominique Courcot		
	224 Particulate matter in indoor academic environments: chemical composition, sources, infiltration from outdoor Cinzia Perrino, CNR Institute of Atmospheric Pollution Research, Italy	225 Source apportionment of major species and metals in PM2.5 in urban sites under industrial influences in northern France Frédéric Ledoux, University of Littoral Côte d'Opale, France	226 Estimating the contribution of deposition in the total exposure to PAH's in order to derive save deposition reference values Johan Bierkens, VITO, Belgium
Session Room P	The Added Value of Using Invertebrate Species in Ecotoxicology: New Insights for Environmental Risk Assessment (I) ...		
	230 Transgenerational effects of a parental exposure in the sentinel species <i>Gammarus fossarum</i> Pauline Cribiu, ENTPE, IRSTEA LYON, France	231 Species differences of bioaccumulation, biotransformation and synergistic effects of two fungicides in two aquatic invertebrates Qiuguo Fu, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland	232 Use of <i>Gammarus</i> sp. for toxicity testing. A case study with the growth regulator insecticide fenoxycarb Hélène Arambourou, Irstea Lyon, France
★ Session Room Q	Solutions for Emerging Pollutants – Towards a Holistic Chemical Quality Status Assessment in European Freshwater...		
	236 Multiple exposure to pesticides and other emerging pollutants – problems and solutions for healthy ecosystems and humans Manfred Santen, Greenpeace, Germany	237 Benefits of international Science & Policy cooperation to promote a paradigm shift in water quality and safety assessment framework Milou Dingemans, KWR Watercycle Research Institute, Netherlands	238 Chemicals of emerging concern (CEC) in the water cycle – a regulatory perspective Manuela Helmecke, Umweltbundesamt (UBA), Germany

	9:20 a.m.	9:35 a.m.	9:50 a.m.	
Session Room A	...Lorraine Maltby, Peter Campbell			COFFEE BREAK
	185 Protection goals for non-target terrestrial plants: Is in-field protection of beneficial weeds achievable? Joanna Davies , <i>Syngenta, UK</i>	186 Specific Protection Goals and the Assessment of Key Drivers in the Aquatic Environment: Are we doing the right thing? Rachel Benstead , <i>Fera Science Ltd., UK</i>	187 Is "biodiversity" a measurable study endpoint? Frank Bakker , <i>Eurofins-Mitox, Netherlands</i>	
Session Room B	...Andrea Franzetti, Luca Alberti, Anna Barra Caracciolo, Paola Grenni			
	191 Identification of major HMW-PAH degrading communities during active bioremediation of a PAH-contaminated soil Joaquim Vila , <i>Instituto de Recursos Naturales y Agrobiología, Spain</i>	192 Stable Isotope Raman Microspectroscopy and Surface-Enhanced Raman Scattering: Analysis of Microorganisms at Single Cell Level Natalia Ivleva , <i>Technical University of Munich, Germany</i>	193 Flux chambers data for the estimation of the biodegradation rate in the subsurface at hydrocarbon contaminated sites Renato Baciocchi , <i>University of Rome Tor Vergata, Italy</i>	
Session Room C	New Frontiers in Life Cycle Inventory Data Collection and Modelling Michele De Rosa , Roland Hischier , Heinz Stichnothe			
	197 WSmix: a globally regionalised Water Supply mix framework with current and prospective databases for use in LCA Susana Leão , <i>IRSTEA Montpellier, France</i>	198 The evolution of database – and tool development for Agri-footprint Bart Durlinger , <i>Blonk Consultants, Netherlands</i>	199 Poster spotlight: TU097, TU098	
Session Room D	...Minna Saaristo, Kathryn Arnold, Bryan Brooks, Gregory Pyle			
	203 Environmental levels of anxiolytic pharmaceuticals alter migration of Atlantic salmon in both lab and field Tomas Brodin , <i>Umea University, Sweden</i>	204 Can personality influence the response of fish to environmental contaminants? Miguel Oliveira , <i>University of Aveiro, Portugal</i>	205 Effects of fluoxetine on anxiety-related behaviours and physiology in a songbird Sophia Whitlock , <i>Environment Department, University of York, UK</i>	
Session Room E	...Andrew Johnson, John Sumpter			
	209 Biometric parameters of the bream (<i>Abramis brama</i>) as indicators for long-term changes in environmental quality – results from the German ESB Diana Teubner , <i>Trier University, Germany</i>	210 The burden of being a slow-life cycle species: freshwater fish population dynamics in France, correlations to species life traits and implications in ecotoxicology Raphael Santos , <i>Hepia, University of Applied Sciences Western Switzerland, Switzerland</i>	211 The use of natural historical collections to reconstruct temporal trends of the exposure to major contaminants in different white-tailed eagle (<i>Haliaeetus albicilla</i>) populations Jiachen Sun , <i>Antwerp University, Belgium</i>	
Session Room M	...Christian Schlekot, Graham Merrington, Jean Mathieu Renaud, Steven Siciliano			
	215 Bioavailability and bioaccumulation of uranium: From lab experiment to modelling Angélique Husson , <i>Mines ParisTech, France</i>	216 Empirical Investigations into the Toxicity and Bioavailability of Aluminium to Aquatic Species Bill Stubblefield , <i>Oregon State University, USA</i>	217 Main factors responsible for the environmental degradation of rivers in a basin dedicated to gold mining using ecological predictive models. Case study Ponce Enríquez Luis Dominguez , <i>Escuela Superior Politécnica del Litoral ESPOL, Ecuador</i>	
Session Room N	...Nelson Abrantes, Alice Horton, Claus Svendsen			
	221 Soil and sludge: A time and cost-effective method for extracting microplastics from complex, organic-rich environmental matrices Rachel Hurley , <i>NIVA – Norwegian Institute for Water Research, Norway</i>	222 Mapping microplastics in sludge during a country-wide investigation of wastewater treatment plants Amy Lusher , <i>NIVA Norwegian Institute of Water Research, Norway</i>	223 The Influence of Weathering on the Sinking Behavior of Microplastic in Freshwater and all Surface Waters Hans Peter Arp , <i>NGI, Norway</i>	
Session Room O	Air Pollution, Biomonitoring and Human Health (I) Luisella Ciancarella , Carmela Tortorella , Dominique Courcot			
	227 A bioassay-directed analysis as a biomonitoring tool to assess the endocrine-disrupting potency of indoor air multi-contamination Lucie Oziol , <i>University of Paris-Sud, France</i>	228 The Modifying Effects of Ambient Air Pollution on Indoor Air Quality, Impacts on Human Health Harold Rickenbacker , <i>University of Pittsburgh, USA</i>	229 Innovative and Low-Cost Monitoring Techniques for Evaluating the Spatial Components: Validation and Field Application Lorenzo Massimi , <i>Sapienza University of Rome, Italy</i>	
Session Room P	...Carlos Barata, João Pestana, Bruno Campos			
	233 Adaptation of <i>Gammarus pulex</i> to agricultural insecticide contamination in streams Naeem Shahid , <i>Helmholtz Centre for Environmental Research UFZ, Germany</i>	234 The use of antifouling biocides in a changing world: combined impact of nanoengineering biocides and thermal stress in a coral species Violeta Ferreira , <i>University of Aveiro, Portugal</i>	235 Assessing interspecific variation in Imidacloprid toxicity in earthworms Alex Robinson , <i>Centre for Ecology & Hydrology, UK</i>	
★	...Resources (I) Werner Brack , Rolf Altenburger , Jos van Gils , John Munthe			
Session Room Q	239 Non-target Screening for Holistic Chemical Monitoring and Compound Discovery: Open Science, Real-time and Retrospective Approaches Emma Schymanski , <i>University of Luxembourg, Luxembourg</i>	240 Toxicological profiling of water samples with in vitro bioassays and assessment using effect-based trigger values Beate Escher , <i>Helmholtz Centre for Environmental Research GmbH – UFZ, Germany</i>	241 Chemical gene interactions for associating contaminants with biological effects Anthony Schroeder , <i>University of Minnesota-Crookston, USA</i>	

	10:55 a.m.	11:10 a.m.	11:25 a.m.
Session Room A	Anthropogenic and Natural Sources of Environmental Contaminants Highlight the Impacts of Opposing and Conflicting...		
	242 The triazole story: Clarification of sources, fate and footprint in the environment of the molecule 1,2,4-triazole Martin Blank , <i>Bayer AG Crop Science Division, Germany</i>	243 The triazole story: Assessment of the background abundance of 1H-1,2,4-triazole in selected German forest soils Markus Telscher , <i>Bayer AG Division CropScience/ Environmental Fate, Germany</i>	244 Challenges of a groundwater monitoring study design for a substance with multiple sources: determining risk for groundwater from 1,2,4-Triazole formed from fungicides used in arable crops in Germany Dirk Liss , <i>SGS Institut Fresenius GmbH, Germany</i>
Session Room B	Persistence & Biodegradation Assessment Graham Whale, Thouand Gerald, Jacques Lharidon, Arnaud Boivin		
	248 Why biodegradable chemicals persist in the environment? A look at bioavailability José Julio Ortega-Calvo , <i>Instituto de Recursos Naturales y Agrobiología, Spain</i>	249 Strategy for ready biodegradability evaluation of poorly water-soluble organic compounds in aqueous media Cyril Sweetlove , <i>l'OREAL SA, France</i>	250 Impact of temperature on micropollutants removal in an activated sludge system Paola Meynet , <i>Newcastle University, UK</i>
Session Room C	Integrating Life Cycle Approaches Towards a Sustainable Circular Economy (I) Monia Niero, Eric Van Genderen, Chris Bayliss		
	254 How can we measure a sustainable circular economy? Unveiling current indicators for the life cycle of products Hanna Helander , <i>University of Freiburg, Germany</i>	255 Making sense of circularity indicators with Multi Criteria Decision Analysis Monia Niero , <i>Aalborg University, Denmark</i>	256 Consistent allocation using archetypes of LCA Goal and Scope definitions Dieuwertje Schrijvers , <i>ISM, France</i>
Session Room D	Informed Substitution of Hazardous Chemicals for Circular Economy: Science and Practice Peter Simpson, Ian Cousins,...		
	260 Substitution of PFOS under the Stockholm Convention Martien Janssen , <i>Nat. Inst. Publ. Health Environ., Netherlands</i>	261 Experiences of "Substitution in Practice" Christina Jönsson , <i>Swerea IVF AB, Sweden</i>	262 Implementing a life cycle perspective in chemical alternatives assessment – the case of per – an polyfluoroalkyl substances in textile applications Hanna Holmquist , <i>Chalmers University of Technology, Sweden</i>
Session Room E	Big Data Analysis in Ecotoxicology: How to Get New Information Out of Existing Data? Gert Everaert, Jörg Römbke, Martina Vijver		
	266 EDAPHOBASE – soil biodiversity data warehouse and its applications in ecotoxicology Martina Ross-Nickoll , <i>RWTH Aachen University, Institute for Environmental Research, Germany</i>	267 Diving into REACH database with Rstudio to produce input data for the USEtox model for thousands of chemicals Erwan Saouter , <i>EU Commission JRC, Italy</i>	268 The effect of modelling decisions on macroinvertebrate sensitivity modelling Sanne Berg , <i>Wageningen University & Research, Netherlands</i>
Session Room M	Environmental Effects of Metals: Improvements to Risk Assessment by Considering Speciation and Bioavailability (II) ...		
	272 Assessment and management of stormwater on sediment recontamination due to metal contaminants Ilektra Drygiannaki , <i>Texas Tech University, USA</i>	273 The effect of percolation and form on lead bioavailability and toxicity to <i>Enchytraeus crypticus</i> Lulu Zhang , <i>VU University Amsterdam, Netherlands</i>	274 To leach or not to leach: Soil enzymatic responses to metal mixture species Fred Kobby Awuah , <i>University of Saskatchewan, Canada</i>
Session Room N	Microplastics in Freshwater and Terrestrial Systems – Fate, Monitoring and Biological Interactions (II) Ana Marta Gonçalves,...		
	278 Profile of microplastics in water and sediments of Antuà river in Portugal Ana Gonçalves , <i>MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal</i>	279 Microplastics in German rivers – first monitoring results Maren Hess , <i>LANUV NRW, Germany</i>	280 Exploring the relation between plastic concentration and river discharge in an urban river Stephan Wagner , <i>Helmholtz Centre for Environmental Research GmbH – UFZ, Germany</i>
Session Room O	Air Pollution, Biomonitoring and Human Health (II) Luisella Ciancarella, Carmela Tortorella, Dominique Courcot		
	284 Analysis of the contribution of a coal-fired power plant to PM10 concentrations in four sites in Southern Italy Daniele Contini , <i>Istituto di Scienze dell'Atmosfera e del Clima, CNR, Italy</i>	285 Air pollution toxicology: is it the right time to leave the bench for the field? A case study integrated approach Maurizio Gualtieri , <i>ENEA, Italy</i>	286 Indoor and Outdoor air contamination by endocrine disruptor pollutants in the North part of France Elodie Moreau-Guigon , <i>EPHE, PSL, France</i>
Session Room P	The Added Value of Using Invertebrate Species in Ecotoxicology: New Insights for Environmental Risk Assessment (II) ...		
	290 The role of the p38-activated protein kinase signaling pathway-mediated autophagy in cadmium-exposed monogonont rotifer <i>Brachionus koreanus</i> Hye-Min Kang , <i>Sungkyunkwan University, South Korea</i>	291 Effects of triclosan (TCS) on antioxidant system and oxidative stress-mediated gene expression in the copepod <i>Tigriopus japonicus</i> Jun Chul Park , <i>Sungkyunkwan University, South Korea</i>	292 The protective role of multixenobiotic resistance (MXR)-mediated ATP-binding cassette (ABC) transporters in biocides-exposed rotifer <i>Brachionus koreanus</i> YoungHwan Lee , <i>Sungkyunkwan University, South Korea</i>
★ Session Room Q	Solutions for Emerging Pollutants – Towards a Holistic Chemical Quality Status Assessment in European Freshwater...		
	296 Linking chemical pollution and effects – How to identify drivers of toxicity? Werner Brack , <i>Helmholtz Centre for Environmental Research UFZ, Germany</i>	297 Toxic mixtures in time-the sequence makes the poison Roman Ashauer , <i>University of York, UK</i>	298 How to deal with mixtures of pollutants in water resource management? Rolf Altenburger , <i>UFC Centre for Environmental Research, Germany</i>

	11:40 a.m.	11:55 a.m.	12:10 p.m.	
Session Room A	...Regulations Martin Blank, Dirk Liss, Nicole Baran			LUNCH BREAK
	245 Leaching of 1,2,4-triazole through agricultural fields in Denmark Annette Rosenbom , <i>Geological Survey of Denmark and Greenland, Denmark</i>	246 The triazole story: Differentiation between different 1,2,4-Triazole sources using a 13C stable isotope labelled azole-fungicide Andrew Chapple , <i>Bayer Crop Science AG, Germany</i>	247 Overlooked sources of trifluoroacetate in the water cycle – consequences for drinking water supply and regulatory measures Karsten Nödler , <i>TZW DVGW-Technologiezentrum Wasser, Germany</i>	
Session Room B	Persistence & Biodegradation Assessment Graham Whale, Thouand Gerald, Jacques Lharidon, Arnaud Boivin			LUNCH BREAK
	251 Findings from an international ring test for an improved marine biodegradation screening test Amelie Ott , <i>Newcastle University, UK</i>	252 Relevance of photolysis for the fate of pendimethalin in deeper water layers – results of a scale-up approach according to OECD TG 309 Dieter Hennecke , <i>Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany</i>	253 Poster spotlight: TU267, TU268, TU269	
Session Room C	Integrating Life Cycle Approaches Towards a Sustainable Circular Economy (I) Monia Niero, Eric Van Genderen, Chris Bayliss			LUNCH BREAK
	257 Sustainability assessment of product lifetime extension through increased repair and reuse Ellen Bracquene , <i>KU Leuven, Belgium</i>	258 Building – Rooftop Symbiosis at the next level. Improving urban agriculture through circular economy strategies Martí Salís , <i>ICTA-UAB, Spain</i>	259 Chemical recycling of plastic packaging waste – A life cycle perspective on PET recycling Raoul Meys , <i>RWTH Aachen University, Germany</i>	
Session Room D	...Hugo Waeterschoot, Patrik Andersson			LUNCH BREAK
	263 How much function do we need in textiles? Strategies for replacing PFASs based on end-user requirements Steffen Schellenberger , <i>Stockholm University, Sweden</i>	264 Analysis of the technical and economic feasibility of alternatives to lead gunshot Anna Mazzolini , <i>ECHA, Finland</i>	265 The road to successful substitution – case studies Nathalie Vallotton , <i>Dow Europe GmbH, Switzerland</i>	
Session Room E	Big Data Analysis in Ecotoxicology: How to Get New Information Out of Existing Data? Gert Everaert, Jörg Römbke, Martina Vijver			LUNCH BREAK
	269 New approach facing new challenges in Ecotoxicology: D counter Sizenando Abreu , <i>University of Aveiro, Portugal</i>	270 Ceriodaphnia is equisensitive to Daphnia and should fulfil invertebrate regulatory toxicity requirements Kristin Connors , <i>The Procter & Gamble Company, USA</i>	271 Poster spotlight: TU001, TU002, TU003	
Session Room M	...Christian Schlekot, Graham Merrington, Jean Mathieu Renaud, Steven Siciliano			LUNCH BREAK
	275 Soil moisture influences the avoidance behaviour of <i>Folsomia candida</i> and <i>Enchytraeus crypticus</i> in metal(loid)-contaminated soils M. Nazaret González-Alcaraz , <i>Department of Biology & CESAM – University of Aveiro, Portugal</i>	276 Manganese bioavailability in legacy contaminated soils by medieval metallurgical wastes Frédéric Gimbert , <i>University of Bourgogne Franche-Comté, France</i>	277 Chemical and ecotoxicological effects of the use of residues from the pulp and paper industry for the remediation of soils degraded by mining activities Paula Alvarenga , <i>University of Lisboa – Instituto Superior de Agronomia, Portugal</i>	
Session Room N	...Nelson Abrantes, Alice Horton, Claus Svendsen			LUNCH BREAK
	281 Microplastic pollution in upstream river catchments Thomas Stanton , <i>The University of Nottingham, UK</i>	282 Microplastics in stormwater ponds Fan Liu , <i>Aalborg University, Denmark</i>	283 Towards a more realistic assessment of microplastics as pollutant transporter: a combined experimental and modelling study Sven Seidensticker , <i>Eberhard Karls Universität Tübingen, Germany</i>	
Session Room O	Air Pollution, Biomonitoring and Human Health (II) Luisella Ciancarella, Carmela Tortorella, Dominique Courcot			LUNCH BREAK
	287 Air pollution and health: early biological effects in children exposed to air pollutants and genotoxic effect of PM0.5 in different Italian towns Sara Bonetta , <i>University of Torino, Italy</i>	288 Source apportionment of PM near steel plant by electron microscopy Alessandra Genga , <i>University of Salento, Italy</i>	289 Oxidized transformation products of polycyclic aromatic hydrocarbons in secondary organic aerosol particles Amber Kramer , <i>Oregon State University, USA</i>	
Session Room P	...Carlos Barata, João Pestana, Bruno Campos			LUNCH BREAK
	293 CRISPR/Cas9 genome editing generates <i>Daphnia magna</i> (loss of function) mutants for TRH and ABCB1 genes. Implications for (eco)toxicological testing Bruno Campos , <i>Unilever R&D, UK</i>	294 Assessment of Effects and Recovery of Chaoborus Populations in a Novel-Concept Microcosm Experiment Clare Gamblin , <i>AgroChemex Environmental Ltd, UK</i>	295 Poster spotlight: TU108, TU109, TU110	
★ Session Room Q	...Resources (II) Werner Brack, Rolf Altenburger, Jos van Gils, John Munthe			LUNCH BREAK
	299 A mixture risk assessment for pollutants that reach humans via the water – fish exposure route Andreas Kortenkamp , <i>Brunel University London, UK</i>	300 An Advanced Methodological Framework for the Identification of Priority Pollutants and Priority Mixtures of Pollutants in European Freshwaters Michael Faust , <i>Faust & Backhaus Environmental Consulting, Germany</i>	301 A diagnostic toolbox for ecological effects of pollutant mixtures: a case study application using in situ experiments with microbial communities Thomas Backhaus , <i>University of Gothenburg, Sweden</i>	

	2:00 p.m.	2:15 p.m.	2:30 p.m.
Session Room A	Derivation, Validation and Implementation of Environmental Quality Benchmarks Bryan Brooks, Kenneth Leung,...		
	302 Questioning annual average concentrations for plant protection products – TKTD modelling of real exposure profiles Marion Junghans , <i>Swiss Centre for Applied Ecotoxicology EAWAG – EPF, Switzerland</i>	303 Revision of 62 Environmental Quality Standards – lessons learned Muris Korkaric , <i>Swiss Centre for Applied Ecotoxicology, Switzerland</i>	304 Endocrine disrupting properties: How far and consistent they are considered deriving Water Framework Directive Environmental Quality Standards? A case study tackling French and EU EQS values Alice James-Casas , <i>INERIS, France</i>
Session Room B	Microbial Community Ecotoxicology in Environmental Risk Assessment and Ecosystem Monitoring Ahmed Tlili,...		
	308 The impact of anthropogenic activities on bacterial and viral diversity in the Eastern Mediterranean Sea Anastasia Tsiola , <i>hcmr, Greece</i>	309 Impacts of stormwater on microbial community structure and function in estuarine sediments Katherine Dafforn , <i>Macquarie University, Australia</i>	310 Drought as environmental driver on ciliates and micrometazoa communities in a multistressors scenario. An experimental approach Julio C López-Doval , <i>ICRA Catalan Institute for Water Research, Spain</i>
Session Room C	Integrating Life Cycle Approaches Towards a Sustainable Circular Economy (II) Monia Niero, Eric Van Genderen, Chris Bayliss		
	314 Region-specific life cycle inventories for tailings disposal inecoinvent v3 David Turner , <i>EMPA, Switzerland</i>	315 Closing the copper cycle in the EU-28: Scenario analysis and potentials for GHG emissions reduction Luca Ciacci , <i>Alma Mater Studiorum – University of Bologna, Italy</i>	316 Multi-Objective Reverse Supply Chain Network Design of Fluorescent Lamps with Piecewise Linear Functions Changgun Lee , <i>University College London, UK</i>
Session Room D	Safe by Design: Responsible and Innovative Research for Safe and Sustainable Chemistry Ester Papa, Elena Semenzin		
	320 Silica coating for the control of nano-reactivity Simona Ortelli , <i>CNR ISTECC, Italy</i>	321 Framework for the optimal design of sustainable chemical processes Raul Calvo-Serrano , <i>Imperial College London, UK</i>	322 A decision framework for substances of very high concern at the interface of chemicals, products and waste Pim Wassenaar , <i>National Institute for Public Health and the Environment (RIVM), Netherlands</i>
Session Room E	Recent Developments in Environmental Risk Assessment for Pollinators Ivo Roessink, Nicole Hanewald, Jacoba Wassenberg		
	326 Managing on the Margins: The confluence of Modern Agriculture and Apiculture Zac Browning , <i>Brownings Honey Co., Inc., USA</i>	327 A new multi-dimensional method for evidence synthesis and weighting in bee risk assessment Alessio Ippolito , <i>EFSA – European Food Safety Authority, Italy</i>	328 Pesticide Exposure Assessment Paradigm for Bumble Bees Jozef van der Steen , <i>Alveus AB Consultancy, Netherlands</i>
Session Room M	Understanding Human and Environmental Exposure to Chemicals in Urban Systems Todd Guoin, Miriam Diamond,...		
	332 Consumption of products – a proxy for changes in chemical flows in urban areas and to the environment? Emma Undeman , <i>Stockholm University, Sweden</i>	333 High-throughput assessment of use-phase exposures to chemicals in building materials Olivier Jolliet , <i>University of Michigan, USA</i>	334 OPEs – Where do they come from, where do they go? A case study from Toronto, Canada Miriam Diamond , <i>University of Toronto, Canada</i>
Session Room N	Microplastics in Freshwater and Terrestrial Systems – Fate, Monitoring and Biological Interactions (III) Ana Marta Gonçalves,...		
	338 Modelling of the environmental release of macro – and microplastics for seven different polymers Delphine Wenger , <i>Empa Swiss Federal Laboratories for Materials Science and Technology, Switzerland</i>	339 Modelling Microplastics in Rivers in the US Christopher Holmes , <i>Waterborne Environmental, Inc., USA</i>	340 The routes to uptake and bioaccumulation of nanoplastics in freshwater sediments Richard Cross , <i>University of Exeter, UK</i>
Session Room O	When Ecotoxicology Meets Trophic Ecology Clémentine Fritsch, Michael Danger, M. Pereira		
	344 Does stress propagate along aquatic food chains? An experimental approach with a tri-trophic brown food chain Eva Fernandes , <i>University of Koblenz Landau, Germany</i>	345 Accounting for trophic relationships in fish bioconcentration models applied as emergent-pollutants risk-assessment tools Hans Baveco , <i>Wageningen Environmental Research, Netherlands</i>	346 Model-based explorations of the variability in lake trout BAFs caused by physiology and trophic relationships Sivani Baskaran , <i>University of Toronto – Scarborough, Canada</i>
Session Room P	Integrated Approaches in Ecotoxicology: Bridging the Gap Between Experimental Toxicology and Mechanistic Modelling ...		
	350 Toxicokinetic-toxicodynamic models as new tools for environmental risk assessment Sandrine Charles , <i>University Lyon 1, France</i>	351 Lethal and sublethal impacts of neonicotinoids and copper nano-pesticides on the energy budgets of an estuarine amphipod Erik Muller , <i>University of California, USA</i>	352 A biology-based model to analyze growth data of earthworms exposed to copper at different development stages Sylvain Bart , <i>INRAAgroParisTech, France</i>
★ Session Room Q	Solutions For Emerging Pollutants – Towards a Holistic Chemical Quality Status Assessment in European Freshwater...		
	356 High-throughput exposure and risk modelling of chemicals in European river basins Jos van Gils , <i>DELTA RES, Netherlands</i>	357 Forward-looking on possible impacts of chemical pollution: Modelling lethal and sublethal effects of chemical exposure on population viability for aquatic macroinvertebrates Andreas Focks , <i>Alterra Wageningen University and Research Centre, Netherlands</i>	358 Eco-epidemiology of aquatic ecosystems: Aligning chemical and ecological status Leo Posthuma , <i>RIVM, Netherlands</i>

	2:45 p.m.	3:00 p.m.	3:15 p.m.	
Session Room A	...Michael Warne			COFFEE BREAK
	305 Bringing water quality benchmark derivation approaches into the 21st century Rick van Dam, Environmental Research Institute of the Supervising Scientist, Australia	306 The quest for consistent environmental protection: The challenge of variable water quality guidelines between regulatory jurisdictions Graham Merrington, WCA Environment Limited, UK	307 A Call for Greater International Collaboration in Developing Environmental Quality Benchmarks: Many Hands Make Lighter Work! Michael Warne, Coventry University, UK	
Session Room B	...Mechthild Schmitt-Jansen, Kristian Brandt			COFFEE BREAK
	311 Linking pesticide pollution with periphyton quality in agricultural streams: A fatty-acids approach Natàlia Corcoll, University of Gothenburg, Sweden	312 Estrone and triclosan mixture alters soil metagenomics during degradation Deborah Carr, Texas Tech University, USA	313 Poster spotlight: TU014, TU015, TU016	
Session Room C	Integrating Life Cycle Approaches Towards a Sustainable Circular Economy (II) Monia Niero, Eric Van Genderen, Chris Bayliss			COFFEE BREAK
	317 The use of Life Cycle Assessment to adjust consumption taxes: The concept of a Damage and Value Added Tax Benoit Timmermans, Université Libre de Bruxelles, Belgium	318 Towards global guidance on LCIA of mineral resource use – outcomes from the UN Environment Life Cycle Initiative task force Markus Berger, Technische Universität Berlin, Germany	319 Poster spotlight: TU214, TU215, TU237	
Session Room D	Safe by Design: Responsible and Innovative Research for Safe and Sustainable Chemistry Ester Papa, Elena Semenzin			COFFEE BREAK
	323 Emissions of PFASs and alternatives from the durable water repellence layer (DWR) of textiles during use Ike Veen, Institute for Environmental Studies (IVM) VU University Amsterdam, Netherlands	324 Chemicals in plastic packaging: Prioritization of hazardous substances Jane Muncke, Food Packaging Forum Foundation, Switzerland	325 A Safe by Design framework to support the development of sustainable nano-enabled products for the restoration of works of art Elisa Giubilato, University Ca Foscari of Venice, Italy	
Session Room E	Recent Developments in Environmental Risk Assessment for Pollinators Ivo Roessink, Nicole Hanewald, Jacoba Wassenberg			COFFEE BREAK
	329 Industry research and approaches to improve the bee risk assessment scheme in Europe Ed Pilling, Dow Agrosciences, UK	330 Standardization of an in vitro larval rearing method for stingless bee species Melipona scutellaris for use in toxicological bioassay studies Annelise Rosa-Fontana, Unesp - Institute of Biology, Brazil	331 Poster spotlight: TU038, TU048, TU052	
Session Room M	...Antonia Praetorius, Alistair Boxall			COFFEE BREAK
	335 Drivers of pharmaceutical exposure in urban river systems Emily Burns, University of York, UK	336 Past vs. recent emissions of PCBs from the city of Brescia (Italy): Coupling monitoring data with a multimedia fate model to investigate PCB regional fate Elisa Terzaghi, University of Insubria (Como), Italy	337 Using a Dynamic, Aggregate Exposure Model to Identify Far - and Near-Field Contributions to Human PCB Exposure through Time Li Li, University of Toronto at Scarborough, Canada	
Session Room N	...Nelson Abrantes, Alice Horton, Claus Svendsen			COFFEE BREAK
	341 Life-history and biochemical responses of Chironomus riparius exposed to different sized microplastics Carlos Silva, CESAM & University of Aveiro, Portugal	342 The effects of rigid and flexible Polyvinyl chloride (PVC) microplastic particles on the transcriptome of Daphnia magna Benjamin Trotter, University of Bayreuth, Germany	343 Poster spotlight: TU149, TU150, TU151	
Session Room O	When Ecotoxicology Meets Trophic Ecology Clémentine Fritsch, Michael Danger, M. Pereira			COFFEE BREAK
	347 Influence of an agriculture-associated toxicity gradient on a riparian predator-prey relationship in Romania Nadin Graf, University of Koblenz-Landau, Germany	348 Migration effects on pollutants in eggs of Arctic-breeding geese Daniel Hitchcock, University of Oslo, Norway	349 Trophic Magnification of Persistent Organic Pollutants Within A Terrestrial Food-Web of An Avian Top Predator, the Cooper's Hawk (Accipiter Cooperii) John Elliott, Environment Canada, Canada	
Session Room P	...Andre Gergs, Jean-Pierre Desforges, Elke Zimmer			COFFEE BREAK
	353 Connecting suborganismal and organismal responses using Dynamic Energy Budget Modeling and the ecological model species Fundulus heteroclitus exposed to dioxin-like chemicals Louise Stevenson, UCSB, USA	354 Quantitative Adverse Outcome Pathway Modelling of Endocrine Active Toxicants in Rainbow Trout Irvin Schultz, NOAA NWFSC, USA	355 Development of a PBPK model for metal accumulation in fish infected with acanthocephalan parasites Yen Le, University of Duisburg-Essen, Germany	
Session Room Q	...Resources (III) Werner Brack, Rolf Altenburger, Jos van Gils, John Munthe			
	359 Unravelling the cocktail of stress: Toxics and other stressors impacting on the ecological status of Europe's rivers Sebastian Birk, University of Duisburg-Essen, Germany	360 Mitigation options for chemicals of emerging concern in surface waters – operationalizing solutions-focused risk assessment Annemarie van Wezel, KWR Watercycle Research Institute, Netherlands	361 Future perspectives of chemical pollution and regulatory development John Munthe, IVL Swedish Environmental Research Institute Ltd, Sweden	

TU | Tuesday Poster Presentations

Schedule

Setup	7:30 a.m.–08:30 a.m.
Poster Viewing	10:05 a.m.–10:50 a.m.
Poster Viewing	12:25 p.m.–1:55 p.m.
Poster Viewing	3:30 p.m.–4:15 p.m.
Poster Social	5:15 p.m.–6:15 p.m.
Take Down	6:15 p.m.–6:45 p.m.

Poster Corners

Fungicides – An overlooked compound group? Fate, effects, risk assessment and mitigation (PC) | Ralf Bernhard Schäfer, Jochen Zubrod, Jes Rasmussen, Gertie Arts

Discussion at 5:15 p.m.–5:45 p.m.

TUPC01 | Overview on the risks from fungicides for aquatic organisms | Jochen Zubrod, University of Koblenz-Landau, Germany

TUPC02 | Relative tolerance of aquatic organisms to fungicides | Andreu Rico, IMDEA Water Institute, Spain

TUPC03 | Fungicide effects propagate through the detrital food chain in streams | Jes Rasmussen, Aarhus University, Denmark

TUPC04 | Mitigation of fungicide exposure of stream ecosystems within agricultural catchments | Mirco Bundschuh, University of Koblenz-Landau, Germany

TUPC05 | Towards a better exposure assessment of antifungal azoles | Nicolas Creusot, Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland

TUPC06 | Is the EFSA effect assessment approach for fungicides sufficiently protective for aquatic ecosystems? | Theo C.M. Brock, Alterra, Wageningen University and Research Centre, Netherlands

Developments in the ecological and human health risk assessment of biopesticides: Microorganisms, semiochemicals and botanicals (PC) | Elizabeth Collison, Jacobijn van Etten, Alison Hamer

Discussion at 5:45 p.m.–6:15 p.m.

TUPC07 | Ecotoxicological studies performed to assess the potential of a yeastlike fungus, *Aureobasidium pullulans*, and the response of evaluating authorities | Christina Donat, bio-ferm GmbH, Austria

TUPC08 | Ecological testing and risk assessment considerations for microbial active substances | Jacoba Wassenberg, Ctgh, Netherlands

TUPC09 | Human and environmental Risk assessment for microorganisms – to what extent? | Adi Cornelese, GAB Consulting GmbH, Germany

TUPC10 | Ecotoxicological testing to support the assessment of Microbials | Jutta Mütter, GAB Consulting GmbH, Germany

TUPC11 | Microbiological Quantification Methods for MPCAs – Applicability to a Range of Microorganisms and Different Substrates | Andre Dabrunz, Eurofins Agrosience Services Ecotox GmbH, Germany

When ecotoxicology meets trophic ecology (PC) | Clémentine Fritsch, Michael Danger, M. Pereira

Discussion at 5:15 p.m.–5:45 p.m.

TUPC17 | Modelling bioaccumulation of persistent organic pollutants in Arctic food chains | Renske Hoondert, Radboud University Nijmegen, Netherlands

TUPC18 | Distribution and Trophic Magnification of Dechloranates, HBCDs, PCNs, and Other Legacy POPs in the Maritime Antarctic Ecosystem | Jun-Tae Kim, Korea Polar Research Institute, South Korea

TUPC19 | Bioconcentration as the predominant mechanism for fish PCB contamination in alpine lakes | Thibault Masset, Université Savoie Mont Blanc, France

TUPC20 | The role of diet and age: Organohalogen accumulation in an avian top predator | Mari Løseth, The Norwegian University of Science and Technology, Norway

TUPC21 | Fate of PAH, phthalates and their metabolites in an urban river food web | Aurelie Goutte, UPMC UMR METIS 7619, France

Poster Sessions

Big data analysis in ecotoxicology: How to get new information out of existing data? (P) | Gert Everaert, Jörg Römbke, Martina Vijver

TU001 | Holistic evaluation of long-term field effect earthworm studies with the fungicide Boscalid | Frank Staab, BASF SE, Germany

TU002 | Contextualising statistically significant differences observed in mesocosm studies using historical control data | Hanna Schuster, Cambridge Environmental Assessments, UK

TU003 | Enhancing the utility of the ECOTOX knowledgebase via ontology-based semantics mapping | Kellie Fay, CSRA, Inc., USA

TU004 | ECOTOX Knowledgebase: New tools for data visualization and database interoperability | Kellie Fay, CSRA, Inc., USA

TU005 | Edaphostat – A web application for automated and interactive meta-analysis of environmental data from the Edaphobase data warehouse | Jonas Hausen, RWTH Aachen University, Germany

TU006 | Deriving USEtox aquatic freshwater toxicity Effect factors from the REACH database for thousands of chemicals using R-Studio program | Erwan Saouter, EU Commission JRC, Italy

TU007 | Deriving physico-chemical input data for the USEtox model from the REACH database for thousands of chemicals using R-Studio program | Erwan Saouter, EU Commission JRC, Italy

TU008 | Toward a possible Toxicity Test Battery integrated Index for Nanomaterials | Maria Oliviero, University Parthenope, Italy

TU009 | Historical analysis of the use of plant protection products in apple orchards (1970-2014): Combining handwritten farmers records with electronic data | Laura de Baan, Agroscope, Switzerland

TU010 | Using long-term datasets to assess the impacts of neonicotinoids on farmland bird populations in the UK over the last 21 years | Rosie Lennon, The University of York, UK

TU011 | Regression-based models reveal sources of pollutants in Norwegian marine sediments | Gert Everaert, Flanders Marine Institute, Belgium

TU012 | Application of a 'weight-of-evidence' model for assessing sediment quality and associated hazard with offshore gas platforms discharging produced water | Andrea Tornambè, ISPRA, Italy

TU013 | Utilising biomarkers in a multispecies approach to relate organochlorine exposure and biological effects | Victor Wepener, North-West University – School of Biological Sciences, South Africa

Microbial community ecotoxicology in environmental risk assessment and ecosystem monitoring (P) | Ahmed Tlili, Mechthild Schmitt-Jansen, Kristian Brandt

TU014 | Identifying bacterial indicator taxa along an urbanization gradient in stream ecosystems | Marie Simonin, Duke University, USA

TU015 | Diuron sorption in freshwater biofilms: Determination of isotherms | Betty Chaumet, Irstea, France

TU016 | New insights into the biotransformation of sulfluramid: Role of ammonia oxidizing bacteria and community shifts | Karina Yew-Hoong Gin, National University of Singapore, Singapore

TU017 | How can three herbicides impact the fatty acids of the freshwater diatom *Gomphonema gracile*? | Floriane Demailly, IRSTEA Bordeaux / Ifremer Nantes / EPOC (LPTC), France

TU018 | Effects of Nickel on cell cycle progression, growth and antioxidant enzymes of green algae *C. reinhardtii*? | Walter Di Marzio, CONICET-PRIET UNLU, Argentina

TU019 | Use of BioLogEcoPlate™ to evaluate the effects of ZnO nanoparticles on soil microbial communities | Simona Schiavo, ENEA CR, Italy

TU020 | Environmental factors-regulated disease dynamics of tilapia lake virus (TiLV) transmission in farmed tilapia ponds | Tien Hsuan Lu, Nation Taiwan University, Taiwan

TU021 | Natural organic matter alleviates TiO₂ and CuO nanoparticle toxicity in four algal species | Elise Joonas, National Institute of Chemical Physics and Biophysics, Estonia

TU022 | Chlorinated solvent contaminated groundwater: A glimpse inside the environmental microbial communities and their potential for bioremediation | Teresa Lettieri, European Commission – Joint Research Centre, Italy

TU023 | Impact of the antihistamine fexofenadine on structure and functioning of leaf-associated microbial communities | Patrick Baudy, University of Koblenz-Landau, Germany

TU024 | Innovative tools and metagenomics for the monitoring of rivers and lakes: The European project INTCATCH | Mario Carere, Italian Institute of Health ISS, Italy

TU025 | Tolerance of sediment-microbial communities to copper indicates lake contamination | Ahmed Tlili, Eawag, Switzerland

TU026 | Current challenges and perspectives in aquatic and soil microbial community ecotoxicology | Kristian Brandt, University of Copenhagen, Denmark

TU027 | Hydrodynamic conditions alter the tolerance of biofilm communities towards chemical stress | Mechthild Schmitt-Jansen, UFZ – Helmholtz Centre Environm. Research, Germany

TU028 | Does fungicide exposure alter interspecific relationships of aquatic fungi during leaf-decomposition? – A case study using species-specific qPCR assays | Nina Roeder, University of Koblenz-Landau, Germany

TU029 | Cyanobacterial Bloom in the Lake Varese: Characterisation of Microbial Communities by Metagenomics analysis | Teresa Lettieri, European Commission – Joint Research Centre, Italy

TU030 | Following copper bioaccumulation and internalization during freshwater biofilm development using stable Cu isotope | Aymeric Dabrin, Irstea, France

TU031 | Zirconium impact on freshwater periphytic communities | Caroline Doose, INRS – Centre Eau Terre Environnement, Canada

TU | Tuesday Poster Presentations

TU032 | DNA metabarcoding demonstrates effects from copper at environmental concentrations on microbial diversity in marine periphyton biofilms | **Natália Corcoll**, *University of Gothenburg, Sweden*

TU033 | A Time-series Study of Soil Microbial Community Compositional and Functional Shift in Biodiesel vs. Petrodiesel Contaminated Soils | **Deborah Carr**, *Texas Tech University, USA*

TU034 | Evaluation of riparian groundwaters quality using microalgal response to pollutants | **Ousama Chamsi**, *ECOLAB UMR5245 CNRS UPS INPT, France*

Can trends in wildlife populations revolutionise our understanding of the impacts of chemicals on the environment? (P) | **Andrew Johnson, John Sumpter**

TU035 | Can post mortem data be used to monitor population health in response in the barn owl? | **Lee Walker**, *Centre for Ecology & Hydrology, UK*

TU036 | Identifying suitable marine biomonitors in South Africa: Mussels vs Whelks | **Conrad Sparks**, *Cape Peninsula University of Technology, South Africa*

Recent developments in environmental risk assessment for pollinators (P) | **Ivo Roessink, Nicole Hanewald, Jacoba Wassenberg**

TU038 | Behavioural effects of imidacloprid, a neonicotinoid insecticide, on bumblebees (*bombus terrestris*) | **Julie Paus-Knudsen**, *University of Oslo, Norway*

TU039 | Sensitivity of honeybee larvae to PPPs and impact analysis based on EFSA Bee GD | **Johannes Lueckmann**, *Rifcon GmbH, Germany*

TU040 | Honeybee brood studies according to Oomen and OECD GD 75: Is there a difference of the brood termination rate under semi-field and field conditions | **Johannes Lueckmann**, *Rifcon GmbH, Germany*

TU041 | Does assessing of all brood cells of a hive reduce uncertainty and increase reliability of Semi-field honeybee brood studies (OECD GD 75)? | **Silvio Knaebe**, *EAS Ecotox GmbH, Germany*

TU042 | Ecotoxicological studies with bumble bees – latest developments and method improvement | **Silvio Knaebe**, *EAS Ecotox GmbH, Germany*

TU043 | Higher-tier risk refinement of solitary bees in the field – is the well-known 'focal species' concept a suitable approach? | **Johannes Lueckmann**, *Rifcon GmbH, Germany*

TU044 | Non-Apis (*Bombus terrestris*) versus honeybee (*Apis mellifera*) acute oral and contact sensitivity – Preliminary results of ECPA company data evaluation | **Axel Dinter**, *Cheminova Deutschland GmbH & Co. KG, Germany*

TU045 | Bumblebee (*Bombus ssp.*) 10 day feeding laboratory test design: First results from an ICP-PR ring test | **Nina Exeler**, *Bayer AG, Crop Science Division, Germany*

TU046 | Standardization of method to test toxicity on stingless bees | **Thaisa Roat**, *UNESP Universidade Estadual Paulista Júlio de Mesquita Filho, Brazil*

TU047 | A method for a solitary bee (*Osmia ssp.*) first tier acute oral laboratory test: An update | **Ivo Roessink**, *Alterra, Netherlands*

TU048 | 2 Years of Solitary Bee Semi-field Ring Testing and Final Conclusions (ICPPR Non-Apis Working Group) | **Silvio Knaebe**, *EAS Ecotox GmbH, Germany*

TU049 | Predicting wild bee sensitivity to Acetylcholine Esterase (AChE) inhibitors utilizing a trait based phylogenetically controlled approach | **Tobias Pamminer**, *BASF SE, Agrarzentrum Limburgerhof, Germany*

TU050 | New approaches in testing of pollinator exposure under realistic conditions – Methods and recent experiences | **Markus Persigehl**, *Tier3 Solutions GmbH, Germany*

TU052 | Normative Instruction 02/2017 – Brazilian risk assessment of pesticides to bees | **Flavia Viana-Silva**, *IBAMA, Brazil*

TU053 | How the new Brazilian risk assessment framework for bees works | **Katuscia Coelho**, *ADAMA BRASIL, Brazil*

TU054 | An epidemiological study about an effect of neonicotinoids residues on honey bee colony survival in Japan | **Yutaka Kameda**, *Chiba Institute of Technology, Japan*

TU055 | Thiamethoxam Honey Bee Large Scale Colony Feeding Study – Design and Interpretation | **Pernille Thorbek**, *Syngenta, UK*

TU056 | Alteration of the alternative splicing pattern in honeybees' nervous system genes as a tool to test pesticides toxicity | **Thaisa Roat**, *UNESP Universidade Estadual Paulista Júlio de Mesquita Filho, Brazil*

TU057 | Non-uniform distribution of treated sucrose solution via trophallaxis by honeybees affects variability of homing success rate, gene expression and mortality among replicates | **Lukas Jeker**, *Swiss Bee Research Center, Switzerland*

TU058 | Modelling and validation of honeybee foraging behaviour for the pesticide risk assessment | **Magnus Wang**, *WSC Scientific GmbH, Germany*

TU059 | Automated waggle dance decoding | **Magnus Wang**, *WSC Scientific GmbH, Germany*

TU060 | How to increase test power and understand risk in refined honeybee trials | **Magnus Wang**, *WSC Scientific GmbH, Germany*

TU061 | The potential for immune activation and possible consequences for bees upon exposure to microbial pest control agents | **Ben Jones**, *Applied Insect Science Ltd, UK*

Environmental effects of metals: Improvements to risk assessment by considering speciation and bioavailability (P) | **Christian Schlekot, Graham Merrington, Jean Mathieu Renaud, Steven Siciliano**

TU062 | Assessment of Levels of Some Heavy Metals in the Organs of West African Dwarf Goat and Beef Cattle in Ogbomoso, Nigeria | **Abdur-Rahim Giwa**, *Cape Peninsula University of Technology, Nigeria*

TU063 | Assessment of metal bioaccessibility, bioavailability and toxicity in soil using the earthworm | **Pierre Robidoux**, *AGAT Laboratories, Ltd, Canada*

TU064 | Assessment of subcellular metal-binding ligands in white suckers (*Catostomus commersonii*): Are all the metals accumulated in the heat-stable fraction (HSP) detoxified by binding to metallothioneins? | **Nastassia Urien**, *INRS-ETE, Canada*

TU065 | Assessment of Toxicological Impact of Anthropogenic activities on Onitsha Stretch of River Niger in Southeastern Nigeria | **Angela Udebuani**, *Federal University of Technology, Nigeria*

TU066 | Bioaccumulation, DNA damage and metallothionein expression in plants grown on heavy metal contaminated soil supplemented with sewage sludge | **Marta Jaskulak**, *Czestochowa University of Technology, Poland*

TU067 | Chronic toxicity assessment of Ni contaminated rivers in Japan using Ceriodaphnia dubia for development of biotic ligand model for Japanese surface waters | **Haruna Watanabe**, *National Institute for Environmental Studies, Japan*

TU068 | Comparing metallic elements in corals from South Africa and the Mascarene Basin | **Veronica van der Schyff**, *North-West University, South Africa*

TU069 | Cytochrome P450, fat and ageing: New insights into metal toxicology | **Jana Jass**, *Orebro University, Sweden*

TU070 | Determination of the effects of platinum in the oyster (*Crassostrea gigas*) using cell and tissue level biomarkers | **Manuel Soto**, *University of the Basque Country, Spain*

TU071 | Ecological Risk Assessment of Trace Metal Contaminated Tropical Estuarine Sediment, Southwest Nigeria | **Amii Usese**, *University of Lagos, Nigeria*

TU072 | Effects of culture medium on metal toxicity and new approach for ecotoxicology assessment | **Gissela Pascual**, *Tohoku University, Japan*

TU073 | Environmental diagnosis of water and tilapia *Oreochromis niloticus* of the Tenango dam, Puebla, Mexico | **Guadalupe Barrera Escorcia**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

TU074 | Estimation of Target Hazard Quotients and Potential Health Risks of Some Heavy Metals from Lipsticks in Nigeria | **Olawale Otitaju**, *Federal University Wukari, Nigeria*

TU075 | Fatty acid profile of *Cerastoderma edule* and *Scrobicularia plana* affected by copper sulphate exposure | **Ana Gonçalves**, *MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal*

TU076 | Heavy metals in soil and vegetables of allotment gardens in the Cape Town, South Africa | **Francois Wewers**, *Cape Peninsula University of Technology, South Africa*

TU077 | High-selenium lentils offer a nutritional solution to combat arsenic poisoning in Bangladesh | **Judit E.G Smits**, *University of Calgary, Canada*

TU078 | Metals removal from water for hazard classification | **G. Allen Burton**, *University of Michigan, USA*

TU079 | Modelling the chronic toxicity of copper to fish at low pH | **Stijn Baken**, *European Copper Institute, Belgium*

TU080 | Novel In-situ Toxicity Assessment of Sediment Capping Effectiveness in Deep Water | **G. Allen Burton**, *University of Michigan, USA*

TU081 | REEchange – Rare Earth Elements Ecotoxicology in a Changing Environment | **Susanne Heise**, *Hamburg University of Applied Sciences, Germany*

TU082 | Sediment characteristics of natural and anthropogenic origin and their possible association with benthic macroinvertebrates in a minimally affected river in South Africa | **Corrie Wolmarans**, *North-West University – School of Biological Sciences, South Africa*

TU083 | The effect of copper sulphate on the antioxidant enzymes activity of two size classes of *Cerastoderma edule* | **Ana Gonçalves**, *MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal*

TU084 | The impact of single metals and mixtures in nature: A microcosm experiment | **Marjolein Van Ginneken**, *University of Antwerp, Dept. Biology, Belgium*

TU085 | The influence of soil properties on lead bioavailability and toxicity to *Enchytraeus crypticus* | **Lulu Zhang**, *VU University Amsterdam, Netherlands*

TU086 | Toxicity evaluation of soils sampled in the vicinity of an Aluminum smelter in Montenegro using the Ames, Bioluminescence and DR-LUC bioassays | **Andrej Perovic**, *University of Montenegro, Faculty of Natural-sciences and Mathematics, Montenegro*

Safe by Design: Responsible and innovative research for safe and sustainable chemistry (P) | **Ester Papa, Elena Semenzin**

TU087 | In silico approaches to screen and design safer chemicals | **Ester Papa**, *University of Insubria, Italy*

TU | Tuesday Poster Presentations

TU088 | Application of chemometric methods and QSAR models to support pesticide risk assessment starting from ecotoxicological datasets | **Francesco Galimberti**, ICPS International Centre for Pesticides and Health Risk Prevention, Italy

TU089 | Influence of coatings in the bioaccumulation of TiO₂ and CeO₂ nanoparticles in rainbow trout | **María Luisa Fernandez-Cruz**, INIA – National Institute for Agricultural and Food Research and Technology, Spain

TU090 | Colloidal characterization of nano-enabled products for the restoration of works of art: Environmental fate of nano-ingredients | **Elena Badetti**, University Ca Foscari of Venice, Italy

TU091 | Considerations for Safe Innovation: The Case of Graphene | **Joris Quik**, RIVM, Netherlands

TU092 | Safer-by-Design framework for supporting Small and Medium Enterprises early in sustainable innovation for nanomedicine | **Mélanie Schmutz**, EMPA Technology & Society Lab, Switzerland

TU093 | Review of the applicability of early-stage sustainability methods integrating toxicity and environmental assessments | **Michiel Zijp**, RIVM, Netherlands

TU094 | Liquid organic hydrogen carriers (LOHC) – comparative hazard assessment | **Marta Markiewicz**, Technical University of Dresden, Germany

TU095 | 1-Octanol and 2-Butanone as biofuel candidates – Using "Green Toxicology" for abiofuel development | **Henner Hollert**, RWTH Aachen University, Germany

TU096 | Investigation of the toxic effects of new mixtures of deep eutectic solvents (DES) on the environment and human health | **Giulia Mengotti**, Heriot Watt University, UK

New frontiers in Life Cycle Inventory data collection and modelling (P) | **Michele De Rosa**, **Roland Hischier**, **Heinz Stichnohe**

TU097 | Predicting environmentally beneficial production pathways for chemicals with neural networks | **Johanna Kleinekorte**, RWTH Aachen University, Institute of Technical Thermodynamics, Germany

TU098 | A Study on the development of Food LCI DB and PCR for estimating environmental footprint in South Korea | **Suhyun Cho**, SMaRT-ECO, South Korea

TU099 | Transition from ILCD To Environmental Footprint: Changes in the database structure, format, nomenclature, methods and other adaptations | **Simone Fazio**, EC-JRC, Italy

TU100 | New tools for Environmental Footprint data checking and sharing: Soda4LCA, ILCD validator and Registry for the node management | **Simone Fazio**, EC-JRC, Italy

TU101 | Improving the consistency and the accuracy of water inventories of chemical sites in PlasticsEurope LCIs in the perspective of the applicability of the impact assessment method AWARE | **Martin Baitz**, thinkstep, Germany

TU102 | Methodological improvements by dynamic approaches for the life cycle assessments of buildings | **Koji Negishi**, CSTB, France

TU103 | Carbon footprint from Brazilian soybeans based on spatially-explicit life cycle inventories, including land use change | **Neus Escobar**, University of Bonn, Germany

TU104 | Carbon Footprint Projections for Japan Using Computable General Equilibrium | **Yuki Ichisugi**, Tokyo City University, Japan

TU105 | Network LCA as a tool to enhance data collection and usage in a value chain | **Catharina Hohenthal**, VTT Technical Research Centre of Finland, Finland

TU106 | Developing guidelines for elementary flow nomenclature | **Ashley Edelen**, ORISE, USA

TU107 | Building a Life Cycle Inventory of stormwater pollutant fluxes: Model evaluation for a separate residential urban catchment | **Ralph Rosenbaum**, National Research Institute of Science and Technology for Environment and Agriculture – Irstea, France

The added value of using invertebrate species in ecotoxicology: New insights for environmental risk assessment (P) | **Carlos Barata**, **João Pestana**, **Bruno Campos**

TU108 | Tissue specific 32P accumulation and consequent biological effects in bivalve molluscs | **Emily Vernon**, The University of Plymouth, UK

TU109 | Endocrine disruption in *Mytilus galloprovincialis*: Is ethinylestradiol a vitellogenin inducer? | **Laura Emilia Fernández González**, University of Vigo, Spain

TU110 | Integrating natural processes in environmental hazard assessments of the oil sands | **Diogo Filipe Nunes Cardoso**, CESAM, University of Aveiro, Portugal

TU111 | Genomic DNA methylation level: A stress molecular marker in the species *Gammarus fossarum*? | **Pauline Cribiu**, ENTPE, IRSTEA LYON, France

TU112 | iNVERTOX: Characterising individual metabolomic variability of the freshwater invertebrate, *Gammarus pulex* | **Thomas Miller**, Kings College London, UK

TU113 | Ecotoxicological effects of the insecticide Imidacloprid on amphipods along pollution gradient in a river | **Vid Svava**, Helmholtz Centre for Environmental Research UFZ, Germany

TU114 | Antennae Regeneration of the Marine Amphipod *Parhyale Hawaiiensis* as a Possible Endpoint in Ecotoxicology – Preliminary Data | **Otavio Diehl**, School of Technology, UNICAMP, Brazil

TU115 | Added value of community approaches in environmental risk assessment | **Monika Hammers-Wirtz**, Research Institute gaiac, Germany

TU116 | Metal pollution and macro-invertebrate communities in the Olifants River, Western Cape, South Africa | **Reinette Snyman**, Cape Peninsula University of Technology, South Africa

TU117 | QWATER – Bioassay integration under the European Water Framework Directive?: A step towards an ecological approach | **Monica Martínez-Haro**, IREC-Instituto de Investigación en Recursos Cinegéticos, Spain

TU118 | Chronic testing of mayfly and stonefly species – Development of a new approach | **Maria Brüggemann**, Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany

TU119 | Toxic effects of a carbamate insecticide on a non-target freshwater gastropod: Active ingredient versus commercial formulation | **María Ríos de Molina**, IQUIBICEN CONICET Universidad de Buenos Aires, Argentina

TU120 | Toxicity of lanthanides to freshwater microcrustaceans | **Marge Muna**, National Institute of Chemical Physics and Biophysics, Estonia

TU121 | Relevance and suitability of invertebrates swimming behavior as sub-lethal endpoint to be considered for ecotoxicological investigation | **Silvia Morgana**, CNR-ISMAR, Italy

TU122 | Benefits of Using Ecologically and Economically Valued Invertebrate Species for Ecotoxicological Analyses: Potential Phototoxic Effects Comparing a Freshwater Vertebrate and Invertebrate | **Emily Vebrosky**, Louisiana State University, USA

TU123 | Impacts of anti-cancer drugs on freshwater rotifers at environmentally realistic concentrations | **Fernanda Cassio**, University of Minho, Portugal

TU124 | Development in vitro and in vivo methods of measuring acetylcholinesterase and general esterases in aquatic invertebrates | **Yi Cao**, University of Copenhagen, Denmark

TU125 | Factors influencing bioaccumulation of metals and pollutants in corals | **Veronica van der Schyff**, North-West University, South Africa

TU126 | Survival, metabolic rates and locomotory activities of a ground-water-obligate copepod species under long-term exposures to tetrachloroethylene | **Walter Di Marzio**, CONICET-PRIET UNLU, Argentina

TU127 | Molecular and biochemical biotransformation responses in oysters *Crassostrea brasiliana* (Lamarck, 1819) exposed to Pyrene and Fluorene | **Flávia Zacchi**, Universidade Federal de Santa Catarina, Brazil

TU128 | Biochemical and cellular responses of the crab *Pachygrapsus Marmoratus* to evaluate the environmental contamination of the Livorno harbour (Italy) and of an adjacent MPA | **Silvia Casini**, University of Siena, Italy

TU129 | Toxicity of titanium on the mussel *Mytilus galloprovincialis* | **Silvana Costa**, Aveiro University & CESAM, Portugal

TU130 | Comparing intraspecific *Artemia* responses to chronic zinc exposure | **Monica Martínez-Haro**, IREC-Instituto de Investigación en Recursos Cinegéticos, Spain

TU131 | Promising invertebrate species as model organism in ecotoxicology: Ephyrae stage of the jellyfish *Aurelia* sp. and *Sanderia malayensis* | **Elisa Costa**, CNR-ISMAR, Italy

TU132 | *Paracentrotus lividus* and *Artemia* sp.: Never too old model organisms to give new end-points | **Silvia Morgana**, CNR-ISMAR, Italy

TU133 | Application of sea-urchin embryo test in the effect directed analysis approach for the evaluation of WWTP effluent in an estuarine media | **Leire Mijangos**, University of the Basque Country UPV/EHU, Spain

TU134 | Plausibility of *Daphnia magna* model to evaluate eicosanoid pathway related toxicity | **Sangwoo Lee**, Seoul National University, South Korea

TU135 | Responses to single chemical and pulse exposures of two monophyletic *Daphnia* species under a multi-generation approach | **Giuliana Araujo**, Universidade de Aveiro, Portugal

TU136 | Chronic effects of BPA, BPS, and BPSIP in *Daphnia magna* | **Yeong-Wan Hong**, Yongin University, South Korea

TU137 | Oxidative effects of mono-(2-ethylhexyl)-phthalate on *Daphnia magna* in both molecular and population level | **Yohan Seol**, KIST-Europe, Germany

TU138 | Are *Daphnia magna* and *Chironomus riparius* acute responses comparable? | **Maria Chiara Neri**, ChemService srl – Controlli e Ricerche, Italy

TU139 | Analysis of mixtures of bisphenol A and UV filters Octocrylene and OD-PABA on *Chironomus riparius* using a specific RT-PCR array | **Ana Belén González**, UNED, Spain

TU140 | Genetic variability in tolerance to microbial insecticides in *Chironomus riparius* | **Maria Bordalo**, University of Aveiro, Portugal

TU141 | Effects of Amitraz on *Chironomus riparius*: Life history and biochemical responses | **Marco Lemos**, Instituto Politécnico de Leiria, Portugal

TU142 | Multigenerational exposure of *Folsomia candida* to copper agrochemicals: Conventional and nano-pesticides | **Catarina Malheiro**, Department of Biology, University of Aveiro, Portugal

TU143 | Effects of multiple environmental Stressors on *Eisenia fetida* coelomocytes: Cell viability and different behaviour of amoebocytes and eleocytes | **Manuel Soto**, University of the Basque Country, Spain

TU | Tuesday Poster Presentations

TU144 | Toxicity of abamectin and difenoconazole, pure and formulated, to *Folsomia candida* | **Livia Figueiredo**, *University of São Paulo USP, Brazil*

TU145 | Terrestrial arthropods as indicators of environmental pollution | **Velesia Lesch**, *North-West University, South Africa*

TU146 | The impact of chlorpyrifos and its formulations on the acetylcholinesterase activity in non-target soil organisms | **Jana Vašíčková**, *Masaryk University, Czech Republic*

TU147 | Ariadna spider as a good candidate bioindicator of heavy metal contamination in the Namib Desert | **Giulia Liberatori**, *University of Siena, Italy*

TU148 | Effect of spray drift reduction techniques on pests and predatory mites in orchards and vineyards | **Stefan Otto**, *Italian National Research Council, Italy*

Microplastics in freshwater and terrestrial systems - fate, monitoring and biological interactions (P) | **Ana Marta Gonçalves, Nelson Abrantes, Alice Horton, Claus Svendsen**

TU149 | Freshwater organism can recognize microplastics as microplastics | **Shin Woong Kim**, *Konkuk University, South Korea*

TU150 | Microplastic shedding from functional textiles | **Christina Jönsson**, *Swerea IVF AB, Sweden*

TU151 | Fate of 14C-labelled Calcium Poly(styrene sulphonate) (CaPSS) Microplastic in waste water treatment at environmentally relevant concentrations | **Michael Hüben**, *Fraunhofer IME, Germany*

TU152 | Microplastics in the environment: Evaluating the risks and identifying knowledge gaps | **Emily Burns**, *University of York, UK*

TU153 | A cost-effective methodology for separation of microplastics from freshwater systems | **Ana Gonçalves**, *MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal*

TU154 | Applicability of remote sensing methods for indirect mapping of microplastic distribution within aquatic ecosystems | **Sarah Piehl**, *University of Bayreuth, Germany*

TU155 | Coastal accumulation mapping of microplastic particles emitted from the Po River, Italy: Integrating remote sensing, in situ sample collections and ocean current modelling | **Michael Matthies**, *University of Osnabrueck, Germany*

TU156 | Cause and effect of the plastic industry in South Africa as a developing country | **Carina Verster**, *North-West University - School of Biological Sciences, South Africa*

TU157 | Understanding the distribution and fate of microplastics in a tertiary sewage treatment plant in the UK | **Reina Blair**, *University of Glasgow, UK*

TU158 | Weathering-induced changes in the effects of microplastic particles and their leachates | **Annika Jahnke**, *Helmholtz Centre for Environmental Research - UFZ GmbH, Germany*

TU159 | Occurrence and characteristics of fine microplastics in sewage water, domestic water, sewage treatment water and river water by coagulation and FT-IR microscopy method | **Naofumi Yamada**, *Chiba Institute of Technology, Japan*

TU160 | Detection of micro-paint particles and microplastic in harbour soil samples using FPA- μ FTIR-Imaging-FTIR | **Alvise Vianello**, *Aalborg University, Denmark*

TU161 | Runoff of microplastics from agricultural soil: A study in a semi-arid area | **Rachel Hurley**, *NIVA - Norwegian Institute for Water Research, Norway*

TU162 | Microplastics in wastewater and freshwaters: A case-study in the Henares river watershed (Central Spain) | **Theresa Schell**, *IMDEA Water Institute, Spain*

TU163 | Microplastics occurrence and composition in drinking water from a Norwegian urban area | **Alessio Gomiero**, *International Research Institute of Stavanger, Norway*

TU164 | Macro and Micro(plastics) in the Environment of Some French rivers | **Vincent Verney**, *CNRS - ICCF, France*

TU165 | Spatial and temporal trends of microplastics in an urbanized Canadian river | **Matthew Ross**, *MacEwan University, Canada*

TU166 | A Historical Sediment Record of Microplastics in an Urban Lake, London, UK | **Alice Horton**, *Centre for Ecology and Hydrology, UK*

TU167 | Microplastics from sewage treatment works and storm water outfalls discharging into the Victoria Harbour, Hong Kong SAR | **Chu Wa Mak**, *The Chinese University of Hong Kong, Hong Kong*

TU168 | Models for Data Synthesis, Sampling Design and Scenario Analysis: Some examples using the INCA-MP model of microplastic fate and transport in soils and surface waters | **Martyn Futter**, *Swedish University of Agricultural Science, Sweden*

TU169 | Occurrence and concentration of microplastics in an urban river | **Claudia Campanale**, *Italian National Research Council, Italy*

TU170 | Removal of 10-500 μ m microplastics from wastewater effluent by disc filter | **Marta Simon**, *Aalborg University, Denmark*

TU171 | PlasticBudget - Project on the environmental assessment of microplastic emissions | **Nils Thonemann**, *Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT, Germany*

TU172 | How do we know that microplastics are different from natural particles in their effects on biota? | **Zandra Gerdes**, *Stockholm University, Sweden*

TU173 | Influence of environmental conditions on the sorption of organic pollutants to microplastic particles | **Sven Seidensticker**, *Eberhard Karls Universität Tübingen, Germany*

TU174 | Influence of microplastics on transport of organic contaminants in soil | **Thorsten Hüffer**, *University of Vienna, Austria*

TU175 | Influence of polystyrene microplastics in combination with organic pesticides on the giant rams-horn snail *Marisa cornuarietis*: Behavioral and biochemical responses | **Stefanie Kraiss**, *University of Tübingen, Germany*

TU176 | Effects of artificial weathering on polypropylene microplastics | **Soledad Muniategui**, *Universidad de Coruña, Spain*

TU177 | Freshwater microplastics and effect of conditioning on pollutant and chemical transfer potential | **Katie Reilly**, *The University of Birmingham, UK*

TU178 | Exposure to conventional but not biodegradable microplastics impacts fitness in *Daphnia magna* | **Zandra Gerdes**, *Stockholm University, Sweden*

TU179 | Effects of polystyrene microplastics in different life stages of brown trout (*Salmo trutta* f. fario) | **Hannah Schmiege**, *Tübingen University, Germany*

TU180 | Daphnids in distress? Acute and chronic effects of primary and secondary microplastics on three species of Cladocerans | **Gayathri Jaikumar**, *CML Leiden University, Netherlands*

TU181 | Evaluation of chronic toxicity of polystyrene microplastics on freshwater mussels | **Stefano Magni**, *University of Milan, Italy*

TU182 | Polystyrene microplastic effects on the lipid peroxidation and antioxidant capacity in non - and temperature-stressed individuals of *Dreissena polymorpha* | **Annkatriin Weber**, *Goethe University Frankfurt am Main, Germany*

TU183 | Tissue Translocation of Polystyrene Micro - and Nanoparticles in *Daphnia magna*? | **Christoph Schuer**, *Goethe University Frankfurt, Germany*

TU184 | Do terrestrial organisms, isopods *Porcellio scaber* and earthworms *Eisenia Andrei*, avoid microplastic contaminated soil? | **Anita Jemec Kokalj**, *University of Ljubljana, Biotechnical Fac., Slovenia*

TU185 | Analysis of the Trojan horse effect of a mixture of microplastics and chlorpyrifos in an aquatic microcosm study | **Lida Deermann**, *Research Institute gaia, Germany*

TU186 | Microplastics exposures of fish: Internalization and effects on behavior and growth | **Caroline Vignet**, *Eawag, Switzerland*

TU187 | Microplastic ingestion by fish: A comparison of Thames Estuary and Firth of Clyde populations | **Alexandra McGoran**, *Royal Holloway, UK*

TU188 | Polystyrene microplastic uptake and effects on feeding behaviour and reproduction in the cladoceran *Daphnia magna* | **Beatrice De Felice**, *Università degli Studi di Milano, Italy*

TU189 | Uptake of differently sized microplastics in gut passage by different species of *Daphnia* | **Suffeiyi Supian**, *University of Birmingham, UK*

TU190 | Determination of microplastics in mackerel stomachs by enzymatic digestion and μ FTIR | **Soledad Muniategui**, *Universidad de Coruña, Spain*

TU191 | Microplastic contamination of the model system Weser-National Park Wadden Sea: An across-ecosystem approach | **Isabella Schrank**, *University of Bayreuth, Germany*

TU192 | Photochemical fragmentation of freshwater (micro)plastics under UV irradiations | **Vincent Verney**, *CNRS - ICCF, France*

TU193 | Characterization and Environmental Risk Assessment of Polymeric Cosmetic and Personal Care Ingredients | **Iain Davies**, *Personal Care Products Council, USA*

TU194 | Toxicological effects of irregularly-shaped and spherical microplastics in a marine teleost, the sheephead minnow (*Cyprinodon variegatus*) | **June-Woo Park**, *Korea Institute of Toxicology, South Korea*

TU195 | Assessment of the microplastic contamination in sediments from the French Atlantic coast | **Maureen Déniel**, *Institut des molécules et matériaux du Mans, France*

Derivation, Validation and Implementation of Environmental Quality Benchmarks (P) | **Bryan Brooks, Kenneth Leung, Michael Warne**

TU196 | Challenges in implementing legal frameworks for assessing water quality: The cases of the EU and Swiss approaches | **Nathalie Chèvre**, *University of Lausanne, Switzerland*

TU197 | Updating the Environmental Quality Standards for the EU priority substance chlorpyrifos | **Michel Wildi**, *Ecotox Centre CH, Switzerland*

TU198 | Lead exposures in European Freshwaters; are they a risk? A regulatory assessment accounting for bioavailability | **Iain Wilson**, *WCA Environment Ltd, UK*

TU199 | Assessing compliance of European freshwaters for copper: Accounting for bioavailability | **Iain Wilson**, *WCA Environment Ltd, UK*

TU | Tuesday Poster Presentations

TU200 | Are lead exposures a risk in European freshwaters? A map of EQS compliance assessment accounting for bioavailability | **Jasim Chowdhury**, *International Lead Association, USA*

Integrated approaches in ecotoxicology: Bridging the gap between experimental toxicology and mechanistic modelling (P) | **Andre Gergs, Jean-Pierre Desforges, Elke Zimmer**

TU201 | Modelling survival under chemical stress. A comprehensive guide to the GUTS framework | **Roman Ashauer**, *University of York, UK*

TU202 | Dose response modelling in aquatic and terrestrial effect models | **Magnus Wang**, *WSC Scientific GmbH, Germany*

TU203 | Investigating toxico-kinetics of emergent pollutants (PFASs) in the common sole (*Solea solea*) from in situ measurements and experimental data on PCBs within a DEB-based modelling approach | **Florence Mounier**, *National Research Institute of Science and Technology for Environment and Agriculture - Irstea, France*

TU204 | Investigating metabolic acceleration in dynamic energy budget models of copepods using the ecotoxicological model organism *Nitocra spinipes* | **Josef Koch**, *GhEnToxLab (Ghent University), Belgium*

TU205 | Grey seal ecophysiology and environmental change | **Jean-Pierre Desforges**, *Aarhus University (AU), Denmark*

TU206 | Evaluation of thermal stress on *Daphnia magna* using oxidative stress and life-history trait parameters | **Hyungjoon IM**, *Korea University, South Korea*

TU207 | Transport-protein metal binding links uptake biodynamics for predicting copper in tilapia | **Yi-Fang Chen**, *Kaohsiung Medical University, Taiwan*

TU208 | Relationships between subcellular metal partitioning and biomarkers of effects in white suckers (*Catostomus commersonii*) exposed to an environmental metal gradient | **Nastassia Urien**, *INRS-ETE, Canada*

TU209 | Development of an adverse outcome pathway for acetylcholinesterase inhibition in zebrafish (*Danio rerio*) | **Karen Watanabe**, *Arizona State University, USA*

TU210 | Development of a Novel Quantitative Adverse Outcome Pathway Predictive Model for Lung Cancer | **Thomas Hill**, *US EPA NHEERL/ISTD/CB, USA*

TU211 | A combined PBTK and qAOP-modeling approach to assess the impact of dioxin-like compound (DLC)-induced embryotoxicity on recruitment failure in European eels | **Jonathon Doering**, *National Research Council at U.S. Environmental Protection Agency, Duluth, USA*

TU212 | Salmonid pituitary cells as a test system for identifying endocrine disrupting compounds | **Irvin Schultz**, *NOAA NWFSC, USA*

IG TU213 | SETAC Effect Modelling Interest Group | **Elke Zimmer**, *IBACON GmbH, Germany*

Integrating life cycle approaches towards a sustainable circular economy (P) | **Monia Niero, Eric Van Genderen, Chris Bayliss**

TU214 | Metal and mineral resources in LCIA – What's the problem? | **Rodrigo Alvarenga**, *Ghent University, Belgium*

TU215 | The relevance of the end-of-life stage for the environmental impact of batteries | **Jens Peters**, *Karlsruhe Institute of Technology KIT, Germany*

TU216 | Battery recycling efficiencies and their influence on the life cycle impacts of batteries | **Katrien Boonen**, *VITO, Belgium*

TU218 | New and Reconditioned Electrical and Electronic Equipment. How does change the environmental performance? | **Martina Pini**, *University of Modena and Reggio Emilia, Italy*

TU219 | The impact of European consumption of household appliances: Insights from the LCA of efficiency measures and expected trends | **Roland Hischier**, *EMPA, Switzerland*

TU220 | Assessing economic and environmental effects of product replacement program using dynamic discrete choice model: As a case study of "home appliance eco-point system" in Japan | **Daisuke Nishijima**, *National Institute for Environmental Studies, Japan*

TU221 | Economic lifetime, hazard functions, and car inspection system | **Yuya Nakamoto**, *Kyushu University, Japan*

TU222 | Li-S batteries for electric vehicles, challenges for circular economy objectives | **Gabriela Benveniste**, *IREC, Spain*

TU223 | ATISOL C2C – Life cycle assessment as a tool for the codensing of a "vapour and air barrier membrane – insulator" system, in a cradle to cradle approach | **Sylvie Gros Lambert**, *University of Liège – Chemical Engineering, Belgium*

TU224 | Life Cycle Assessment of Recycled Asphalt and Biomaterials for Road Pavements | **Ana Jimenez del Barco Carrion**, *The University of Nottingham, UK*

TU225 | Dynamic vs static LCA to explore the sustainability of industrial waste recycling | **Andrea Di Maria**, *KU Leuven, Belgium*

TU226 | Pursuing the sustainable circular city – is environmental accounting supporting the transition? | **Anna Petit-Boix**, *University of Freiburg, Germany*

TU227 | Taking stock of a circular economy within planetary boundaries: A multi-scale analysis through consequential LCA | **Hanna Helander**, *University of Freiburg, Germany*

TU228 | Opportunities and threats in water treatment options as investigated by LCA | **Stefan Kools**, *KWR Watercycle Research Institute, Netherlands*

TU229 | Closing the loop in a territory: LCA approaches to boost resource recovery | **Marina Isasa**, *CETAqua Water Technology Centre, Spain*

TU230 | Innovative method to optimize territorial organic waste resources | **Giovanna Catalina Vega**, *The Technical University of Denmark (DTU), Denmark*

TU231 | Environmental Benefits of a Circular Economy: Connecting Waste Type and Geographic Proximity | **Regula Keller**, *Zurich University of Applied Sciences, Switzerland*

TU232 | Evaluation of nutrients and energy recovery technologies through Life Cycle approaches | **Marina Isasa**, *CETAqua Water Technology Centre, Spain*

TU233 | Life Cycle Assessment of a novel process of polyhydroxyalkanoates production with waste and by-products from wine industry value chain | **Serena Righi**, *University of Bologna, Italy*

TU234 | Environmental, social and economic challenges towards a bio-based economy: The STAR-ProBio project, Sustainability Transition Assessment and Research of Bio-based Products | **Serena Righi**, *University of Bologna, Italy*

TU235 | Integration of a Colombian bio-refinery from industrial palm oil waste into the circular economy | **Daniel Garrain**, *CIEMAT, Spain*

TU236 | Cradle-to-gate life cycle assessment of biogas production from palm oil mill effluent | **Marlia Mohd Hanafiah**, *Universiti Kebangsaan Malaysia, Malaysia*

TU237 | Challenges and open issues in assessing new technologies for circular economy solutions | **Paolo Masoni**, *Ecoinnovazione srl, Italy*

TU238 | Circular economy: What does restaurant food waste generation data and consumers say? | **Renata Dagiliute**, *Vytautas Magnus University, Lithuania*

TU239 | Assessment of Carbon Footprint of a typical Spanish dietary pattern: The Atlantic diet | **Sara González-García**, *University of Santiago de Compostela, Spain*

TU240 | Assessing life-cycle impacts of the sharing economy: How to account for behavioural changes? | **Donald Chapman**, *KU Leuven, Belgium*

Innovative techniques for enhancing and monitoring microbial activities for in situ remediation of contaminated sites (P) | **Andrea Franzetti, Luca Alberti, Anna Barra Caracciolo, Paola Grenni**

TU241 | Effects of plant growth and organic carbon addition on DDE degradation in soil | **Martina Cardoni**, *National Research Council of Italy, Italy*

TU242 | Soil microbial community associated to a poplar-assisted bioremediation study | **Valeria Ancona**, *Water Research Institute – Italian National Research Council, Italy*

TU243 | Plant-assisted bioremediation to recover multi-contaminated areas and provide biomass for renewable energy production | **Valeria Ancona**, *Water Research Institute – Italian National Research Council, Italy*

TU244 | Microcosm experiment to assess the effectiveness of a *Populus* clone to enhance PCB biodegradation in a historically contaminated soil | **Anna Barra Caracciolo**, *National Research Council, Italy*

TU245 | Are PCB half-lives obtained in rhizoremediation experiments reliable? Pitfalls in experimental design and suggested guidelines for conducting the experiments | **Elisa Terzaghi**, *University of Insubria (Como), Italy*

TU246 | Effect of Organic and Inorganic Fertilizers on the Bioremediation of Used Motor Oil Polluted Soil | **Pascaline Ferdinand**, *Federal University of Technology Owerri, Nigeria*

TU247 | Soil pollution and physico-chemical properties steer the bacterial community structure in the uneven highly polluted SIN Brescia-Caffaro site | **Francesca Mapelli**, *University of Milan – DeFENS, Italy*

TU248 | Laboratory-scale assessment of bioremediation of hydrocarbon-contaminated soil | **Federico Diana**, *University of Milano Bicocca, Italy*

TU249 | Influence of Surfactants and Mycobacterium vanbaalenii PYR-1 Bioaugmentation on 14C-Pyrene Mineralization and Microbial Community Structure in PAH-Contaminated Soils | **Douglas Wolf**, *University of California-Riverside, USA*

TU250 | Italian field results of Emulsified Lecithin-based Substrate used as ERD treatment of Chlorinated Solvents in groundwater | **Alberto Leombruni**, *PeroxyChem LCC, USA*

TU251 | Cheese whey effects on microbial communities in contaminated groundwater of an urban area | **Denisa Vlkova**, *Technical University of Liberec, Czech Republic*

TU252 | The Influence of Nanoscale Zero-valent Iron (nZVI) in Combination with Various Organic Compounds (Modifiers) on Dehalorespiring Microflora | **Kristyna Markova**, *Technical University of Liberec, Czech Republic*

TU253 | Mechanistic insight into microbial reductive dehalogenation | **Gerrit Schuurmann**, *Helmholtz centre for environmental research – UFZ, Germany*

TU254 | Bacterial biosorption of PFOS from contaminated waters | **Marios Stylianou**, *Orebro University, Sweden*

TU255 | Hexavalent chromium reduction in a biocathodic microbial electrolysis cell | **Gabriele Beretta**, *Politecnico di Milano, Italy*

TU | Tuesday Poster Presentations

TU256 | Enhancing Reductive Dechlorination Combined with In-Situ Chemical Reduction for the Remediation of a Heavy Contaminated Chlorinated Solvents Source Zone in South of Italy | **Firoozeh Arjmand**, CH2M Hill, Italy

TU257 | Bioelectrochemical sulfide scavenging from hydrocarbon contaminated marine sediments | **Matteo Daglio**, University of Milano – Bicocca, Italy

TU258 | Freshwater sediment enrichments to improve MFCs performance for in situ remediation application: A phylogenetic microbial characterization | **Caterina Armato**, University of Torino, Italy

TU259 | Integration of molecular and isotopic analyses to investigate the potential of aerobic biodegradation at a site contaminated by Monochlorobenzene | **Tatiana Stella**, University of Milano-Bicocca, Italy

TU260 | Isotopic and Molecular Biology fingerprinting of a complex contaminated industrial area | **Tatiana Stella**, University of Milano-Bicocca, Italy

TU261 | Microbial ecology and ecosystem services: A key role for biotechnological applications | **Giuseppe Lembo**, ENEA CR, Italy

TU262 | Evaluation of bioremediation potential in groundwater using newly-developed software | **Magda Nechanická**, Technical University of Liberec, Czech Republic

Anthropogenic and natural sources of environmental contaminants highlight the impacts of opposing and conflicting regulations (P) | **Martin Blank, Dirk Liss, Nicole Baran**

TU263 | Remediation of aquatic ecosystems: Adsorption of phosphorus by sawdust | **Glaucia Pantano**, Federal University of Sao Carlos, Brazil

TU264 | Formation potential of trifluoroacetate and its estimation by means of the TOP assay | **Karsten Nödler**, TZW DVGW-Technologiezentrum Wasser, Germany

TU265 | A Challenge for pesticide regulators: The example of 1,2,4-triazol in groundwater – Overview of regulatory strategies in Germany, Denmark and France | **Balthasar Smith**, BVL, Germany

TU266 | PPPs on the basis of natural compounds: Nature challenges analytics | **Franziska Stahl**, SGS Institut Fresenius GmbH, Germany

Persistence & Biodegradation Assessment (P) | **Graham Whale, Thouand Gerald, Jacques Lharidon, Arnaud Boivin**

TU267 | Implication of microbial adaptation for the persistency of emerging pollutants | **Baptiste Poursat**, University of Amsterdam/IBED Institute, Netherlands

TU268 | Prioritization of organic compounds based on their persistence in dissolved phase | **Laura Fuster**, EPOC, University of Bordeaux, France

TU269 | OECD 308 tests to explore differences in persistence of pharmaceuticals and microbial diversity between two rivers | **Claudia Coll Mora**, Stockholm University, Sweden

TU270 | Compartment-Specific Screening Tools – Development and Application to Assess Potential Persistence of Organic Compounds in Water, Sediment and Soil | **Thomas Junker**, ECT Oekotoxikologie GmbH, Germany

TU271 | Persistence assessment of pesticides in Denmark | **Anne Louise Gimsing**, The Danish Environmental Protection Agency, Denmark

TU272 | Influence of Winter Conditions on Fungicide Persistence in North American Golf Course Turfgrass | **Paul Koch**, University of Wisconsin – Madison, USA

TU273 | Biodegradability of novel graft copolymer with levan and polystyrene | **Branka Lončarević**, Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Serbia

TU274 | Aerobic degradation of styrenated phenol in soil: Influence of the temperature and of the characteristics of the soils | **Marie-Hélène Enrici**, SOLVAY, France

TU275 | Comparison of kinetics and products of degradation determined for the toluenediamine substances in the OECD-standardized ready biodegradability and sediment simulation tests | **Christian Boegi**, BASF SE, Germany

TU276 | Evidence for Anaerobic Microbiodegradation of PCBs and PBDEs in Sediment cores from an e-Waste Site, South China | **Bixian Mai**, Guangzhou Institute of Geochemistry, China

TU277 | Transformation and degradation mechanisms of flame retardant triphenyl phosphate in aquatic environment | **Yeowool Choi**, Gwangju Institute of Science and Technology, South Korea

TU278 | Photolytic and biological degradation of silicon organic compounds | **Elisa Grabitz**, Leuphana University Lueneburg, Germany

TU279 | Biodegradation of adsorbed oil pollutants: Research on a model system | **Jelena Milic**, Institute of Chemistry, Technology & Metallurgy, Serbia

TU280 | Applying high-resolution mass spectrometry to evaluate chemical persistence in un-spiked natural waters | **Zhe Li**, Stockholm University, Sweden

TU281 | A Ultimately Transformed Organic Carbon (U-TOC) approach to assess biodegradability of complex chemicals | **Mickael Cregut**, University of Nantes, France

TU282 | Development of a multi-sensors device to assess the biodegradation of chemicals | **Mickael Cregut**, University of Nantes, France

TU283 | Investigations on key parameters of an innovative biodegradation test based on cell proliferation | **Markus Seyfried**, Firmenich, Switzerland

TU284 | Challenges and Solutions of Ready Biodegradation Study with Difficult Substances | **Takahiro Suzuki**, Kao Corporation, S.A., Spain

TU285 | Influence of inoculum origin and adaptation on biodegradation of emerging contaminants | **Baptiste Poursat**, University of Amsterdam/IBED Institute, Netherlands

TU286 | Investigations on the role of adaptation in OECD biodegradation screening tests | **Markus Seyfried**, Firmenich, Switzerland

TU287 | Use of Chemical Analysis to Enhance Interpretation of Biodegradability Tests: A Case Study with Two Gas-to-Liquid (GtL) Products | **Graham Whale**, Shell Health, UK

TU288 | Organising an international ring test to improve the marine biodegradation screening test | **Amelie Ott**, Newcastle University, UK

TU289 | Tissue-specific accumulation of triphenyltin compounds in marine fishes in sub-tropical Hong Kong | **Ronia Sham**, The University of Hong Kong, Hong Kong

TU290 | POPs in the terrestrial environment of Schirmacher Hills, Antarctica: A preliminary study and implications for PCB degradation kinetics | **Asif Qureshi**, IIT Hyderabad, India

TU291 | Degradation of crop protection products in Brazilian soils | **Nastasia Baudin**, Syngenta Product Safety, UK

TU292 | Study of the Degradation of Bisphenol A by the basidiomycete fungus *Trametes versicolor*, via HPLC-DAD | **Elizabete Lima**, UFABC, Brazil

TU293 | Soil dissipation of paraffin oils: Improvement of the microbial degradation and impact on soil dissipation | **Philippe Adrian**, CEHTRA SAS, France

TU294 | Leaching of PAHs from Coal Mining Heap Samples from the Saarland | **Thomas Schiedek**, Applied Geosciences, Germany

When ecotoxicology meets trophic ecology (P) | **Clémentine Fritsch, Michael Danger, M. Pereira**

TU295 | Will detoxification processes developed by marine mammals still be efficient in the future? | **Paula Mendez**, Observatoire Pelagis, France

TU296 | Impact of biofilm growth on mercury accumulation in *Daphnia magna* | **Semona Issa**, Norwegian University of Science and Technology, Norway

TU298 | Multiple stressor effects on resource quality for consumers: A case study with phototrophic biofilm exposed to phosphorus and ionic silver | **Michael Danger**, LIEC, France

TU299 | Soil pollution induced changes in leaf litter chemical composition and in detritivore physiology and activity | **Florence Maunoury-Danger**, LIEC – Université de Lorraine – CNRS, France

TU300 | Decomposition rates and feeding activity of soil fauna in relation with stages of plant colonization in mine soils of a Mediterranean area | **Antonio Peñalver Alcalá**, Escuela Técnica Superior de Ingeniería Agronómica. Universidad Politécnica de Cartagena, Spain

TU301 | Effects of mineral supplements on lead exposure in free-ranging herbivores | **Jennifer Pareja Carrera**, IREC-UCLM, Spain

TU302 | Analysis of anticoagulant rodenticides, neonicotinoids and fipronil in liver of predatory birds | **Detlef Schenke**, Julius Kühn-Institut – Federal Research Centre for Cultivated Plants, Germany

TU303 | Trophic Magnification of POPs including PFCs Within A Terrestrial Food-Web of An Avian Top Predator, the Cooper's Hawk (*Accipiter cooperii*) | **John Elliott**, Environment Canada, Canada

TU304 | Seasonal dynamics of zooplankton community, trophodynamics and Hg across a gradient from a DOM rich river to a marine system | **Sabrina Schultze**, University of Oslo, Norway

TU305 | Spatial comparison of contamination and biomagnification profiles of triphenyltin compounds in sub-tropical marine environments of Hong Kong | **Ronia Sham**, The University of Hong Kong, Hong Kong

TU306 | Comparative trophodynamics of polychlorinated biphenyls and chlorinated paraffins in an urban river | **Hélène Budzinski**, University of Bordeaux, France

TU307 | Copper and mercury effective body residues in freshwater macroinvertebrates as related to benthic community metrics from a mining river basin | **Leire Méndez-Fernández**, University of the Basque country UPVEHU, Spain

TU308 | Trophic transfer of Cadmium nitrate in a simplified marine food chain: Experimental feeding rate of gelatinous zooplankton *Aurelia* sp. and *Sanderia malayensis* on crustacean *Artemia* sp. | **Elisa Costa**, CNR-ISMAR, Italy

TU309 | Tissue injuries in *Crassostrea virginica* as evidence of the trophic transference of copper and cadmium via *Chlorella* sp. | **Guadalupe Barrera Escorcia**, Universidad Autónoma Metropolitana Iztapalapa, Mexico

TU310 | Can microplastics save us? Effects of microplastic particles and particle-bound trace contaminants in an artificial aquatic food web | **Lisa Hanslik**, COS University of Heidelberg, Germany

TU311 | Toxicokinetics links predator-prey dynamics to assess zero-valent iron nanoparticles bioaccumulation in a *Caenorhabditis elegans*-*Escherichia coli* ecosystem | **YingFei Yang**, National Taiwan University, Taiwan

TU | Tuesday Poster Presentations

Use of Effect Based Methods in the context of the national and european legislative framework for the protection of aquatic ecosystems (P) | Mario Carere, Henner Hollert, Armelle Hebert

TU312 | Interest of in vitro bioassays (YES/YAS) for the screening of endocrine disruption in surface waters of Wallonia (Belgium) | Carole Chalon, ISSeP, Belgium

TU313 | Ecotoxicological tools to assess the impact pollution of tributaries to the Alqueva Reservoir (Southern Portugal) | Patricia Palma, Instituto Politécnico de Beja, Portugal

TU314 | Effects based tools for use in conjunction with passive samplers | Rebecca Brown, wca consulting, UK

TU315 | Innovative ecotoxicological monitoring strategies for the protection of aquatic ecosystems and the implementation of the Water Framework Directive (WFD) | Walter Cristiano, Institute for Environmental Research, RWTH Aachen, Germany

TU316 | Chemical and Ecotoxicological Monitoring of a marine coastal area in the Central Italy | Mario Carere, Italian Institute of Health ISS, Italy

TU317 | Use of diagnostic strains of the Salmonella/Microsome assay for the identification of mutagenic profiles on water samples and suspended particulate matter | José Ricardo Rossetto Martins Zwarg, School of Technology, UNICAMP, Brazil

TU318 | NTA meets EDA: A practical example | Anne Simon, IWW Rheinisch-Westfälisches Institut für Wasserforschung gGmbH, Germany

TU319 | Impossex levels in gastropods from the Northern Adriatic Sea (Italy): A proposal of classification according to the Water Framework Directive | Federica Cacciatore, ISPRA-Institute for Environmental Protection and Research, Italy

TU320 | Lessons Learned from Sibro Dam and River Restoration in Sweden | Emma Hällqvist, Ramboll, Sweden

Behavioural Ecotoxicology: Unravelling behavioural responses to chemical contaminants in the environment (P) | Minna Saaristo, Kathryn Arnold, Bryan Brooks, Gregory Pyle

TU321 | Impacts of methylmercury on growth, respiration and swimming in larvae of a marine forage fish | Xiayan Ye, Stony Brook University, USA

TU322 | Comparability of Zebrafish Embryo Behavioral Assays: A Need for Standardization of Experimental Factors | Afolarin Ogungbemi, Helmholtz centre for environmental research – UFZ, Germany

TU323 | Effects of 17 α -ethynylestradiol (EE2) on social behaviors of the false clown anemonefish (Amphiprion ocellaris) | Te-Hao Chen, National Museum of Marine Biology and Aquarium, Taiwan

TU324 | Impacts of environmentally realistic antidepressant exposure on reproductive behaviour and sperm traits in fish | Jake Martin, Monash University, Australia

TU325 | Determining the effects of antidepressants on multiple behaviours in a marine and freshwater amphipod | Shanelle Kohler, University of Portsmouth, UK

TU326 | Inter-species variability in the behaviour of a marine and freshwater amphipod | Shanelle Kohler, University of Portsmouth, UK

TU327 | Physiological basis of individual tolerance to the benzodiazepine oxazepam in zebrafish (Danio rerio) | Laura Vossen, Uppsala University, Sweden

TU328 | Reversible behavioural alterations in burbot, *Lota lota*, from exposure to environmentally relevant levels of oxazepam | Josefin Sundin, Norwegian University of Science and Technology, Norway

TU329 | Behavioural endpoints and biochemical biomarkers as tools to investigate effects of citalopram in brown trout (*Salmo trutta f. fario*) | Michael Ziegler, University of Tübingen, Germany

TU330 | Assessing the direct and indirect effects of chemical contaminants on the behaviour, ecology and evolution of wildlife: A conceptual framework | Kathryn Arnold, University of York, UK

TU331 | Scent and sensibility: EE2 disrupts male mate choice in fish | Minna Saaristo, Monash University, Australia

TU332 | Effects of tributyltin on the eyes, swimming, feeding and growth of newborn guppies *Poecilia vivipara* | Paulo Carvalho, UFPE – Universidade Federal de Pernambuco, Brazil

TU333 | Chemosensory behavioral reactions of zebrafish larvae to environmental contaminants | Sarah Könemann, Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland

TU334 | Urban sewage effluents into an alpine stream: Are information on behavioural effects on *Daphnia magna* suitable to protect alpine cold adapted species? | Valeria Di Nica, University of Milan – Bicocca, Italy

TU335 | Do silver and titanium dioxide nanoparticles influence the fish kairomone induced anti-predator defence in *Daphnia magna*? | Anna Beasley, University of Siegen, Germany

TU336 | Behavioral and Physiological Responses of *Daphnia magna* to Fluoxetine and Propranolol Exposure | Peter Roslev, Aalborg University, Denmark

TU337 | How toxic is a non-toxic nanomaterial: Behaviour as an indicator of effect in *Danio rerio* (zebrafish) exposed to nanogold | Tarryn Botha, North-West University, South Africa

TU338 | The effects of silver and silver nanoparticles via different routes of exposure on behaviour in marine amphipods | Monizze Vannuci-Silva, UNICAMP, Brazil

TU339 | Developing methods to determine aquatic invertebrate behavioural endpoints for regulatory ecotoxicology studies | Amy Brooks, Cambridge Environmental Assessments, UK

TU340 | The effects of sublethal doses of pollutants on crop pest, *Spodoptera littoralis* | David Siauxat, Institute of Ecology and Environmental Sciences, France

TU341 | The effect of copper nanoparticles on olfaction in rainbow trout (*Oncorhynchus mykiss*) | Parastoo Razmara, University of Lethbridge, Canada

Informed substitution of hazardous chemicals for circular economy: Science and practice (P) | Peter Simpson, Hugo Waeterschoot, Ian Cousins, Patrik Andersson

TU342 | Perfluoroalkyl acids concentrations in liquid wastes: A survey campaign and implications for waste disposal | Sara Valsecchi, Water Research Institute – Italian National Research Council IRSA-CNR, Italy

TU343 | Regenerated Textile raw materials: Chemical contamination for LCA | Andrea Franchi, Buzzi Laboratorio Analisi, Italy

TU344 | Challenges for a comparative risk assessment among conventional hazardous substances and alternatives for textile finishing. Two case studies: Flame retardants and durable water and oil repellents | Maria Diez-Ortiz, Leitat Technological Center, Spain

TU345 | Substitution of firefighting foams containing per – and polyfluorinated alkyl substances (PFASs) | Annegret Biegel-Engler, German Environment Agency – UBA, Germany

TU346 | The Paradigm of Substitution – expand your view | Malte Zimmer, ZVO e.V., Germany

TU347 | A pilot case on how Socio-Economic Evidence can inform Risk Management decision making to assess Substitution versus Recycling for non-ferrous metals slags in safe use applications | Hugo Waeterschoot, Eurometaux, Belgium

Developments in the ecological and human health risk assessment of biopesticides: Microorganisms, semiochemicals and botanicals (P) | Elizabeth Collison, Jacobijn van Etten, Alison Hamer

TU348 | Ecotoxicity of the hydrolate byproduct of three biopesticides on the unicellular green algae *Chlamydomonas reinhardtii* | María Rosa Pino, San Jorge University, Spain

TU349 | Ecotoxicological evaluation of the hydrolate byproduct of *Satureja montana* on *Daphnia magna* and *Vibrio fischeri* | María Rosa Pino, San Jorge University, Spain

TU350 | The impact of the hydrolate byproduct of three biopesticides on the soil environment | María Rosa Pino, San Jorge University, Spain

TU351 | Acute toxicity of emulsifiable concentrate of *Alpinia galangal* essential oil against *Cyprinus carpio* | Hyeong-Mi Kim, Kyungpook National University, South Korea

TU352 | Chronic toxicity of emulsifiable concentrate of cinnamon essential oils against *Cyprinus carpio* | Hwangju Jeon, Kyungpook National University, South Korea

TU353 | Thiosemicarbazone scaffold for the design of antifungal and anti-aflatoxinigenic agents: Evaluation of ligands and related metal complexes | Serena Montalbano, University of Parma, Italy

Understanding human and environmental exposure to chemicals in urban systems (P) | Todd Gouin, Miriam Diamond, Antonia Praetorius, Alistair Boxall

TU354 | Electronic products are related with household exposures in Canadian residents | Miriam Diamond, University of Toronto, Canada

TU355 | Modelling diffuse emissions and fate of engineered nanoparticles used in outdoor paints to urban surface waters at high spatial and temporal resolution | Maria del Prado Nuñez, University of York, UK

TU356 | Occurrence and human exposure of parabens, triclosan and triclocarban in personal care products from Korea | Sori Mok, Hanyang University, South Korea

TU357 | Characteristics of exposure factors for consumer products in Korean infant and caregivers pair | Kiyoung Lee, Seoul National University, Graduate School of Public Health, South Korea

TU358 | Analysis of metabolites of organophosphate and pyrethroid pesticides in urine from Italian children | Natalia Bravo, CSIC-IDAEA, Spain

TU359 | PAH levels in parturient and newborns from Aveiro region, Portugal | Marta Monteiro, Aveiro University, Portugal

TU360 | A modelling framework to link aggregate exposure pathways with internal exposures and potential bioactivity | Jon Arnot, ARC Arnot Research & Consulting, Canada

TU361 | Environmental impact of lead mining on the bio-ecosystem in Ishiagu town of Ebonyi state in South-Eastern Nigeria | Silvanus Anika, University of Nigeria, NSUKKA, Nigeria

TU | Tuesday Poster Presentations

TU362 | Evaluation of potential risk of rare earth element contamination from leachate originating from electronic waste disposal | **Vernon Somerset**, *CPUT, South Africa*

TU363 | A stonework snail as a new biomonitor of metal contamination in the urban environment | **Stefania Ancora**, *University of Siena, Italy*

TU364 | Metals Distribution in Urban Garden Soils in Greater Victoria, BC, Canada | **Matt Dodd**, *Royal Roads University, Canada*

TU365 | Soil quality analysis, a lever for identifying sources of trace elements and managing urban allotments for urban agriculture production | **Marc Legras**, *UniLaSalle - Campus Rouen, France*

TU366 | Vertical movement of PCBs in agricultural soils impacted by an historical contaminated site: Using SoilPlus model to predict discharge, dynamics of movement in soil, and rhizoremediation potential | **Antonio Di Guardo**, *University of Insubria, Italy*

TU367 | Metals and metalloids in inhalable fractions of urban road dust | **Clare Wiseman**, *University of Toronto, Canada*

TU368 | Sequential extraction and particle size distribution of Cd, Cu, Pb and Zn in street dust of Belgrade (Serbia) | **Tatjana Solevic Knudsen**, *ICHTM, Serbia*

TU369 | "New" OPEs: Isopropylated, tert-butylated and di-tert-butylated Triarylphosphate Isomers in E-waste, House, Car and NIST SRM Dust | **Tim Rodgers**, *University of Toronto, Canada*

TU370 | Oxidative potential of particulate matter collected at industrial and urban sites | **Lorenzo Massimi**, *Sapienza University of Rome, Italy*

TU371 | Chromatographic determination of the pathway of nevirapine in wastewater at a wastewater treatment plant | **Vernon Somerset**, *CPUT, South Africa*

TU372 | Leucomethylene blue: a selective photometric reagent for chlorine dioxide analysis in water | **Ricard Devesa**, *Aigues de Barcelona, Spain*

TU373 | Fate and effects of triclosan in subtropical freshwater benthic microcosms | **Fengjiao Peng**, *Wageningen UR, Netherlands*

TU374 | Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology (ISES-ISEE 2018) | **Miriam Diamond**, *University of Toronto, Canada*

Challenges in setting, meeting and measuring specific protection goals for plant protection products (P) | **Lorraine Maltby**, **Peter Campbell**

TU375 | French Phytopharmacovigilance: A national scheme for monitoring the adverse effects of plant protection products | **Fabrizio Botta**, *ANSES, France*

TU376 | Measuring and Modeling Aluminium Bioavailability and Toxicity to Aquatic Organisms | **Bill Stubblefield**, *Oregon State University, USA*

TU377 | Modelling impacts of chemicals on ecosystem services | **Pernille Thorbek**, *Syngenta, UK*

TU378 | Sulphur: Conflicting protection goals | **Frank Bakker**, *Eurofins-Mitox, Netherlands*

The Need for Resilience in Environmental Impact Assessment (P) | **Richard Wenning**, **Sabine Apitz**, **Lawrence Kapustka**, **Thomas Seager**

TU379 | Recovery in environmental risk assessments at the European Food Safety Authority (EFSA) | **Theo C.M. Brock**, *Alterra, Wageningen University and Research Centre, Netherlands*

TU380 | Habitat Equivalency Analysis for a Restoration Resilience Model of the Rio Doce Basin | **Pieter Booth**, *Ramboll Environ, USA*

TU381 | Using risk and recovery information in environmental cost-benefit analysis for determining appropriate risk management actions at major industrial facilities | **Samantha Deacon**, *Ramboll Environment & Health Limited, UK*

TU382 | Addressing Resilience in Ecosystem Services Assessment | **Elisa Bizzotto**, *Ramboll, Italy*

TU383 | Use of cost modelling techniques to manage environmental subsurface risks, liabilities and uncertainties in Spain | **Peter Wouters**, *Ramboll Environ, Spain*

TU384 | Quality stakeholder involvement for resilience in environmental risk assessment | **Yevgeniya Tomkiv**, *Norwegian University of Life Sciences (NMBU), Norway*

TU385 | Assessment and Management of Radiation Risks following a Nuclear Accident: The Shamisen Project Recommendations | **Yevgeniya Tomkiv**, *Norwegian University of Life Sciences, Norway*

TU386 | SETAC Ecosystem Services Interest Group | **Sabine Apitz**, *SEA Environmental Decisions Ltd, UK*

Air Pollution, Biomonitoring and Human Health (P) | **Luisella Ciancarella**, **Carmela Tortorella**, **Dominique Courcot**

TU387 | Assessment of Indoor Radon Concentration and Trace Metals Composition in University Building Microenvironments | **Marlia Mohd Hanafiah**, *Universiti Kebangsaan, Malaysia*

TU388 | Paradigm for PM2.5 Chemical and Biological Characterization: Paired Home and Personal PM2.5 Samples in Kheri, India | **Courtney Roper**, *Oregon State University, USA*

TU389 | Toxicity of airborne particulate matter as a factor to choose the most convenient school | **Marta Schuhmacher**, *Rovira i Virgili University, Spain*

TU390 | Acute Impacts of Extreme Hot Temperature Exposure on Emergency Room | **Chi-Jung Chung**, *China Medical University, Taiwan*

TU391 | Characteristics of Polybrominated Diphenyl Ethers Released from Primitive E-Waste Treatment | **TingYu Li**, *Jinan University, China*

TU392 | How risky is the schoolyard? An approach from chemical composition of particulate matter | **Joaquim Rovira**, *Universitat Rovira i Virgili, Spain*

TU393 | Good news to lazybones kids: Increasing sleeping time decreases exposure to airborne particulate matter | **Marta Schuhmacher**, *Rovira i Virgili University, Spain*

TU394 | Occupational Cement Dust Exposure: Effect on blood level of some antioxidant enzymes and vitamins in Owerri, Nigeria | **Chioma Unadike**, *Imo State University Owerri, Imo State, Nigeria*

TU395 | Implementing NH3 mitigation strategies in a pig farm: Different approaches to evaluate the environmental impact | **Cecilia Baldini**, *Università degli Studi di Milano, Italy*

TU396 | Development of an In Vitro Method to Evaluate the Inhalation Bioaccessibility of Particle-Bound Hydrophobic Organic Chemicals and its Effects of Particle Size | **Shanyi Xie**, *Jinan University, China*

TU397 | Toxicity does not vanish into thin air - molecular mechanisms of air pollutant mixtures | **Zuzana Novakova**, *Masaryk University, Czech Republic*

TU398 | Human health assessment of air pollution exposure to tuberculosis risk in regions of Taiwan | **Hsing-Chieh Lin**, *National Taiwan University, Taiwan*

TU399 | Towards green braking: Comparative evaluation of toxicological profile of particles generated by traditional and innovative braking systems | **Simone Maiorana**, *Istituto di Ricerche Farmacologiche Mario Negri, Italy*

TU400 | Toxic oxidation transformation products of phenanthrene measured in laboratory generated secondary organic aerosol particles | **Amber Kramer**, *Oregon State University, USA*

TU401 | Chemical analysis and risk assessment for toxic compounds in PM2.5 in Gwangju, Korea | **Injeong Kim**, *Gwangju Institute of Science and Technology, South Korea*

TU402 | Source apportionment study of PM10 and PM2.5 using selective wind direction sampling technique in the area of Civitavecchia (Italy) | **Roberta Valentina Gagliardi**, *Istituto Superiore di Sanità, Italy*

TU403 | Forecasting global atmospheric visibility based on air quality and meteorological data | **Hang Xiao**, *NUEORS, Chinese Academy of Sciences, China*

TU404 | Analyzing the Asian supply chain structure of health impacts with PM2.5 including secondary particle | **Fumiya Nagashima**, *Kyushu University, Japan*

TU405 | Source contributions to PM10 levels in a coastal area in northern France: A one year study | **Frédéric Ledoux**, *University of Littoral Côte d'Opale, France*

TU406 | Source-to-exposure assessment of industrial organic pollutants in Australia, using the Pangea multi-scale framework | **Olivier Jolliet**, *University of Michigan, USA*

TU407 | Non-targeted screening of DNA adducts as biomarkers for human exposure to PAHs in the environment with liquid chromatography tandem mass spectrometry | **Yong-Lai Feng**, *Health Canada, Canada*

TU408 | Global inter-comparison of polyurethane foam passive air samplers evaluating variability due to sampler design and analysis | **Pernilla Bohlin Nizzetto**, *NILU - Norwegian Institute for Air Research, Norway*

TU409 | Microplastic Indoor Air Pollution Using a Simulated Breathing Mannequin - μ FT-IR Imaging Quantification | **Alvise Vianello**, *Aalborg University, Denmark*

TU410 | Composite electrospun fibers based on sustainable and biodegradable polymers for monitoring air pollution | **Antonella Macagnano**, *CNR-Institute of Atmospheric Pollution Research, Italy*

TU411 | Determination of Cross Compartment Concentration Gradients of Polycyclic Aromatic Hydrocarbons using PE Passive Samplers | **Jana Meierdierks**, *University of Tübingen, Germany*

TU412 | Evaluating Computational and Structural Approaches to Predict Transformation Products of Atmospheric Polycyclic Aromatic Hydrocarbons | **Ivan Titaley**, *MTM Research Centre, Orebro University, Sweden*

TU413 | Spatial distribution of gas-phase Polycyclic Aromatic Hydrocarbons along South America and Antarctica | **Gilberto Fillmann**, *Universidade Federal do Rio Grande FURG, Brazil*

TU414 | Importance of Dermal Exposure to Polycyclic Aromatic Hydrocarbons Derived from Barbecue Fume | **Jia-yong Lao**, *Jinan University, China*

TU415 | EDS Mapping of Particles As A Component of Lichen Biomonitoring in Seattle, Washington | **Gunnar Guddal**, *Western Washington University, USA*

TU416 | TBARS in horse hair as an indicator of oil industry pollution | **Marija Kovačević**, *Department of Biology, University of Osijek, Croatia*

TU417 | Morbidity for environment-related diseases in La Spezia, northwest Italy: An epidemiological analysis on hospital discharge rates | **Francesca Lucaroni**, *University Rome Tor Vergata, Italy*

Submit your abstract by 6 June!

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“Bridging Divides Between Environmental
Stewardship and Economic Development”



SOCIAL DINNER WITH ANCIENT ROME GUIDED TOUR

Wednesday, 16 May |
6:00 p.m.–10:30 p.m. |
Meeting Point: Registration Area |
SOLD OUT

Enjoy a guided walking tour from Colosseo through Foro Romano, Piazza Venezia and Teatro Marcello, followed by a typical Roman dinner with appetiser, pasta and pizza.

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Extrapolation Across Biological Levels:
From Measurement to Assessment Endpoint
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Submit your abstract by
10 September!

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WEDNESDAY 16 MAY

Daily Schedule		Location
7:30 a.m.–6:30 p.m.	Registration Open	Registration Desk
7:30 a.m.–8:30 a.m.	Poster Setup	Exhibition Hall
08:00 a.m.–11:15 a.m.	SETAC Job Event	Meeting Room 11
8:30 a.m.–10:05 p.m.	Platform Session <i>Morning 1</i>	
10:05 a.m.–10:50 a.m.	Coffee Break & Poster Viewing	Exhibition Hall
10:50 a.m.–12:25 p.m.	Platform Session <i>Morning 2</i>	
12:25 p.m.–1:55 p.m.	Lunch Break and Poster Viewing	Exhibition Hall
1:55 p.m.–3:30 p.m.	Platform Session <i>Afternoon</i>	
12:25 p.m.–1:55 p.m.	SETAC Europe Annual General Assembly	Workshop Room
3:30 p.m.–4:15 p.m.	Coffee Break & Poster Viewing	Exhibition Hall
4:15 p.m.–5:00 p.m.	Keynote Speaker Jason Snape	Session Room A+B
5:15 p.m.–6:15 p.m.	Poster Social	Exhibition Hall
6:00 p.m.–10:30 p.m.	Social Dinner with Ancient Rome Guided Tour	Registration Desk

KEYNOTE SPEAKER

Wednesday, 16 May | 4:15 p.m.–5:00 p.m. | Session Room A+B

The Environmental Dimension of Antimicrobial Resistance: Assessing and Managing the Risks of Anti-Infectives



Jason Snape

AstraZeneca Global Safety, UK

Jason Snape is the Senior Principal Environmental Scientist within AstraZeneca and is the Director of their Safety, Health and Environment (SHE) Research and Foresight programmes. Jason is an environmental microbiologist, biochemist and environmental risk assessor who provides scientific leadership

on the pharmaceuticals in the environment (PIE) issue for AstraZeneca and helps support the wider Pharmaceutical Industry. Jason's specific expertise and research is focused on (i) the environmental risk assessment of human medicinal products, (ii) the biodegradation and persistence of chemicals in the environment, (iii) determining the significance of antimicrobial resistance (AMeeting Room) in the environment as a source of resistance for clinical infection and the development of appropriate regulatory frameworks and guidance to improve environmental risk assessment for anti-

infectives, and (iv) assessing the risks posed by medicinal products in emerging markets where use and exposure patterns differ due to the absence of adequate waste and drinking water treatment infrastructure. Most of Jason's research is focused on supporting science – and evidence-based policy and regulation. Jason is a member of the European Federation of Pharmaceutical Industry Associations (EfPIA) PIE Task Force, its Governance Team, and chairs its Environmental Risk Assessment Group. Jason also sits on the International Federation of Pharmaceutical Manufacturers and Associations (IFPMA) AMeeting Room Alliance Working Group for Manufacturing and managing its environmental impacts. Jason holds a Honorary Professorship at the Universities of Warwick and Newcastle. Jason is a member of the SETAC Pharmaceutical Interest Group and sits on the UK Natural Environment Research Council (NERC) Innovation Advisory Board.

WEDNESDAY 16 MAY

Satellite Meetings		Location
08:00 a.m.–11:15 a.m.	SETAC Job Event	Meeting Room 11
08:30 a.m.–5:00 p.m.	Smithers Viscient Meeting Room	Meeting Room 2
11:00 a.m.–12:00 p.m.	Education Committee	Meeting Room 6
11:00 a.m.–12:00 p.m.	Global SETAC Plant Interest Group Steering Committee Meeting	Meeting Room 7
12:00 p.m.–2:00 p.m.	SETAC LRP strategic goal 1(b)	Meeting Room 8
12:25 p.m.–1:55 p.m.	Agilent Lunch Seminar – Your partner for pollutant testing: Emerging to persistent	Meeting Room 3
12:25 p.m.–1:55 p.m.	SETAC Europe Annual General Assembly	Workshop Room
2:00 p.m.–7:00 p.m.	SUPFES Internal Meeting	Meeting Room 1
2:00 p.m.–4:15 p.m.	SETAC Europe Council	Meeting Room 7
2:30 p.m.–3:30 p.m.	Students Assembly	Workshop Room
4:00 p.m.–5:00 p.m.	Exposure Modelling Interest Group	Meeting Room 10
4:00 p.m.–5:30 p.m.	Global SETAC Plant Interest Group - Open meeting	Meeting Room 9
4:00 p.m.–6:00 p.m.	OMICs Interest Group	Meeting Room 6
4:30 p.m.–5:30 p.m.	Early Career Development Group	Workshop Room
4:30 p.m.–5:30 p.m.	Working group: Implementing Research for Environmental Quality	Meeting Room 8
5:00 p.m.–7:00 p.m.	LCIA Stakeholder Workgroup	Session Room N
5:15 p.m.–5:45 p.m.	CRA Information Session	Meeting Room 3
6:00 p.m.–7:00 p.m.	Wildlife Toxicology Interest Group	Session Room O
6:00 p.m.–10:30 p.m.	Social Dinner with Ancient Rome Guided Tour	Registration Desk



SETAC Europe Job Event

Students and companies meet each other to discuss job opportunities during the speed dating event. Before and after the speed dates, there will be time to network during the breakfast.

Wednesday, 16 May | 8:00 a.m.–11:15 a.m. | Meeting Room 11

SETAC Europe Annual General Assembly

Hear about the activities of SETAC Europe in 2017 and bring your vote to approve the financial report 2017, elect new members for the council and give directions for 2018.

Not sure if you are a voting SETAC Europe member? Come and meet us at the registration desk.

Wednesday, 16 May | 12:25 p.m.–1:55 p.m. | Workshop Room



PROGRAMME HIGHLIGHTS

★ Special Session

Harmful Effects of Plastic Litter and Mitigation Strategies in the Mediterranean Sea

Wednesday, 16 May | 8:30 a.m.–10:05 a.m. | Session Room Q

Maria Cristina Fossi

University of Siena, Italy

Gaetano Leone

*UNEP/Mediterranean Action Plan,
Greece*

Francesco Degli Innocenti

Novamont S.p.A., Italy

This special session fits in the general scope of the SETAC Rome meeting (“Responsible and Innovative Research for Environmental Quality”) and deals with the general problem of plastic litter, but with particular regard the Mediterranean area where the meeting will be held, with a special focus on a multi-stakeholders approach. The Mediterranean Sea is one of the most affected areas by marine litter in the world. Plastics and other polymer materials are the most common types of marine litter, representing some 80% of litter found. As larger pieces of plastic debris fragment into smaller pieces, the abundance of microplastics (plastic fragments smaller than 5 mm) in marine habitats increases; 115.000-1.050.000 particles/km² are estimated to float in the Mediterranean Sea (Fossi et al 2012; UNEP/MAP, 2015; Suaria et al., 2017). The marine litter problem in the Mediterranean is exacerbated by the basin’s limited exchanges with other oceans, highly developed coastal tourism, densely populated coasts, busy offshore waters (with 30% of the world’s maritime traffic), waste disposal sites often located close to the coast; high temperatures accelerating litter degradation into secondary products that are difficult to collect or treat; and inputs of litter from very urbanized areas and large rivers. Marine litter and in particular floating plastic have been found in the Mediterranean Sea in comparable quantities to those found in the five oceanic garbage patches. In this respect, recent studies based on global models have proposed the Mediterranean Sea as the sixth greatest accumulation zone for marine litter. Marine litter and in particular plastic fragments and microplastics’

impact on marine biota is mainly attributed to plastic ingestion: a number of plastic additives have been found in considerable concentrations in endangered marine mammals. Bigger marine litter items, like plastic bags, are a proven threat for sea turtles and especially for the endangered species *Caretta caretta*.

Despite the recent advances made within the framework of the Barcelona Convention Regional Plan for Marine Litter Management in the Mediterranean and the EU Marine Strategy Framework Directive (Descriptor 10), there is still a long way ahead to tackle marine litter in the Mediterranean and reduce the risks posed to Mediterranean marine wildlife. In line with the urgent need to act at a regional level, the Contracting Parties to the Barcelona Convention (all Mediterranean riparian countries and the EU) agreed on a Regional Plan on Marine Litter Management in the Mediterranean. The regional plan, which is the first legally binding regional instrument, aims to minimize marine litter presence and its impacts in the Mediterranean. It also specifies in its Article 18 that its implementation necessitates cooperation among regional partners and actors.

This special session envisages to showcase the Mediterranean answer to the global problem of marine litter and as such share experience on how Academy, Industry, Governance actors and different key regional stakeholders in their various capacities can work together in a coordinated manner to address Mediterranean marine litter management.

Programme

- 08:30 a.m. Introduction
- 08:35 a.m. Harmful effects of plastic litter on Mediterranean Biodiversity: What and what’s new? | **Maria Cristina Fossi**, *University of Siena, Italy*
- 08:47 a.m. Impact of marine litter in the Mediterranean Sea: Monitoring and specific reduction measures within MSFD | **Francois Galgani**, *Ifremer, France*
- 08:59 a.m. Addressing the growing threat of marine litter: NGOs essential role in strengthening the science-policy-society interface | **Thomie Vlachogianni**, *Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO-ECSDE), Greece*
- 09:11 a.m. Biodegradable plastics: Potential application in aquaculture and other applications at high risk of dispersion | **Francesco Degli Innocenti**, *Novamont S.p.A., Italy*
- 09:23 a.m. Marine Litter Governance in the Mediterranean through the implementation of the Regional Action Plan on Marine Litter Management in the Mediterranean | **Gaetano Leone**, *UNEP/Mediterranean Action Plan, Greece*
- 09:35 a.m. Science and awareness: A Mediterranean Connection Against Marine Litter. First Results of the Commitment Presented at UN Ocean Conference | **Giorgio Zampetti**, *Legambiente, Italy*
- 09:47 a.m. Discussion
- 09:57 a.m. Final Remarks | **Gaetano Leone**, *UNEP/Mediterranean Action Plan, Greece*
- 10:05 a.m. End



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PROGRAMME HIGHLIGHTS

★ Special Session

Towards a Shared Understanding of Science and Risk Communication in the Context of the Inevitability of Chemicals and the Hazard They May Represent

Wednesday, 16 May | 10:50 a.m.–3:30 p.m. | Session Room Q

Annegaike Leopold

*Calidris environment bv,
Netherlands*

Thomas-Benjamin Seiler

RWTH Aachen University, Germany

Charmaine Ajao

ECHA, Finland

Creating awareness through improvement of science and risk communication to and among stakeholders was the topic that was given highest priority by a group of environmental science stakeholders who attended the Horizon Scanning Project Stakeholder Event at the SETAC Europe Conference in Brussels on the 11th of May 2017. Hence this session is an immediate response to this recognised need.

Society cannot function in the absence of chemicals, at least not for the foreseeable future and not without radically changing our way of life. Therefore, it is essential that we find the right balance between the need for chemicals and the hazard that they might cause to human health and the environment. Essential to achieving this balance is the need for accurate communication about the real risk posed by chemicals in the environment, to be distinguished

from emotions, beliefs, concerns or even fears. Attaining a shared understanding of findings from environmental research among scientists, policy makers and the public is a challenge, and is of critical importance if we want to clearly communicate risks and make informed decisions that will protect human health and the planet building on scientific facts rather than on opinions.

This special session will address some examples of topics that are of societal concern, about which there are differences in opinion between groups. The objective of this session is to demonstrate how through good science, constructive discussion and open communication, scientific and regulatory progress, respected by all stakeholders, can be made to promote environmental sustainability.

Programme

- 10:50 a.m. Introduction
- 10:55 a.m. How researchers can work in alliance with citizens to fight misinformation and improve public debates | **Sofie Vanthournout**, *Sense About Science EU, Belgium*
- 11:10 a.m. Discussion: the need to promote good science and evidence in public debates
- 11:15 a.m. How to communicate the risks posed by endocrine disrupting chemicals? (I) | **Juliette Legler**, *Utrecht University, Netherlands*
- 11:23 a.m. How to communicate the risks posed by endocrine disrupting chemicals? (II) | **Markus Hecker**, *University of Saskatchewan, Canada*
- 11:30 a.m. Discussion Endocrine Disrupting Chemicals
- 11:35 a.m. A regulator's perspective in involving stakeholders and the public in the regulation of a substance | **Charmaine Ajao**, *ECHA, Finland*
- 11:50 a.m. Questions and Discussion
- 11:55 a.m. General Discussion with panel of Sofie Vanthournout, Juliette Legler and Markus Hecker
- 12:20 p.m. Concluding remarks part I and a teaser for part II! | **Annegaike Leopold**
- 12:25 p.m. Lunch and poster viewing
- 1:55 p.m. Introduction
- 2:00 p.m. Nanotechnology: When shading effects through agglomeration of carbon nanotubes (CNT's) are confused with toxicity by media and the public – a case example revisited | **Fabienne Schwab**, *Adolphe Merkle Institute, Switzerland*
- 2:08 p.m. Nanotechnology: Communicating scientific findings through media – what could possibly go wrong? Lessons learned from Schwab's nanotubes | **Gunilla Öberg**, *The University of British Columbia, Canada*
- 2:15 p.m. Discussion Nanotechnology
- 2:20 p.m. Microplastics: The risks of plastics – perceived or real? | **Michiel Kotterman**, *IMARES – Wageningen University & Research, Netherlands*
- 2:30 p.m. Lost in translation: Do we communicate the risks of (micro)plastics in the right way? | **Martin Wagner**, *Norwegian University of Science and Technology, Norway*
- 2:40 p.m. Ocean Literacy – changing attitudes and behaviour of society in the face of the problems of the oceans | **Angel Borja**, *AZTI-Tecnalia, Spain*
- 2:50 p.m. Discussion Microplastics
- 3:00 p.m. General discussion with panel of all speakers about topics emerging from the session
- 3:25 p.m. Wrap-up and closing | **Annegaike Leopold**
- 3:30 p.m. End

	8:35 a.m.	8:50 a.m.	9:05 a.m.
Session Room A	Ecological Risks Under Complex, Multiple-Stressor Threat Scenarios: Integrating Chemical Effects With Environmental...		
	362 Towards a systematic approach for the assessment of multiple stressors: Making Aquatic Ecosystems Great Again (MAEGA) Donald Baird , <i>Environment Canada, Canada</i>	363 Predicting the response of ditch ecosystems to multiple stressors Sally Bracewell , <i>Wageningen University & Research, Netherlands</i>	364 The combined effects of nutrients and thiacloprid on macrofauna invertebrate population and community responses Henrik Barmantlo , <i>Leiden University, Netherlands</i>
Session Room B	PBT/vPvB & PMT/vPvM Substances and Non-Extractable Residues (NER): Scientific Strategies, Analytical Challenges and...		
	368 RPLC-HILIC and SFC coupled with Mass Spectrometry: Polarity Extended Screening of organic molecules in the aqueous environment Stefan Bieber , <i>Technical University of Munich, Germany</i>	369 Removal options and transformations of persistent mobile organic chemicals during production of drinking water Arnaud Touffet , <i>IC2MP CNRS, France</i>	370 Removal of polar micropollutants from drinking water by reverse osmosis: A pilot scale study Vittorio Albergamo , <i>University of Amsterdam/IBED Institute, Netherlands</i>
Session Room C	Product Benefits and Positive Outcomes: Valuation and Beyond Enrico Benetto, Till Bachmann, Katerina Stylianou		
	374 A need for a better characterisation of product benefit in life cycle sustainability assessment Thomas Schaubroeck , <i>Luxembourg Institute of Science and Technology (LIST), Luxembourg</i>	375 Assessing nutritional impacts and benefits on human health in LCA: A new midpoint impact category Katerina Stylianou , <i>University of Michigan – School of Public Health, USA</i>	376 Combining Operational Research and Life Cycle Assessment to optimize the environmental performance of Peruvian diets Ian Vázquez-Rowe , <i>Pontifical Catholic University of Peru, Peru</i>
Session Room D	Advances in Monitoring and Evaluating Remedy Effectiveness for In Situ Amendments in Soils and Sediments ...		
	380 Assessment of Human Health Benefits and Risks of Contaminated Sediment Remediation Jacob Kvasnicka , <i>University of Michigan, USA</i>	381 Six inches under: Remediation efficiency of activated carbon caps buried by dynamic sediment movement Sebastian Abel , <i>University of Eastern Finland, Finland</i>	382 Ecosafe nanotechnologies for environmental remediation: The NANOBOND project Ilaria Corsi , <i>University of Siena, Italy</i>
Session Room E	Analysis and Fate of Emerging Contaminants in Soils, Water and Plants Under Water Scarcity (I) Damia Barcelo, Yolanda Pico		
	386 Determination of dioxin-like polychlorinated biphenyls in land near the dumps of some settlements of the Republic of Armenia Anahit Aleksandryan , <i>Hazardous Substances & Waste Policy Division, Armenia</i>	387 Associated Health Effects of Veterinary Pharmaceutical Residues in Wastewaters around Selected Livestock Agriculture Farms in Western Cape Province OS Fatoki , <i>Cape Peninsula University of Technology, South Africa</i>	388 Characterization of respective contribution of agriculture and urban sources to pesticide contamination of a peri-urban river Vincent Dufour , <i>EPOC – UMR 5805 CNRS, France</i>
Session Room M	Prioritisation and Intelligent Testing of Pharmaceuticals in the Environment (I) Beate Escher, Ines Rönnefahrt, Anja Coors,...		
	392 Environmental Risk Assessment of Active Pharmaceutical Ingredients used in Human Medicinal Products: Europe-wide Variation in Risk Quotient Jason Snape , <i>AstraZeneca UK Ltd., UK</i>	393 Estimation and prioritization of hospital API emissions Ad Ragas , <i>Radboud University, Netherlands</i>	394 Development and validation of a model to predict concentrations of human APIs in European surface waters Rik Oldenkamp , <i>Radboud University Nijmegen, Netherlands</i>
Session Room N	Plants: Predicting and Assessing Direct, Indirect Effects and Recovery of Plants from Chemical Stress Stefania Loutseti,...		
	398 Waterplants in Risk Assessment – Selection of Potential Plant Species – Impact of Different Test Guidelines Guido Gonsior , <i>Eurofins Agroscience Services Ecotox GmbH, Germany</i>	399 Applying the EFSA Scientific Opinion on NTTp: Testing non-crop species and the reproductive capability of selected species under greenhouse conditions Andreas Duffner , <i>Eurofins Agroscience Services Ecotox GmbH, Germany</i>	400 Predicting plant community level effects of herbicides based on monoculture dose-responses: Testing the plant community model IBC-grass with experimental data Jette Reeg , <i>University of Potsdam, Germany</i>
Session Room O	Environmental Monitoring of Contaminants Using Terrestrial Ecological Biomonitors Sofia Augusto, Nuno Ratola,...		
	404 Persistent Organic Pollutants in Germany: Results from the 2015/2016 moss and tree sampling Annekatriin Dreyer , <i>Eurofins GfA GmbH, Germany</i>	405 Mapping percentile statistics of element concentrations in moss collected from 1990 to 2015 in forests throughout Germany Stefan Nickel , <i>University of Vechta, Germany</i>	406 Heavy metal and nutrient concentrations in different age classes of holm oak leaves and pine needles – a reference for biomonitoring and geochemistry Fabrizio Monaci , <i>University of Siena, Italy</i>
Session Room P	Systems Ecotoxicology: Application of OMICs Data Across Multiple Level of Biological Organisation in Research and Risk...		
	410 Transcriptomic responses of the endangered freshwater mussel <i>Margaritifera margaritifera</i> to trace metal contamination Anthony Bertucci , <i>Université de Bordeaux, France</i>	411 LC-HRMS based-metabolomics to highlight biotransformation products and effects of diclofenac in <i>Mytilus galloprovincialis</i> Frederique Courant , <i>Université de Montpellier – UMR 5569 Hydrosiences, France</i>	412 Metabolomics used to link affected molecular pathways with behaviour outcomes after a single dose of pesticide exposure in mice Pim Leonards , <i>VU University, Netherlands</i>
★	Harmful Effects of Plastic Litter and Mitigation Strategies in the Mediterranean Sea Maria Cristina Fossi, Gaetano Leone,...		
Session Room Q	8:35 a.m.	8:47 a.m.	9:11 a.m.
	416 Harmful effects of plastic litter on Mediterranean Biodiversity: What and what's new? Maria Cristina Fossi , <i>University of Siena, Italy</i>	417 Impact of marine litter in the Mediterranean Sea: Monitoring and specific reduction measures within MSFD Francois Galgani , <i>IFREMER, France</i>	418 Addressing the growing threat of marine litter: NGOs essential role in strengthening the science-policy-society interface Thomie Vlachogianni , <i>Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO-ECSDE), Greece</i>
			419 Biodegradable plastics: Potential application in aquaculture and other applications at high risk of dispersion Francesco Degli Innocenti , <i>Novamont SpA, Italy</i>

	9:20 a.m.	9:35 a.m.	9:50 a.m.		
Session Room A	...Drivers (I) Paul van den Brink, Katherine Dafforn, Mirco Bundschuh				
	365 Macroinvertebrate communities across a gradient of multiple stressors from agricultural land use in Romanian streams Verena Schreiner, University of Koblenz Landau, Germany	366 Daily temperature variation determines the toxicity of a pesticide mixture Vienna Delnat, KU Leuven, Belgium	367 Warming and daily temperature fluctuations make the pesticide chlorpyrifos more toxic in Ischnura elegans damselflies Julie Verheyen, KU Leuven, Belgium	COFFEE BREAK	
Session Room B	...Regulatory Issues (I) Stefan Hahn, Andreas Schaeffer, Michael Neumann				
	371 Identification of transformation-derived very polar organic water contaminants and their relevance in the water cycle Daniel Zahn, Hochschule Fresenius, Germany	372 The limited chemical application domain of regulations: An illustration using the POP screening assessment in the Stockholm Convention Michael McLachlan, Stockholm University, Sweden	373 'One for all and all for one' – Can we REACH a harmonised PBT-assessment across EU-regulatory frameworks? Caren Rauert, Umweltbundesamt, Germany		
Session Room C	Product Benefits and Positive Outcomes: Valuation and Beyond Enrico Benetto, Till Bachmann, Katerina Stylianou				
	377 Using the first Swiss dietary survey to determine the environmental and health benefits and impacts of various dietary patterns Alexi Ernstoff, Quantis, Switzerland	378 The cost of CO2 in Life Cycle Assessment Yan Dong, Technical University of Denmark, Denmark	379 Poster spotlight: WE257, WE258, WE259		
Session Room D	...Gijs D. Breedveld, Amy Oen				
	383 Possibility of using a genotoxic tests in planning precise phytoremediation of depleted soils enriched in organic amendments Aneta Murtaś, Czestochowa University of Technology, Poland	384 Sorption of pharmaceuticals in soil systems Jun Li, Environmental Department University of York, UK	385 In vitro and in vivo assays to evaluate chlordecone transfer to animals: Interest of soil amendment Matthieu Delannoy, URAFPA-INRA, France		
Session Room E	Analysis and Fate of Emerging Contaminants in Soils, Water and Plants Under Water Scarcity (I) Damia Barcelo, Yolanda Pico				
	389 Study of bioconcentration of benzophenone-3 in Gilt-head Bream and characterization of its by-products Haizea Ziarrusta, University of the Basque Country UPV/EHU, Spain	390 Phragmites australis enantioselectively uptake, translocate and degrade the chiral pesticides tebuconazole and imazalil Pedro Carvalho, Aarhus University, Department of Environmental Science, Denmark	391 Effects of the non-steroidal antiinflammatory ibuprofen on growth and metabolic profiles of Vigna Unguiculata Yolanda Pico, University of Valencia, Spain		
Session Room M	...Rik Oldenkamp				
	395 Occurrence and fate of the antidiabetic metformin and its transformation products Selina Tisler, Center for Applied Geoscience, University of Tuebingen, Germany	396 Development of biotransformation half-life QSARs and PBT assessment refinement of Pharmaceuticals and Personal Care Products Ester Papa, University of Insubria, Italy	397 Predicting spatial and temporal variability in internal concentrations of amitriptyline in invertebrates within an urban catchment Alessia Giorgis, University of York, UK		
Session Room N	...Udo Hommen, Henry Krueger, Gertie Arts				
	401 Use in risk assessment of recovery in plants from exposure to chemicals Henry Krueger, EAG Laboratories, USA	402 Aquatic primary producers and plant protection products: Endpoints and level of protection achieved in the first tier of the risk assessment scheme Sabine Duquesne, UBA, Federal Environment Agency, Germany	403 Poster spotlight: WE152, WE153, WE154		
Session Room O	...Mira Aničić Urošević				
	407 Examining historical trends in diet and contaminant exposure in bats using bat guano deposits from Jamaica Lauren Gallant, University of Ottawa, Canada	408 Perfluoroalkyl substances and metallic elements in South African dragonflies Velesia Lesch, North-West University, South Africa	409 Bioavailability of Arsenic and Antimony co-contamination to vegetable crops in agricultural soils Lakmini Egodawatta, University of Wollongong, Australia		
Session Room P	...Assessment (I) Anze Zupanic, Bruno Campos, Philipp Antczak, Jana Asselman				
	413 Relationships Between Persistent Pollutant and Metabolomics Profiles in Tissues of Polar Bears From Hudson Bay, Canada Robert Letcher, Environment and Climate Change Canada, Canada	414 Integrative Omics linkage to reproduction effects of a fungicide in the soil invertebrate Folsomia candida Tiago Simoes, Polytechnic Institute of Leiria, Portugal	415 Using functional genomics to find mechanisms of herbicide toxicity in Chlamydomonas reinhardtii Anze Zupanic, Eawag Swiss Federal Institute of Aquatic Science and Technology, Switzerland		
★	...Francesco Degli Innocenti				
Session Room Q	9:23 a.m.	9:35 a.m.	9:47 a.m.	9:57 a.m.	
	420 Marine Litter Governance in the Mediterranean through the implementation of the Regional Action Plan on Marine Litter Management in the Mediterranean Gaetano Leone, UNEP/Mediterranean Action Plan, Greece	421 Science and awareness: A Mediterranean Connection Against Marine Litter. First Results of the Commitment Presented at UN Ocean Conference Giorgio Zampetti, Legambiente, Italy	422 Discussion	423 Final Remarks Gaetano Leone, UNEP/Mediterranean Action Plan, Greece	

COFFEE BREAK

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COFFEE BREAK

	10:55 a.m.	11:10 a.m.	11:25 a.m.
Session Room A	Ecological Risks Under Complex, Multiple-Stressor Threat Scenarios: Integrating Chemical Effects With Environmental...		
	424 Biodiversity patterns in the GLOBAQUA basins and their relationships with multiple stressors Nuria De Castro-Català , <i>Universitat de Barcelona, Spain</i>	425 Changes in pCO2 alter the reproductive toxicity of common active pharmaceutical ingredients Cameron Hird , <i>University of Exeter, UK</i>	426 From individual traits to ecosystem functioning: Natural phytoplankton community responses under combined environmental stress and chemical pollution Didier L Baho , <i>Nowegian Institute for water research, Norway</i>
Session Room B	PBT/vPvB & PMT/vPvM Substances and Non-Extractable Residues (NER): Scientific Strategies, Analytical Challenges and...		
	430 Evaluation of PBT and vPvB substances based on exposure dynamics, use-specific impacts and costs for emission reduction or abatement in the context of REACH Silke Gerda Margaret Gabbert , <i>Wageningen University, Netherlands</i>	431 Grouping and relative ranking of the impact potential of PBT/vPvB substances for comparative assessments in the context of socio-economic analysis under REACH Monika Nendza , <i>Analytisches Laboratorium, Germany</i>	432 Interpretation of non-extractable residues (NERs) in the persistence assessment Ulrich Jöhncke , <i>Federal Environment Agency (UBA), Germany</i>
Session Room C	LCA and Beyond - Integrating Sustainability and/or Other Dimensions to Improve Decision Support (I) Serenella Sala,...		
	436 How to make LCA fit for purpose as decision making tool Eric Mieras , <i>PRe Sustainability, Netherlands</i>	437 Using Life Cycle Assessment (LCA) to Evaluate Global 6-Aminopenicillanic Acid (6-APA) Manufacture and Make Recommendations for Future Developments in the Biopharmaceutical Charnett Chau , <i>University College London, UK</i>	438 A sustainability performance-based methodology and tool for ecodesign: The case of transport infrastructures Davide Lo Presti , <i>The University of Nottingham, UK</i>
Session Room D	Environmental Risk Assessment and Management of the Spoil Material Produced in Tunnelling Excavation ...		
	442 Characterization and management of excavated soil and rock Giuseppe Mininni , <i>CNRIRSA, Italy</i>	443 Realization of road gallery: Advantages, criticality and future perspectives Sara Frisiani , <i>Spea Engineering S.p.A., Italy</i>	444 Management of the spoil material produced by EPB-TBM: From experimental design to the excavation phase Sara Padulosi , <i>Italferr SpA, Italy</i>
Session Room E	Analysis and Fate of Emerging Contaminants in Soils, Water and Plants Under Water Scarcity (II) Damia Barcelo, Yolanda Pico		
	448 Quantification of Carbon Nanotubes in Complex Matrices: Possibilities of Electron Microscopy Ralf Kaegi , <i>Eawag - Swiss federal Institute of Aquatic Science and Technology, Switzerland</i>	449 Monitoring for perfluorinated compounds, insecticides, and brominated flame retardants in the water of Daechung lake and Geum river basin Hyeri Lee , <i>National Institute of Environmental Research (NIER), South Korea</i>	450 Impacts of Contaminants of Emerging Concern on Terrestrial Organisms Stacia Dudley , <i>UC Riverside, USA</i>
Session Room M	Prioritisation and Intelligent Testing of Pharmaceuticals in the Environment (II) Beate Escher, Ines Rönnefahrt,...		
	454 Inter-individual variation in the bioavailability and effects of NSAIDS in fish Andrew Ross Brown , <i>Exeter University, UK</i>	455 Environmental effect assessment of human pharmaceuticals - the regulatory way forward Jean Bachmann , <i>German Environment Agency (UBA), Germany</i>	456 Prioritising human health risk of environmental residues of pharmaceuticals and personal care products in use in southern Nigeria Udochi Agusiegbe , <i>University of York, UK</i>
Session Room N	Emergence and Multidimensional Interactions of Engineered Nanoparticles in Toxicology Sankar Ganesh Palani,...		
	460 Effects of fullerene C60 increasing concentrations in <i>Mytilus galloprovincialis</i> : Role of mTOR in cellular/tissue alterations Aldo Viarengo , <i>IRCCS Istituto di Ricerche Farmacologiche Mario Negri, Italy</i>	461 Proteomic responses to nanoparticulate and ionic silver in freshwater microbes with different background Diana Barros , <i>Universidade do Minho, Portugal</i>	462 Hazard assessment of seven different commercial silica nanoparticles on a battery of test species: Bacteria, algae and fish cell lines Frida Book , <i>University of Gothenburg, Sweden</i>
Session Room O	Improving the Environmental Risk Assessment of the Aquaculture 'Blue Revolution' Andreu Rico, Paul van den Brink,...		
	466 Tools for Assessment and Planning of Aquaculture Sustainability (TAPAS) Paul van den Brink , <i>Alterra and Wageningen University, Netherlands</i>	467 Preliminary investigation on the occurrence of multifunctional organic micropollutants in offshore seawater and fish farm Karina Yew-Hoong Gin , <i>National University of Singapore, Singapore</i>	468 Perspectives on Urbanization, Water Reuse, and Aquaculture Product Quality Bryan Brooks , <i>Baylor University, USA</i>
Session Room P	Systems Ecotoxicology: Application of OMICs Data Across Multiple Level of Biological Organisation in Research and Risk...		
	472 Systems toxicology approach for the assessment of zebrafish cardiac and neurotoxicity Roman Li , <i>Philip Morris International, Switzerland</i>	473 Time response relationship between gene expression and life history in a Daphnia population exposed to heavy metals Jana Asselman , <i>Ghent University, Belgium</i>	474 How to implement functional responses of microalgae in risk assessment processing? Floriane Larras , <i>Helmholtz Center for Environmental Research - UFZ GmbH, Germany</i>
★ Session Room Q	Towards a Shared Understanding of Science and Risk Communication in the Context of the Inevitability of Chemicals...		
	10:55 a.m.	11:10 a.m.	11:15 a.m.
	478 How researchers can work in alliance with citizens to fight misinformation and improve public debates Sofie Vanthournout , <i>Sense About Science EU, Belgium</i>	479 Discussion: The need to promote good science and evidence in public debates	480 How to communicate the risks posed by endocrine disrupting chemicals? (I) Juliette Legler , <i>Utrecht University, Netherlands</i>
			11:23 a.m.
			481 How to communicate the risks posed by endocrine disrupting chemicals? (II) Markus Hecker , <i>University of Saskatchewan, Canada</i>

	11:40 a.m.	11:55 a.m.	12:10 p.m.		
Session Room A	...Drivers (II) Paul van den Brink, Katherine Dafforn, Mirco Bundschuh				
	427 The role of multiple stressors in an Alpine river and the response of the macroinvertebrate community Monica Giulivo , <i>Universita Cattolica del Sacro Cuore, Italy</i>	428 Coping with antidepressants in a changing ocean: Tissue bioaccumulation and behavioural implications in juvenile <i>Argyrosomus regius</i> exposed to venlafaxine Ana Luísa Maulvault , <i>Instituto Português do Mar e da Atmosfera, Portugal</i>	429 A modelling approach to assess present and future land use pressures on a salmonid river: A case study in the River Tamar catchment (UK) Marta Assuncao , <i>Cefas Lowestoft Laboratory, UK</i>		LUNCH BREAK
Session Room B	...Regulatory Issues (II) Stefan Hahn, Andreas Schaeffer, Michael Neumann				
	433 Quantification of different NER fractions in soil – Extraction matters Jens Hogeback , <i>Federal Institute of Hydrology, Germany</i>	434 Elucidation of the nature of soil bound non extractable residues Markus Telscher , <i>Bayer AG Division CropScience/Environmental Fate, Germany</i>	435 A tool to establish the role of Non-Extractable Residues (NER) in soil on toxicity Joop Harmsen , <i>Wageningen Environmental Research, Netherlands</i>		LUNCH BREAK
Session Room C	...Roland Hirschier, Yan Dong				
	439 Influence diagrams and scoping for Life Cycle and Sustainability Assessment, an example from sustainable mining Andreas Ciroth , <i>GreenDelta, Germany</i>	440 Life Cycle Sustainability Assessment for Improved Space Mission Design Andrew Wilson , <i>University of Strathclyde, UK</i>	441 How can Agent-based Modeling improve decision making in Life Cycle Assessment? Alice Micolier , <i>University of Bordeaux, France</i>		LUNCH BREAK
Session Room D	... Anna Barra Caracciolo, Paola Grenni, Luisa Patrolecco, Antonello Martino				
	445 Environmental effect of chemicals injected into the soil in mechanized tunnelling applications Irene Bavasso , <i>Università La Sapienza, Italy</i>	446 Site-specific protocol to assess the environmental compatibility of spoil materials produced by EPB-TBM Anna Barra Caracciolo , <i>National Research Council, Italy</i>	447 Mineral-based soil conditioner for EPB TBMs: An environmentally friendly alternative Mike Greenhill-Hooper , <i>Imerys, France</i>		LUNCH BREAK
Session Room E	Analysis and Fate of Emerging Contaminants in Soils, Water and Plants Under Water Scarcity (II) Damia Barcelo, Yolanda Pico				
	451 Occurrence of pharmaceuticals and their metabolites in <i>Euthynnus alletteratus</i> bile Juan Peña Herrera , <i>Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain</i>	452 Accumulation and fate of 12 human drugs through the soil-root-leaf system Nicola Montemurro , <i>IDAEA CSIC Barcelona, Spain</i>	453 Root-uptake and dissipation of atenolol, sulfamethoxazole and carbamazepine applied as a single compound solution or in mixture of all compounds in three soils and five plants Radka Kodesova , <i>Czech University of Life Sciences Prague, Czech Republic</i>		LUNCH BREAK
Session Room M	...Anja Coors, Rik Oldenkamp				
	457 Aquatic toxicity related to pharmacological or secondary targets of human pharmaceuticals Anja Coors , <i>ECT Oekotoxicologie GmbH, Germany</i>	458 Neurotoxicity testing approach to investigate venlafaxine and oxazepam modulation of transcriptomics and behavioral profiles in zebrafish embryos and larvae Carolina Di Paolo , <i>RWTH Aachen University, Germany</i>	459 Virtual fish tales: Liver, Intestinal and Gill Organoids as an in vitro alternative to live fish for prioritising pharmaceuticals and other compounds of highest concern in the environment Stewart Owen , <i>AstraZeneca, UK</i>		LUNCH BREAK
Session Room N	...Siva Prasad Bitragunta, Samuel Thompson, Richard Cross				
	463 Toxicity Assessment of Engineered Titanium Dioxide Nanoparticles Sankar Ganesh Palani , <i>Birla Institute of Technology & Science, Hyderabad Campus, India</i>	464 Combination effects of chlorpyrifos and ZnO on oxidative stress and reproduction of the earthworm <i>Dendrobaena veneta</i> Željka Lončarić , <i>University of Osijek, Croatia</i>	465 Poster spotlight: WE305, WE323, WE324		LUNCH BREAK
Session Room O	...Ailbhe Macken, Trevor Telfer				
	469 Bioaccumulation of selected veterinary medicines in the blue mussel (<i>Mytilus edulis</i>) Steven Brooks , <i>NIVA, Norway</i>	470 Contribution of nuclear applications to better understand bioaccumulation of contaminants in aquaculture species Marc Metian , <i>IAEA-EL, Monaco</i>	471 Effects of antibiotic's medicated fish feed in the marine environment Belen Gonzalez-Gaya , <i>IMDEA Water, Spain</i>		LUNCH BREAK
Session Room P	...Assessment (II) Anze Zupanic, Bruno Campos, Philipp Antczak, Jana Asselman				
	475 Sex, drugs and <i>Daphnia magna</i> . A multi-omics approach suggests conserved mechanisms of interaction between metallothioneins and endocrine disruptors Eva Caamano-Gutierrez , <i>University of Liverpool, UK</i>	476 Data-driven systems biology approach gives insight into a complex process of water remediation Jaanika Kronberg-Guzman , <i>The University of Birmingham, UK</i>	477 Co-expression network analysis of massive proteogenomic data: applications in ecotoxicology Davide Degli Esposti , <i>Irstea, France</i>		LUNCH BREAK
★ Session Room Q	...and the Hazard They May Represent (I) Annegaaike Leopold, Thomas-Benjamin Seiler, Charmaine Ajao				
	11:30 a.m.	11:35 a.m.	11:50 a.m.	11:55 a.m.	12:20 p.m.
	482 Discussion Endocrine Disrupting Chemicals	483 A regulator's perspective in involving stakeholders and the public in the regulation of a substance Charmaine Ajao , <i>ECHA-European Chemicals Agency, Finland</i>	484 Questions and Discussion	485 General Discussion with panel of Sofie Vanthournout, Juliette Legler and Markus Hecker	486 Concluding remarks part I and a teaser for part II! Annegaaike Leopold

	2:00 p.m.	2:15 p.m.	2:30 p.m.	
Session Room A	Ecological Risks Under Complex, Multiple-Stressor Threat Scenarios: Integrating Chemical Effects with Environmental...			
	487 The impact of chemical pollution on the resilience of soils under multiple stress Andreas Schaeffer , RWTH Aachen University, Germany	488 Combined effects of temperature and metal exposure on cell membrane fatty acid composition, lipid peroxidation, antioxidant capacities and desaturase and elongase transcription in freshwater fish Patrice Couture , INRS, Canada	489 The effect of water chemistry on cadmium induced olfactory impairment in juvenile rainbow trout (<i>Oncorhynchus mykiss</i>) Sina Volz , RWTH Aachen University, Germany	
Session Room B	Improving the Quality of Ecotoxicological Testing and Assessment Simon Gutierrez, Lennart Weltje, James R. Wheeler			
	493 Updating the OECD Guidance Document 23 on aquatic toxicity testing of difficult substances and mixtures to include state-of-the-science approaches Wesley Hunter , U.S. Food & Drug Administration, USA	494 Calibrating Non-Target Arthropod (NTA) Lower Tier Assessment Factors Paul Neumann , Bayer Ag, Germany	495 The unforeseen consequences for animal welfare of the OECD TG 240 (MEOGRT) biological validity criteria Edward Salinas , BASF SE, Germany	
Session Room C	LCA and Beyond – Integrating Sustainability and/or Other Dimensions to Improve Decision Support (II) ...			
	499 Integration of Risk Assessment and Life Cycle Assessment in the context of recycling wood waste into particleboard Sophie Huysveld , Ghent University, Belgium	500 Development of non-conventional LCA indicators for circular characteristics of bio-based products Kadambari Lokesh , University of York, UK	501 Toward a more sustainable biochemical industry – Early stage assessments and methodological overlaps between life cycle – and techno-economic assessments of biochemicals Ólafur Ögmundarson , DTU (Technical University of Denmark), Denmark	
Session Room D	Environmental Risk Assessment in Sediments Sebastian Höss, Ute Feiler, Daniel Faber, Paul Sibley			
	505 Assessment of risk from historic contaminants in sediments of the Elbe flood plain, using a multiple line of evidence approach Susanne Heise , Hamburg University of Applied Sciences, Germany	506 Multiple lines of evidence for risk assessment of old sea deposits for ilmenite mine tailings in SW Norway Morten Thorne Schaanning , NIVA – Norwegian Institute for Water Research, Norway	507 In situ metal fluxes for the assessment of metal bioavailability in sediments Elvio Amato , University of Antwerp, Belgium	
Session Room E	Wastewater Effluents: How Research Can Improve Risk Assessment and Regulation Dean Leverett, Mirco Bundschuh			
	511 Effects of untreated wastewater dilution in surface waters on pharmaceuticals natural attenuation and on the community genomics: Implications for ERA Simone Bagnis , Plymouth University, UK	512 Active Pharmaceutical Ingredients Entering the Aquatic Environment From Wastewater Treatment Works: Measurement, Prediction, Risk – A Cause for Concern? Sean Comber , Plymouth University, UK	513 Impact of a wastewater treatment plant upgrade on amphipods and other macroinvertebrates: Individual and community responses Katharina Peschke , Tübingen University, Germany	
Session Room M	Antibiotics and Antibiotic Resistance in the Environment: Fate and Ecological Effects, Resistance Development and...			
	517 Identifying hotspots of Antimicrobial Resistance Selection in the Natural Environment Jonathan Sallach , University of York, UK	518 Urban and rural antibiotic resistance Clare McCann , Newcastle University, UK	519 Dissemination of extending-spectra β -lactamase E. coli carrying multidrug resistance and virulence factors in tropical rivers receiving hospital effluents Amandine Laffite , University of Geneva, Switzerland	
Session Room N	Distribution, Transformations and Biological Effects of Incidental Nanoparticles and Nanoplastics in the Environment...			
	523 Inter-annual monitoring of microplastics in marine intertidal sediments of the Firth of Forth Mark Hartl , Heriot-Watt University, UK	524 Do nanoparticles cause stress effects on microalgae? An infrared spectroscopy study Maureen Déniel , Institute of molecules and materials of Le Mans, France	525 Ecotoxicological evaluation of high-generation cationic PAMAM dendrimers towards a representative organism of aquatic ecosystems Gerardo Pulido-Reyes , Universidad Autónoma de Madrid, Spain	
Session Room O	Luminescent Biomonitoring via Bioassays of Different Complexity – From Cells Trough Enzyme Reactions to Proteins ...			
	529 Applications of Luminous Bacteria Enzymes in Toxicology and Ecology Valentina Kratasyuk , Siberian Federal University, Russia	530 Toxic and adaptive effects via luminescent assay systems of different complexity: Bacterial cells, enzyme reactions, and fluorescent proteins Nadezhda Kudryasheva , Institute of Biophysics SB RAS, Russia	531 Assaying the prooxidant and antioxidant potentials of nicotine products: Tobacco versus electronic cigarettes Aleksei Trofimov , Emanuel Institute of Biochemical Physics, Russian Academy of Sciences, Russia	
Session Room P	Obesogens and Lipid Disruptors Cinta Porte, Filipe Castro, Miguel Santos, Carlos Barata			
	535 The evolution of obesogen-induced phenotypes in vertebrates Filipe Castro , CIIMAR – University of Porto, Portugal	536 Aging Extension and Modifications of Lipid Metabolism in the Monogonont Rotifer <i>Brachionus koreanus</i> under Chronic Caloric Restriction Min-Chul Lee , Sungkyunkwan University, South Korea	537 Lipidomic and transcriptomic changes induced by compounds enhancing accumulation of storage lipids in <i>Daphnia magna</i> Inmaculada Fuertes , Institute of Environmental Assessment and Water Research IDAEA CSIC, Spain	
★	Towards a Shared Understanding of Science and Risk Communication in the Context of the Inevitability of Chemicals...			
Session Room Q	2:00 p.m.	2:08 p.m.	2:15 p.m.	2:20 p.m.
	541 Nanotechnology: When shading effects through agglomeration of carbon nanotubes (CNT's) are confused with toxicity by media and the public – a case example revisited Fabienne Schwab , Adolphe Merkle Institute, Switzerland	542 Nanotechnology: Communicating scientific findings through media – what could possibly go wrong? Lessons learned from Schwab's nanotubes Gunilla Oberg , UBC, Canada	543 Discussion Nanotechnology	544 Microplastics: The risks of plastics – perceived or real? Michiel Kotterman , IMARES, Netherlands

	2:45 p.m.	3:00 p.m.	3:15 p.m.		
Session Room A	...Drivers (III) Paul van den Brink, Katherine Dafforn, Mirco Bundschuh				
	490 Physiological and biochemical responses of polychaetes: Interplay of elements contaminated sediments and salinity changes Adília Pires , <i>Universidade de Aveiro, Portugal</i>	491 Do trace metal contamination and parasitism infestation influence the activity of the bioturbator <i>Upogebia pusilla</i> ? Annabelle Dairain , <i>EPOC, University of Bordeaux, France</i>	492 Integrating ecotoxicology and ecology to advance understanding and prediction in multiple stressor research Ralf Bernhard Schäfer , <i>University Koblenz Landau, Germany</i>		
Session Room B	Improving the Quality of Ecotoxicological Testing and Assessment Simon Gutierrez, Lennart Weltje, James R. Wheeler				
	496 Variability in Non-Target Terrestrial Plant Studies Should Inform Endpoint Selection Jane Staveley , <i>Exponent, USA</i>	497 An avian reproduction study historical control database: A tool for data interpretation James R. Wheeler , <i>Dow Agrosciences, UK</i>	498 Experimental Design and Model Selection for Ecotox Risk Assessment John Green , <i>DuPont, USA</i>		
Session Room C	...Serenella Sala, Roland Hischier, Yan Dong				
	502 A risk evaluation approach for indirect land use change associated to biobased products Diego Marazza , <i>University of Bologna, Italy</i>	503 How to find sustainable applications for new materials and how to overcome the relativity of LCA Claudia Som , <i>EMPA Technology & Society Lab, Switzerland</i>	504 Consumption and consumer footprint: LCA as pivotal methodology for assessing consumption patterns and ecoinnovations Serenella Sala , <i>European Commission - Joint Research Centre, Italy</i>		
Session Room D	Environmental Risk Assessment in Sediments Sebastian Höss, Ute Feiler, Daniel Faber, Paul Sibley				
	508 An Overview of the Refinements and Improvements to the USEPA's Sediment Toxicity Methods for Freshwater Sediment Teresa Norberg-King , <i>U.S. EPA, USA</i>	509 Sediment-spiked toxicity tests with benthic macro-invertebrates and the fungicide fludioxonil Ivo Roessink , <i>Alterra, Netherlands</i>	510 Spatio-temporal exposure of Plant Protection Products in OECD 219 sediment test systems - Comparison of model results with measurements Klaus Hammel , <i>Bayer AG, Crop Science Division, Germany</i>		
Session Room E	Wastewater Effluents: How Research Can Improve Risk Assessment and Regulation Dean Leverett, Mirco Bundschuh				
	514 Effects of full-scale ozonation of treated effluent - Environmental impact in a receiving river Jerker Fick , <i>Umea University, Sweden</i>	515 <i>Dreissena polymorpha</i> as purifier tool of protozoa in wastewater treatment plant effluent Elodie Géba , <i>University of Reims ChampagneArdenne, France</i>	516 Aquatic macrophytes potential for the removal of water contaminants - The Green Liver Application Sabrina Loise Calado , <i>Universidade Federal do Paraná, Brazil</i>		
Session Room M	...Implications for Human Health Edward Topp, Jason Snape, Kristian Brandt				
	520 Methods for determining selective endpoints of antimicrobials Aimee Murray , <i>University of York, UK</i>	521 Determining the minimal selective concentrations of macrolides in a complex microbial community Isobel Stanton , <i>University of Exeter, UK</i>	522 Impact of multi-year exposure of agricultural soils to antibiotics on the soil resistome and mobilome Edward Topp , <i>Agriculture and Agri-Food Canada (AAFC), Canada</i>		
Session Room N	...From a More Realistic Point of View Gerardo Pulido-Reyes, Roberto Rosal				
	526 Interactive effects of carbon nanoparticles and benzo(a)pyrene on marine mussels, <i>Mytilus galloprovincialis</i> Awadhesh Jha , <i>Plymouth University, UK</i>	527 Trophic transfer of CuO NPs and Aqueous Cu: From worms to fish - a proof of concept study Tobias Lammel , <i>University of Gothenburg, Sweden</i>	528 <i>Corbicula fluminea</i> exposure to copper oxide nanoparticles: An integrated mesocosm study Laure Giamberini , <i>Université de Lorraine, France</i>		
Session Room O	...Nadezhda Kudryasheva, Valentina Kratasyuk, Elizaveta Kolosova, Anna Sachkova				
	532 The possibilities of using fungal fluorophores to assess responses of filamentous fungi to external stimuli Elena Fedoseeva , <i>Pirogov Russian National Research Medical University, Russia</i>	533 Effect of surface functionality on Fe ₃ O ₄ nanoparticles toxicity Lyubov Kulyabko , <i>Moscow Aviation Institute, Russia</i>	534 Poster spotlight: WE209, WE210, WE211		
Session Room P	Obesogens and Lipid Disruptors Cinta Porte, Filipe Castro, Miguel Santos, Carlos Barata				
	538 Lipidomics profiling of wild fish to identify patterns associated with pollution exposure Cinta Porte , <i>IDAEA-CSIC, Spain</i>	539 Lipidomics profiles distinguish fish from organochlorine pesticide contaminated lakes compared to control lakes Nancy Denslow , <i>University of Florida, USA</i>	540 Poster spotlight: WE027, WE028, WE029		
★	...and the Hazard They May Represent (II) Annegaike Leopold, Thomas-Benjamin Seiler, Charmaine Ajao				
Session Room Q	2:30 p.m.	2:40 p.m.	2:50 p.m.	3:00 p.m.	3:25p.m.
	545 Lost in translation: Do we communicate the risks of (micro) plastics in the right way? Martin Wagner , <i>Norwegian University of Science and Technology, Norway</i>	546 Ocean Literacy - changing attitudes and behaviour of society in the face of the problems of the oceans Angel Borja , <i>Azti-Tecnalia, Spain</i>	547 Discussion Microplastics	548 General discussion with panel of all speakers about topics emerging from the session	549 Wrap-up and closing Annegaike Leopold

COFFEE BREAK

COFFEE BREAK

COFFEE BREAK

WE | Wednesday Poster Presentations

Schedule

Setup	7:30 a.m.–08:30 a.m.
Poster Viewing	10:05 a.m.–10:50 a.m.
Poster Viewing	12:25 p.m.–1:55 p.m.
Poster Viewing	3:30 p.m.–4:15 p.m.
Poster Social	5:15 p.m.–6:15 p.m.
Take Down	6:15 p.m.–6:45 p.m.

Poster Corners

Epigenetic and evolutionary toxicology: From mechanisms to risk assessment (PC) | Benjamin Pina, Jana Asselman, Marie-Agnes Coutellec

Discussion at 5:15 p.m.–5:45 p.m.

WEPC01 | Does pre-exposure to bisphenol A affect the susceptibility of breeding zebrafish upon re-exposure? | Hannah Littler, University of Exeter, UK

WEPC02 | Zebrafish as a model to assess transgenerational effects of environmental stress via epigenetic inheritance | Jorke Kamstra, NMBU, Norway

WEPC03 | Can changes in DNA methylation be linked to exposure of plants to radiation over multiple generations? | Nele Horemans, Belgian Nuclear Research Centre (SCK-CEN), Belgium

WEPC04 | Evolutionary toxicology: Tools to understand impacts of past, present and future environmental contamination | Sarah Crawford, RWTH Aachen University, Germany

WEPC05 | Chemical and physical stressors shape the population genetic structure of aquatic invertebrate populations | Pedro Inostroza, University of Gothenburg, Sweden

WEPC06 | Histone methylation as exposure biomarker of environmental chemicals | Nivedita Chatterjee, University of Seoul, South Korea

What's your take on communication?

Don't Panic! Reports on how to accurately communicating science and risk (PC) | Thomas-Benjamin Seiler, Samuel Thompson, Leonie Nuesser, Silke Bollmohr

Discussion at 5:45 p.m.–6:15 p.m.

WEPC07 | Dangerous misconceptions – Consumers need help! | Ursula Klaschka, University of Applied Sciences, Germany

WEPC08 | The European Union Observatory for Nanomaterials (EUON): A new platform for communicating information on the safety of nanomaterials | Abdelqader Sumrein, European Chemicals Agency (ECHA), Finland

WEPC09 | Roadmap for the unknown | Marlea Wagelmans, Bioclear earth, Netherlands

WEPC10 | EVOKED: Enhancing the value of climate data – translating risk and uncertainty utilizing a Living Labs approach | Amy Oen, Norwegian Geotechnical Inst., Norway

WEPC11 | Communicating monetary values of environmental impacts – case studies related to ISO DIS 14008 | Tomas Rydberg, IVL Swedish Environmental Research Institute, Sweden

WEPC12 | Full STEAM Ahead: Merging Science and Communications to Investigate Environmental Questions | Gretchen Bielmyer-Fraser, Jacksonville University, USA

WEPC13 | Let's go visual, a picture is worth a thousand words: How to explain Emerging Contaminants using animations | Natalia Ospina-Alvarez, University of Potsdam, Germany

WEPC14 | Improving transparency, consistency and efficiency of ecotoxicological teaching: development of an open online textbook Environmental Toxicology | Cornelis A M van Gestel, Vrije Universiteit Amsterdam, Netherlands

WEPC15 | Policy learning through professional forums in the field of environmental toxicology: What role for the Society of Environmental Toxicology and Chemicals (SETAC)? | Matthieu Mondou, McGill University – Macdonald Campus, Canada



WEPC16 | SETAC Science and Risk Communication Interest Group | Thomas-Benjamin Seiler, RWTH Aachen University, Germany

Thinking green and circularly about microparticles, nanomaterials and composite materials: Approaches for recovery, recycling and reuse (PC) | Iseult Lynch, Alistair Boxall

Discussion at 5:15 p.m.–5:45 p.m.

WEPC17 | Biochar-mortar composites for construction materials | Tae-Cheol Seo, University of Ulsan, South Korea

WEPC18 | Complex Formation Trends of Ligand Binding toward In(III) and Ge(IV) | Gerrit Schuurmann, Helmholtz centre for environmental research – UFZ, Germany

WEPC19 | Cellulose Nanofibers as building blocks for innovative materials for remediation | Andrea Fiorati, INSTM local unit @ Politecnico di Milano, Italy

WEPC20 | Zn-Al layered double hydroxides: A promising eco-friendly engineered nanomaterial | Roberto Martins, Department of Biology, University of Aveiro, Portugal

WEPC21 | Studying microfibre release from textiles towards improved clothing design | Andy Booth, SINTEF Ocean, Norway

WEPC22 | Exploring a Potential Nanofertilizer: Effects of Silica Nanoparticles on Alfalfa (Medicago sativa) | Fabienne Schwab, Adolphe Merkle Institute, Switzerland

LCA and beyond – Integrating sustainability and/or other dimensions to improve decision support (PC) | Serenella Sala, Roland Hischier, Yan Dong

Discussion at 5:45 p.m.–6:15 p.m.

WEPC23 | Environmental Footprint for pasta production – the PEF pasta pilot | Luca Ruini, Barilla G.e.R. Fratelli Societa per Azioni, Italy

WEPC25 | Life Cycle Assessment of applying Algal Oil in salmon aquaculture, challenges for methodology and tool development | Henk Bosch, DSM Nutritional Products, Switzerland

WEPC26 | Balancing Environmental and Health Impacts of Food Production and Consumption | Christie Walker, Institute of Environmental Engineering, ETH Zurich, Switzerland

WEPC27 | What not to waste? Improving decision support for Food Loss and Waste (FLW) mitigation by considering food security and environmental sustainability | Filippo Sessa, Quantis, Switzerland

WEPC28 | ARIADNA Project. Analysing the sustainability of implementing a mandatory Deposit-Refund System in Spain | Alba Bala, UNESCO Chair in Life Cycle and Climate Change (ESCI-UPF), Spain

Poster Sessions

Prioritisation and Intelligent Testing of Pharmaceuticals in the Environment (P) | Beate Escher, Ines Rönnefahrt, Anja Coors, Rik Oldenkamp

WE001 | Development of a modelling framework for estimating the sorption of pharmaceuticals in soils | Alistair Boxall, University of York, UK

WE002 | Photochemical transformation and intermediate formation processes in surface waters, in the context of climate change | Davide Vione, University of Torino, Italy

WE003 | How Pharmaceutical Industrial waste can make your medicines ineffective | Nitin Verma, Baddi University of Emerging Sciences & Technology, India

WE004 | The environmental concentration and evaluation of active ingredients in pharmaceuticals in rivers flowing through urban area in Japan | Tetsuji Nishimura, Teikyo Heisei University, Japan

WE005 | Evaluation of simple exposure models used for environmental prioritisation of active pharmaceutical ingredients | John Wilkinson, The University of York, UK

WE006 | The role of the water-sediment simulation test and its outcome in the environmental risk assessment (ERA) of pharmaceuticals | Daniela Gildemeister, Umweltbundesamt / German Environment Agency, Germany

WE007 | Expert System to Inform BCF Testing Strategies for Pharmaceuticals | Annika Agatz, IBACON GmbH, Germany

WE008 | Development of a quantitative Adverse Outcome Pathway-informed model to predict the risk posed by mixtures of non-steroidal anti-inflammatory drugs to fish | Philip Marmon, Brunel University London, UK

WE009 | Evolution in the lab – How can we study the chronic exposure to pharmaceuticals over multiple generations? | Katharina Heye, Goethe University Frankfurt/ Main, Germany

WE010 | Effects of duloxetine and econazole on freshwater species towards individual and combined conditions | Georgiana Amariei, Universidad de Alcala, Spain

WE011 | Application of newly developed in vitro assay to detect physiological activities of antidepressants in wastewater | Masaru Ihara, Kyoto University, Japan

WE012 | Toxicology of pharmaceuticals to aquatic organisms: A meta-analysis of effects on development and reproduction | Vanessa Fonseca, MARE Marine and Environmental Sciences Centre, Portugal

WE013 | Leveraging Pharmacological Data for Prioritization of the Ecological Risks of Chiral Pharmaceuticals | Edmond Sanganyado, Shantou University, China

WE014 | Effects of benzoylecgonine exposure at different levels of the biological hierarchy on Daphnia magna | Beatrice De Felice, Università degli Studi di Milano, Italy

WE015 | Impact of the antidiabetic drug metformin and its transformation product guanlylurea on brown trout (Salmo trutta f. fario) | Stefanie Jacob, Universität Tübingen, Germany

WE016 | Effect of life-cycle exposure to environmentally relevant concentrations of metformin and its metabolite guanlylurea on F1 progeny 28 days post hatch | Zacharias Pandelides, University of Ontario Institute of Technology, Canada

WE017 | Life-cycle effects in Oryzias latipes exposed to environmentally relevant concentrations of metformin and its metabolite, guanlylurea | Erin Ussery, University of Ontario Institute of Technology, Canada

WE | Wednesday Poster Presentations

WE018 | Environmental Fate and Effects of the Antidiabetic Drug Metformin and Its Transformation Product Guanylurea | **Joan Tell**, Merck & Company, Inc., USA

WE019 | Fluoxetine exposure modulated antioxidant and anxiety-related gene expression altering swimming activity in zebrafish embryos | **Beatrice De Felice**, Università degli Studi di Milano, Italy

WE020 | Bio-Optical probing of Bezafibrate toxicity in model marine diatom *Phaeodactylum tricornutum* | **Vanessa Fonseca**, MARE Marine and Environmental Sciences Centre, Portugal

WE021 | Environmental Risk Assessment for the Active Pharmaceutical Ingredient Mycophenolic Acid in European Surface Waters | **Jürg Oliver Straub**, F.Hoffmann-La Roche Ltd, Switzerland

WE022 | Cytostatics in Dutch surface water – overview of use and potential risks to the aquatic environment | **Marino Marinkovic**, National Institute for Public Health and the Environment (RIVM), Netherlands

WE023 | Environmental risk assessment of human pharmaceuticals – What can we learn from regulatory effect data so far? | **Jean Bachmann**, German Environment Agency (UBA), Germany

WE024 | Prioritisation of human pharmaceutical substances – A regulatory perspective | **Ines Rönnefahrt**, German Environment Agency – UBA, Germany

IG **WE025** | SETAC Pharmaceuticals Interest Group | **Gerd Maack**, German Environment Agency, Germany

WE026 | What makes a chemical substance a 'natural substance'? A case study in the context of the EU veterinary medicines marketing authorisation procedure | **Susanne Schwonbeck**, Fraunhofer Institute Toxicology and Experimental Medicine, Germany

Obesogens and lipid disruptors (P) | **Cinta Porte, Filipe Castro, Miguel Santos, Carlos Barata**

WE027 | Unraveling distinct pathways of PFOS toxicity by combining morphological, metabolomic and transcriptomic analyses | **Rubén Francisco López**, Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain

WE028 | Impacts of fatty acids and methylmercury on preadipocyte differentiation in rainbow trout (*Oncorhynchus mykiss*) | **Gilles Tinant**, Université Catholique de Louvain, Belgium

WE029 | Obesogens in the aquatic environment | **Filipe Castro**, CIIMAR – University of Porto, Portugal

WE030 | The Environmental Causes of Obesity: Novel human in vitro models of adipocyte differentiation for studying the effects of chemical exposure | **Juliette Legler**, Utrecht University, Netherlands

WE031 | Comparing metabolomic responses in *Oryzias latipes* to environmentally relevant concentrations of metformin and its metabolite, guanylurea | **Erin Ussery**, University of Ontario Institute of Technology, Canada

WE032 | Levels of proteins, carbohydrates, lipids and cholesterol in the digestive gland of juvenile catarina clam *Argopecten ventricosus* (Sowerby, 1842), exposed to toxic metals | **Alma Sobrino-Figueroa**, Universidad Autónoma Metropolitana Iztapalapa, Mexico

Environmental risk assessment and management of the spoil material produced in tunnelling excavation (P) | **Anna Barra Caracciolo, Paola Grenni, Luisa Patrolecco, Antonello Martino**

WE033 | Environmental assessment of foaming agent persistence in conditioned soil for EPB-TBM tunnelling | **Paola Grenni**, National Research Council of Italy (CNR), Italy

WE034 | Application of the *Vibrio fischeri* acute toxicity test to assess the environmental impact of spoil materials containing foaming agents | **Livia Mariani**, CNR-IRSA, Italy

WE035 | Biodegradability of the anionic surfactant sodium lauryl ether sulphate used as the main component in two foaming agents for tunnelling process | **Martina Cardoni**, National Research Council of Italy, Italy

WE036 | Development of new foaming agents with better environmental impact for EPB soil conditioning – The Polyfoamer ECO line | **Alessandro Boscaro**, Mapei S.p.A., Italy

WE037 | Determination of anionic surfactants by Pressurized Liquid Extraction (PLE) followed by the modified Methylene Blue Active Substances (MBAS) method in spoil material from excavation processes | **Luisa Patrolecco**, Water Research Institute-National Research Council, Italy

WE038 | Distribution and persistence of anionic surfactants in leachate and conditioned soil: Mesocosm study for EPB-TMB applications | **Luisa Patrolecco**, Water Research Institute-National Research Council, Italy

WE039 | Preliminary environmental risk assessment of sodium lauryl ether sulphate contained in foaming agents used in mechanized tunnelling | **Antonio Finizio**, University Milano – Bicocca, Italy

WE040 | Ecotoxicological assessment of spoil material produced in mechanized excavation | **Ines Lacchetti**, Istituto Superiore di Sanità, Italy

WE041 | Expeditious test for on-site monitoring activity in mechanized tunnelling applications | **Diego Sebastiani**, Università La Sapienza, Italy

WE042 | Toxicity of several additives used in mechanized tunneling: Effects on daphnids, algae and cress | **Diego Baderna**, Istituto di Ricerche Farmacologiche Mario Negri, Italy

PBT/vPvB & PMT/vPvM substances and Non-extractable residues (NER): Scientific strategies, Analytical challenges and Regulatory Issues (P) | **Stefan Hahn, Andreas Schaeffer, Michael Neumann**

WE043 | Bioaccumulation, tissue distribution, and trophic magnification of organic ultraviolet absorbers in freshwater ecosystem in the Pearl River catchment, China | **Xianzhi Peng**, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, China

WE044 | *Hyalella azteca* as non-vertebrate alternative species for bioaccumulation studies | **Maïke Habekost**, BASF Corporation, Germany

WE045 | Bioaccumulation of ionizable organic chemicals in fish – The quest for reliable predictors | **Fabio Polesel**, Technical University of Denmark (DTU), Denmark

WE046 | Evaluation of a tiered approach for the bioaccumulation assessment of fragrance substances: In silico, in vitro assays, invertebrate vs. in vivo fish bioconcentration test | **Sylvia Gimeno**, Firmenich, Belgium

WE047 | Proposal for a freshwater trophic magnification study based on a comprehensive literature evaluation | **Verena Kosfeld**, Fraunhofer Institute for Molecular Biology and Applied Ecology IME, Germany

WE048 | Obstacles in identifying PBT/vPvB-substances under REACH for high tonnage chemicals | **Angelika Oertel**, German Federal Institute for Risk Assessment, Germany

WE049 | PBT/vPvBs: All equally bad or some worse than others? – How to inform risk management | **Karen Thiele**, WUR, Netherlands

WE050 | Modelling Persistent & Mobile Organic Compounds using an updated Multimedia Urban Model: A Toronto Case Study with Organophosphate Esters (OPEs) | **Miriam Diamond**, University of Toronto, Canada

WE051 | An approach for the evaluation of PBT and vPvB substances subject to authorisation and restriction procedures in the context of socio-economic analysis | **Silke Gerda Margaret Gabbert**, Wageningen University, Netherlands

WE052 | Polymers: The Next Frontier in Environmental Hazard Assessment | **Andrea Carrao**, Kao, USA

WE053 | A consistent Approach for PBT/vPvB Assessment for Pharmaceutical Products | **Erick Nfon**, Smithers Viscient, UK

WE054 | Evaluation of new assessment methods and enhancement of PBT/vPvB criteria for ionisable substances | **Hannah Holzmann**, RWTH Aachen University, Germany

WE055 | Assessment of the persistence of ionic or ionisable organic chemicals under REACH | **Daniela Classen**, RWTH Aachen University, Germany

WE056 | Interaction of sulfonamide with soil humic acid: ESR investigations with nitroxide spin label | **Michael Matthies**, University of Osnabrueck, Germany

WE057 | The role of non-extractable residues in the environmental risk assessment from regulatory perspective – requirements and challenges | **Astrid Wiemann**, UBA Umweltbundesamt, Germany

WE058 | Sorption properties of Ionic organic chemicals: Correlations between ion exchange chromatography retention factors and environmental sorption coefficients | **Satoshi Endo**, Osaka City University, Japan

WE059 | Simulation of the fate of co-labeled 13C3-15N-glyphosate in a water-sediment system and formation of biogenic non-extractable residues | **Andreas Libonati Brock**, DTU Environment, Denmark

WE060 | Determination of persistent organic pollutants (POPs) in soil from sites adjacent to landfills: different provinces of the Republic of Armenia | **Anahit Aleksandryan**, Hazardous Substances & Waste Policy Division, Armenia

WE061 | Improving the interpretation of Non-Extractable Residues (NER) in degradation assessment | **Andreas Schaeffer**, RWTH Aachen University, Germany

WE062 | Photodegradation of Atrazine in the Presence of Indole-3-acetic Acid and Natural Montmorillonite Clay Minerals | **Cheng Gu**, Nanjing University, China

WE063 | Photodegradation Half-lives of a Fragrance Ingredient in Natural Waters at Depth Calculated from Laboratory Study Results | **Jianming Lin**, Firmenich Inc, USA

WE064 | The Photolytic Fate of Fungicides | **Jennifer Apell**, MIT, USA

WE065 | Study Design Considerations for E-Fate Testing of UVCB Substances | **Chris Lowrie**, Charles River, UK

WE066 | In silico investigation of the triplet-sensitised phototransformation of phenols induced by chromophoric dissolved organic matter | **Lucrezia Motta**, University of Insubria, Italy

WE067 | In silico Tools to Assess the Confidence of QSAR Model Predictions | **Ralph Kühne**, Helmholtz centre for environmental research – UFZ, Germany

WE068 | Data Gap filling with ECOSAR in K-REACH compliance, a limitation and weakness | **Jin-Sung Ra**, Korea Institute of Industrial Technology, South Korea

WE | Wednesday Poster Presentations

WE069 | Innovative analytical method to enhance POPs and emerging pollutants extraction in water samples by micelles using GC-MS/MS | **Stefania Giannarelli**, *University of Pisa, Italy*

WE070 | Water Treatment – A Regulatory Challenge under Regulation (EC) No 1107/2009 | **Frauke Schnitzler**, *DR. KNOELL CONSULT GmbH, Germany*

WE071 | The identification of persistent, mobile, toxic (PMT) chemicals as SVHC based on their equivalent level of concern to persistent, bioaccumulative, toxic chemicals defined in Article 57(f) of REACH | **Hans Peter Arp**, *NGI, Norway*

WE072 | How many vPvM/PMT substances have been registered under REACH? – vPvM/PMT screening by using the Danish QSAR database | **Rikke Holmberg**, *Danish EPA, Denmark*

WE073 | Identifying PMT substances amongst REACH registered substances | **Hans Peter Arp**, *NGI, Norway*

WE074 | Recent Advances in Toxicology, Safer-Alternatives Assessment, Value-in-Use and Best Practice Guidance of Short-Chain Fluorotelomer-based Products for AFFF, Textiles and Other End-Uses | **Stephen Korzeniowski**, *BeachEdge Consulting, USA*

WE075 | LIFE project PHOENIX: A new project for the management of water pollution from short chain perfluoroalkyl acids in Veneto region (Italy) | **Stefano Polesello**, *Water Research Institute – CNR, Italy*

WE076 | Ecotoxicological characterization of aquifers at Junin Formation and Pampeano from Hydrogeological Sub-Region II, Buenos Aires Argentina | **Walter Di Marzio**, *CONICET- PRIET UNLU, Argentina*

WE077 | Chemical analysis, monitoring and toxicological evaluation of very polar compounds in drinking water and drinking water sources | **Rosa Sjerps**, *KWR Watercycle Research Institute, Netherlands*

WE078 | Beyond DEHP: High-molecular-weight phthalates and non-phthalate plasticizers in German Rivers | **Regine Nagorka**, *Federal Environment Agency (UBA), Germany*

Wastewater effluents: How research can improve risk assessment and regulation (P)
| **Dean Leverett**, **Mirco Bundschuh**

WE079 | Acute and chronic toxicity of Direct Blue 15 on microalgae and cladocerans: A comparative study | **Felipe Fernando Martínez-Jerónimo**, *Escuela Nacional de Ciencias Biológicas-I.P.N., Mexico*

WE080 | Integrated biomarker response calculation as a useful tool to assess the impact of effluents on the health status of fish | **Sabrina Wilhelm**, *University of Tuebingen, Germany*

WE081 | Application of eco-genotoxicological and microbiological parameters for the assessment of the quality of wastewater industrial reuse | **Silvana Caciolli**, *Italian Institute of Health ISS, Italy*

WE082 | Comparative effects of the azo dye Congo Red on the green microalgae *Ankistrodesmus falcatus* and *Scenedesmus incrasatulus* | **Aldo Chávez-Vargas**, *Instituto Politécnico Nacional. Escuela Nacional de Ciencias Biológicas, Mexico*

WE083 | Effluent ozonation treatment: Effects on adult zebrafish fecundity, behavior and vitellogenesis in a 21 day exposure study | **Johannes Pohl**, *Swedish University of Agricultural Sciences (SLU), Sweden*

WE084 | Toxicity evaluation during secondary effluents treatment by UV/H₂O₂ using *Eruca sativa* and *Artemia salina* | **Jacqueline Malvestiti**, *University of Campinas, Brazil*

WE085 | Hospital effluent induced oxidative stress on *Xenopus laevis* larvae | **Itzayana Pérez-Alvarez**, *Universidad Autonoma del Estado de Mexico, Mexico*

WE086 | An assessment of (anti-)androgenic activity in sludge from a rain spillway basin of the WWTP Aachen Soers as well as in sediments from the catchment area of the recipient water, the river Wurm | **Katja Schröder**, *RWTH Aachen University, Germany*

WE087 | Processes underlying the environmental fate of pharmaceuticals in the Nairobi River Basin “impact zone”: Implication for environmental risk assessment | **Simone Bagnis**, *Plymouth University, UK*

WE088 | Occurrence of pharmaceuticals, metabolites and transformation products from combined sewer overflows in London measured by high resolution targeted, suspect screening and untargeted chemical analysis | **Leon Barron**, *Kings College London, UK*

WE089 | Occurrence, fate and bioactivity of pesticides in wastewater | **Viviane Yargeau**, *McGill University, Canada*

WE090 | Fate of perfluoroalkyl substances within a small stream food web affected by sewage effluent | **Daniel Cerveny**, *University of South Bohemia in Ceske Budejovice, Czech Republic*

WE091 | Patterns of natural and human-made interacting processes on source, transport and fate of trace metals in the Adriatic Sea basin | **Tatiane Combi**, *Instituto Oceanográfico da Universidade de São Paulo, Brazil*

WE092 | Photocatalysis as a potential pre-treatment process to reduce organic pesticide entries | **Simon Lüderwald**, *University Koblenz-Landau, Germany*

WE093 | Study of the efficiency of removal of organic load and generation of energy through a bioelectrochemical system coupled to a constructed wetland | **Jorge Antonio Cardenas**, *Centro de Investigación y Desarrollo Tecnológico en Electroquímica, Mexico*

WE094 | Adsorption of Crystal Violet from Quaternary Basic Dye Mixture onto A Sawdust-Based Adsorbent | **Abdur-Rahim Giwa**, *Cape Peninsula University of Technology, Nigeria*

WE095 | Diurnal patterns and removal of selected elements in two Norwegian wastewater treatment plants with primary treatment | **Andy Booth**, *SINTEF Ocean, Norway*

WE096 | Rapid detection of *E. coli* in wastewater effluent and impact of effluent discharge on riparian invertebrate diversity | **Portia Mosolloane**, *University of the Free State, South Africa*

WE097 | The DemO3AC-project: Chemical and ecotoxicological investigations of the wastewater treatment plant Aachen | **Sabrina Schiwy**, *Institute of Environmental Research – RWTH Aachen, Germany*

WE098 | To use or not to use: Sewage overflow dredgings | **Marlea Wagelmans**, *Bioclear earth, Netherlands*

WE099 | Assessing wastewater processes at oil refinery industry in Kazakhstan | **Ivan Radelyuk**, *Lund University, Sweden*

Antibiotics and Antibiotic Resistance in the Environment: Fate and Ecological Effects, Resistance Development and Implications for Human Health (P) | **Edward Topp**, **Jason Snape**, **Kristian Brandt**

WE100 | Accumulation of Enrofloxacin in the sea lettuce *Ulva lactuca* | **Sara Leston**, *CFE-Center For Functional Ecology, Portugal*

WE101 | Antibiotic resistance genes in manure, stored manure and soil after manure application | **Marko Virta**, *University of Helsinki, Finland*

WE102 | Bioaccumulation, biochemical responses and gene expression in the marine clam *Scrobicularia plana* exposed to a pharmaceutical mixture at sub-lethal concentrations | **Julian Blasco Moreno**, *CSIC Spanish National Research Council ICMAN, Spain*

WE103 | Changes in the environmental risk of veterinary antibiotics after the introduction of antibiotics-reducing policies | **Dong Soo Lee**, *Seoul National University, South Korea*

WE104 | Development of microplate based assay and its application to establish differences in cyanobacteria sensitivity to antibiotics | **Gareth Le Page**, *University of Exeter, UK*

WE105 | Direct and indirect effects of antibiotics in the leaf-shredding macroinvertebrate *Gammarus fossarum* | **Marco Kanschak**, *University Koblenz-Landau, Germany*

WE106 | Efficacy of removal antimicrobial resistance genes during avian manure composting process | **Matilde Carballo**, *INIA – National Institute for Agricultural and Food Research and Technology, Spain*

WE107 | Environmental Assessment Of Multi-Class Pharmaceutical Residues In the Tejo Estuary | **Sara Leston**, *CFE-Center For Functional Ecology, Portugal*

WE108 | Environmental risk of enrofloxacin used in aviculture | **Matilde Carballo**, *INIA – National Institute for Agricultural and Food Research and Technology, Spain*

WE109 | Evaluating the use of veterinary antibiotics in dairy environments to inform on antimicrobial resistance spread and development | **Thomas Dodsworth**, *The University of Nottingham, UK*

WE110 | How do marine and freshwater cyanobacteria react to long term exposure of antibiotics? Is there a potential for increasing antibiotic resistance in the environment? | **Jens Heseding**, *Hamburg University of Applied Sciences, Germany*

WE111 | Impact of antibiotics on the feeding rate of the freshwater shrimp *Gammarus pulex* | **Giulia Consolandi**, *University of Portsmouth, UK*

WE112 | Persistence of the sulfamethoxazole antibiotic in a digestate-amended agricultural soil | **Jasmin Rauseo**, *National Research Council, Italy*

WE113 | Pollution in the Mooi River: Fluconazole and fluconazole resistant pathogenic yeasts species | **Mzimkhulu Monapathi**, *North West University (Potchefstroom Campus), South Africa*

WE114 | Reactivity, mobility and degradation of the antibiotic Sulfamethoxazole and its impact on the microbial communities of an agricultural soil amended with organic waste products | **Jean Martins**, *CNRS IGE UMR 5001, Univ. Grenoble, France*

WE115 | Risk assessment of antibiotic resistance and related genes in human impacted environments | **Marko Virta**, *University of Helsinki, Finland*

WE116 | Risk of antibiotics in the environment | **Daniel João Silva Tavares Duarte**, *Radboud University, Netherlands*

WE117 | Sulfamethoxazole degradation in river water microcosms and effect on the natural microbial community | **Jasmin Rauseo**, *National Research Council, Italy*

WE118 | The effect of antibiotics on representatives of aquatic algal and plant species | **Bakhyt Aubakirova**, *L.N. Gamilyov Eurasian National University, Kazakhstan*

WE119 | The Presence of Human and Veterinary Antibiotics in Urban and Rural Streams of North Carolina | **Austin Gray**, *University of North Carolina at Greensboro, USA*

WE120 | The Role of Water Quality Analysis: Understanding our process environment to inform on AMR | **Thomas Dodsworth**, *The University of Nottingham, UK*

WE121 | Safety and efficiency assessment of antibiotic administration by magnetic nanoparticles in Zebrafish | **Giulia Chemello**, *Università Politecnica delle Marche, Italy*

WE | Wednesday Poster Presentations

Analysis and Fate of Emerging Contaminants in soils, water and plants under water scarcity (P) | Damia Barcelo, Yolanda Pico

WE122 | Identifying and Controlling Sources of Ultra-Trace Metals in Control Blanks and Ensuring High-Quality Data for Sensitive Environmental Risk-Based Decisions | **Rock Vitale**, *Environmental Standards, USA*

WE123 | Comprehensive Analysis of Elemental Contamination in Environmental Samples utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS) | **Simon Nelms**, *Thermo Fisher Scientific, UK*

WE125 | Analytical method for determination of Fullerene (C60) nanoparticles in seawater samples | **Lia Gracy Diniz**, *Universidade Estadual do Maranhão, Brazil*

WE126 | Screening of per- and polyfluoroalkyl substances (PFASs) and total organic fluorine in wastewater effluent from Nordic countries | **Fangfang Chen**, *MTM Research Centre, Orebro University, Sweden*

WE127 | Quantitative evaluation of lag effect in polar organic chemical integrative sampler (POCIS) and modified POCIS with polytetrafluoroethylene (PTFE) membranes | **Yoonah Jeong**, *KIST Europe, Germany*

WE128 | Occurrence and Ecological Risk Assessment of Several Endocrine Disrupting Chemicals in Urban River Water and Sediment of South China | **Cong Huang**, *Jinan University, China*

WE129 | Occurrence, distribution and fate of pharmaceuticals as chemical markers of contamination from urban sources in the vulnerable area of the Ebro Delta (Spain) | **Mira Celic**, *Catalan Institute for Water Research ICRA, Spain*

WE130 | Occurrence of pharmaceuticals and personal care products, and their associated environmental risks in a large shallow lake in north China | **Huaidong Zhou**, *China Institute of Water Resources and Hydropower Research IWHR, China*

WE131 | Occurrence of perfluorinated compounds in air, water, soil, sediment, and fishes from the Asan Lake region, South Korea | **Ji-Young Lee**, *Seoul National University, South Korea*

WE132 | Seasonal changes in water and sediments' microplastics in a Mexican estuary (Tecolutla) | **Patricia Ramirez Romero**, *U.A.M. Iztapalapa, Mexico*

WE133 | Simultaneous biodegradation of water treatment additives: Transformation and byproduct formation, impact of biocide shock dosing and salinity | **John Parsons**, *University of Amsterdam, Netherlands*

WE134 | Fate of organic micropollutants in a small river: Hydrological and chemical processes | **Clarissa Glaser**, *Center for Applied Geosciences, Germany*

WE135 | Occurrence of pharmaceuticals at extremely high concentrations in surface waters in Nigeria | **Olatayo Ogunbanwo**, *University of Leeds, UK*

WE136 | Assessment of emerging contaminants in the L'Albufera Natural Park (Valencia, Spain) | **Maria Jesús Andrés Costa**, *Universitat de Valencia, Spain*

WE137 | Effects of urbanization process on water quality of rivers on the Santa Catarina Island, Brazil | **Maria Flavia Barbosa Xavier**, *Universidade Federal de Santa Catarina, Brazil*

WE138 | Presence of emerging contaminants in sewage sludge and assessment of their environmental risk for the Albufera National Park, Valencia, Spain | **Yolanda Pico**, *University of Valencia, Spain*

WE139 | Chlorinated Benzenes in fishes from Dongting lake | **Kun Li**, *China Institute of Water Resources and Hydropower Research, China*

WE140 | Occurrence of bisphenol A in Mediterranean mussels (*Mytilus galloprovincialis*) sampled from the north Adriatic coastal waters (Slovenia) | **Vesna Cerkvenik Flajs**, *University of Ljubljana, Veterinary Faculty, Slovenia*

WE141 | Toxicity of non-steroidal anti-inflammatory drug and the behavioural response in juvenile catfish | **Nosakhare Erhunmwunse**, *University of Benin, Nigeria*

WE142 | Reproductive and maternal effects of Tamiflu metabolites in medaka (*Oryzias latipes*) | **Lee Bing Heng**, *Department of Biomedical Science and Environmental Biology, Kaohsiung Medical University, Taiwan*

WE143 | Earthworms (*Eisenia fetida*) response to chronic exposure to triclosan | **Jurate Zaltauskaite**, *Vytautas Magnus University, Lithuania*

WE144 | Predicting the fate of pharmaceuticals during wastewater treatment and crop irrigation with reclaimed wastewater | **Mariano González García**, *UCAM, Spain*

WE145 | Exposure Assessment of Residual Organochlorine Pesticides (OCPs) in Orchard Soils and Fruits in Korea | **ByungJun Park**, *RDA, South Korea*

WE146 | PhytoCOTE project: Assessment of organic and inorganic contamination in vineyard soils | **Manon Pierdet**, *LPTC EPOC UMR5805, France*

WE147 | Analysis and Assessment of Organic Contaminants in Materials Spread on Land in Scotland | **Edward Stutt**, *WCA Environment Limited, UK*

WE148 | Microplastics in Agriculture Soil | **Kristina Olesen**, *Aalborg University, Denmark*

WE149 | Novel Analytical Strategies for Anthropogenic Compounds in Plants: Vegetable Biomonitors for Contaminants in the Environment | **Stefan Bieber**, *Technical University of Munich, Germany*

WE150 | Pharmaceuticals uptake by spinach from seven soils mixed with sewage sludge | **Radka Kodesova**, *Czech University of Life Sciences Prague, Czech Republic*

WE151 | Will spent mushroom substrate application affect the dissipation and plant uptake of phthalate esters? | **Juan Gao**, *Institute of Soil Science, CAS, China*

Plants: Predicting and assessing direct, indirect effects and recovery of plants from chemical stress (P) | Stefania Loutseti, Udo Hommen, Henry Krueger, Gertie Arts

WE152 | Experiences of demonstrating aquatic plant recovery following herbicide exposure using sloped mesocosms | **Frances Pickering**, *Cambridge Environmental Assessments, UK*

WE153 | Impact of plant density on the end points (ER50) determined for crop protection products in Non Target Terrestrial Plants Studies conducted to OECD 227, Vegetative Vigour | **Giovanna Meregalli**, *Dow AgroSciences Italia s.r.l., Italy*

WE154 | Interspecific competition impact on organism responses to chemical stress: an SSD-based approach | **Vincent Baillard**, *LIEC Université de Lorraine, France*

WE155 | How to consider recovery of aquatic plants in risk assessments? | **Udo Hommen**, *Fraunhofer IME, Germany*

WE156 | Rimsulfuron toxicity and recovery in duckweed (*Lemna minor*) | **Megan Opincarne**, *University of Florida, USA*

WE157 | Toxicokinetic/toxicodynamic (TK/TD) modelling - Increasing the realism in risk assessments for aquatic plants | **Simon Heine**, *Bayer Ag, Germany*

WE158 | Assessing soil toxicity of methylparaben using plants and collembola | **Jin Il Kwak**, *Konkuk University, South Korea*

WE159 | Evaluation of phytotoxicity for Bisphenol A with new endpoint, phytoestrogen | **Jin Il Kwak**, *Konkuk University, South Korea*

WE160 | Soil toxicity of DEHP and Nonylphenol on mungbean and rice | **Jin Il Kwak**, *Konkuk University, South Korea*

WE161 | Toxicity of a glyphosate based formulation on phytoplanktonic green microalgae | **María Ríos de Molina**, *Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Argentina*

WE162 | Indicator, indigenous and invasive species: The need of risk-benefit considerations in PPP risk assessment? | **Giovanna Meregalli**, *Dow AgroSciences Italia s.r.l., Italy*

WE163 | Auxinic herbicides: The impact of water plants' root measurements on the risk assessment | **Guido Gonsior**, *Eurofins Agrosience Services Ecotox GmbH, Germany*

WE164 | Testing the emergent macrophyte, *Glyceria maxima* in a water-sediment system: Results of a ring-test with Isoproturon | **Joanna Davies**, *Syngenta, UK*

WE165 | Study of the toxicity effects of Cd, Ni and Zn on macrophytes, antioxidant responses and time for steady-state bioaccumulation under constant metal concentrations exposures | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

WE166 | Physiological responses of *Thlaspi praecox* (Brassicaceae) to Ni hyperaccumulation | **Tomica Mišljenović**, *University of Belgrade, Faculty of Biology, Serbia*

WE167 | Phytoextraction of heavy metals in Cienega of Tamasopo wetland, México, by *Typha latifolia* | **Cynthia Wong**, *Universidad Autonoma de San Luis Potosi, Mexico*

WE168 | Heavy metal removal by aquatic plants | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

WE169 | Toxicity of the binary mixture Cd-Zn on *Lemna gibba* evaluated using morphological and oxidative stress enzyme endpoints | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

WE170 | Increase of tolerance of green algae as a tool in metal bioremediation | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

WE171 | Ecotoxicological assessment of the iron mining waste from Mariana (Brazil) on terrestrial flora using different plant species | **Livia Figueiredo**, *University of São Paulo USP, Brazil*

WE172 | Mitigation of CuO nanoparticles microbial ecotoxicity by plant in an agricultural soil: Plant variety matters | **Jean Martins**, *IGE UMR 5001, France*

WE173 | Use of *Posidonia oceanica* as a potential bioindicator species of metal pollutants: Cellular and molecular responses to mercury exposure | **Ginevra Moltedo**, *ISPRA-Institute for Environmental Protection and Research, Italy*

WE174 | Influence of toluene vapor exposure on plant metabolic changes | **Woojung Kim**, *Gwangju Institute of Science and Technology, South Korea*

WE175 | Influence of soil organic amendments on the phenolic contents in rosemary (*Rosmarinus officinalis* L.) plants | **Paola Grenni**, *National Research Council of Italy (CNR), Italy*

WE176 | Leaf litter originating from trees treated with systemic fungicides - a new exposure pathway for aquatic decomposer detritivore systems | **Kymberly Newton**, *University of Montreal, Canada*

WE177 | SETAC Plants Interest Group | **Stefania Loutseti**, *DuPont De Nemour Hellas S.A., Greece*



WE | Wednesday Poster Presentations

Environmental Risk Assessment in Sediments (P) | Sebastian Höss, Ute Feiler, Daniel Faber, Paul Sibley

WE178 | Benthic invertebrate bioturbation activity determines species specific sensitivity to sediment contamination | Milo de Baat, University of Amsterdam, Netherlands

WE179 | Effect based sediment quality assessment incorporating chemical fingerprinting | Nienke Wieringa, University of Amsterdam/IBED Institute, Netherlands

WE180 | Quantifying the Bioavailability of HOCs associated with Suspended Sediment to Daphnia magna | Xinghui Xia, School of Environment, Beijing Normal University, China

WE181 | Sediment quality assessment in the Netherlands: Link between chemical, toxicological and ecological parameters | Leonie Lautz, Radboud University Nijmegen, Netherlands

WE182 | Integrative approach to assess ecological risks of sediment metallic contamination in Lake Ohrid (Albania) | Laetitia Minguez, LIEC Université de Lorraine, France

WE183 | Active Biomonitoring and DGT Passive Sampling: Holistic Assessment of metal bioavailability in sediments and associated risks | Kristine De Schampelaere, Universiteit Antwerpen, Belgium

WE184 | Bioturbation in contaminated sediments: Effects on exposure, toxicity and biogeochemistry | Timothy Remaili, Griffith University, Australia

WE185 | The diffusive gradients in thin films (DGT) technique predicts toxicity of nickel contaminated sediments to a marine amphipod | Megan Gillmore, CSIRO Land and Water, Australia

WE186 | Identifying key toxicants in sediment samples from urban waterways in Guangzhou, China using an integrated method of TIE and EDA | Jing You, Jinan University, China

WE187 | Water discharges from the city of Lausanne during rainfall in Lake Geneva: Use of a triad approach to assess their influence on sediment quality | M. Carmen Casado-Martinez, Centre Ecotox, Switzerland

WE188 | Ecotoxicological profiling of sediments along the River Wurm by Aachen (North-Rhine-Westphalia, Germany) | Aliaksandra Shuliakovich, Institute for Environmental Research (RWTH Aachen University), Germany

WE189 | Comparing conventional and integrative concepts for sediment classification systems | Sonja Faetsch, Hamburg University of Applied Sciences (HAW), Germany

WE190 | Submarine sewage outfall adversely affects the sediment quality of Santos, Brazil estuary – An acute toxicity study | Amanda dos Santos, Faculdade de Ciências Farmacêuticas – USP, Brazil

WE191 | Swimming in turbid water: Impacts of suspended fine sediments on fish physiology | Marie Lefranc, Hepia, University of Applied Sciences Western Switzerland, Switzerland

WE192 | Assessing the bioavailability of metals in natural sediments by DGT passive sampling and bioaccumulation | Hanne Hetjens, SPHERE, Belgium

WE193 | Ecotoxicological effects of sediments influenced by a municipal wastewater treatment plant – state of a receiving river before implementing an ozonation treatment | Nadine Wilbrand, RWTH Aachen University, Germany

WE194 | Dredging sediment quality evaluation: A comparison of an ecotoxicological classification using an weight-of-evidence approach and a “pass to fail” criteria | Elisa Costa, CNR-ISMAR, Italy

WE195 | Toxicity of sediment-bound lufenuron to aquatic arthropods in laboratory bioassays | Theo C.M. Brock, Alterra, Wageningen University and Research Centre, Netherlands

WE196 | Application of an undisturbed sampling technique for depth related analysis of sediment particles and pore-water in OECD TG 219 sediment test systems | Alexander Dorn, Hochschule Niederrhein, Germany



WE197 | SETAC Sediment Interest Group | Paul Sibley, University of Guelph, Canada

Improving the environmental risk assessment of the aquaculture 'Blue Revolution' (P) | Andreu Rico, Paul van den Brink, Ailbhe Macken, Trevor Telfer

WE198 | Global overview of aquaculture production with a focus on the development and current status of the activity in Portugal | Ana Gonçalves, MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal

WE199 | Characterization of the ontogenetic variation and nutritional composition of Gilthead seabream and European seabass reared in two Portuguese estuaries | Ana Gonçalves, MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal

WE200 | Effects of aquaculture antibiotics on marine biofilms and on the amphipod Gammarus aequicauda | Belen Gonzalez-Gaya, IMDEA Water, Spain

WE201 | Shifts in the diatom assemblage structure and biological traits of marine biofilms exposed to antibiotics used in aquaculture | Belen Gonzalez-Gaya, IMDEA Water, Spain

WE202 | Assessing the oxidizing effects of hydrogen peroxide using flow cytometry as a high throughput method | Adam Lillicrap, NIVA, Norway

WE203 | An updated version of the SEPA BathAuto tool for assessing anti-parasitic chemical treatments in marine fish farms | Jacqui Carnall, Cambridge Environmental Assessments, UK

WE204 | State-of-the-art on the use of models for the ERA of chemicals used in aquaculture | Andreu Rico, IMDEA Water Institute, Spain

WE205 | Effects of an aquaculture parasiticide (diflubenzuron) on non-target shrimp populations: From lab experiments to population-level endpoints | Jannicke Moe, Norwegian Institute for Water Research (NIVA), Norway

WE206 | Contamination and bioaccumulation of heavy metals in the wild and marine farmed milkfish (Chanos chanos) and mullet (Mugil cephalus) and associated health risk along the coasts of Tanzania | Eliezer Mwakalapa, Norwegian University of Life Sciences, Tanzania

WE207 | Potential Toxic and Phototoxic Effects of Benzobicyclon on Crayfish | Emily Vebrosky, Louisiana State University, USA

WE208 | Effects of the isoflavones, genistein and daidzein, on Acetylcholinesterase from head of Solea Senegalensis | Gemma Albendin, Universidad de Cádiz, Spain

Luminescent biomonitoring via bioassays of different complexity – from cells through enzyme reactions to proteins (P) | Nadezhda Kudryasheva, Valentina Kratasyuk, Elizaveta Kolosova, Anna Sachkova

WE209 | Comparison between results of LumiMARA and Microtox tests | Marie-Claire Lot, CEHTRA, France

WE210 | Bioluminescent assays as tools for studying antioxidant activity and toxicity of bioactive compounds | Anna Sachkova, Tomsk Polytechnic University, Russia

WE211 | Effect of low-dose gamma-radiation on luminous marine bacteria Photobacterium Phosphoreum | Alena Petrova, Krasnoyarsk State Agrarian University, Russia

WE212 | Bioluminescent Assay for Toxicological Assessment of Nanomaterials | Valentina Kratasyuk, Siberian Federal University, Russia

WE213 | Delayed chlorophyll fluorescence in biomonitoring of environmental pollution | Yury Grigorev, Siberian Federal University, Russia

WE214 | Chlorophyll fluorescence temperature curve to estimate changes of the photosynthetic apparatus of coniferous trees during the transition to a state of winter dormancy in urban ecosystems | Yury Grigorev, Siberian Federal University, Russia

WE215 | Luminescent microscopy in the bioindication of the Baikal pollution with oil products and polyaromatic hydrocarbons | Michael Saksonov, Irkutsk State University, Russia

WE216 | The correlation between fluorescent properties of water extract from soil and its effect on bioluminescent enzymatic bioassay | Valentina Kratasyuk, Siberian Federal University, Russia

WE217 | The comparison of enzyme systems for soil contamination bioassay | Elizaveta Kolosova, Siberian Federal University, Russia

WE218 | Are changes in bioluminescence kinetics of Photobacterium phosphoreum exposed to low-dose radiation connected with genetic mutations? | Valeriya Guseynova, Siberian Federal University, Russia

LCA and beyond – integrating sustainability and/or other dimensions to improve decision support (P) | Serenella Sala, Roland Hischier, Yan Dong

WE219 | Meet the Framework Regulation and Supply Chain secondary standards in wheat cultivation for sustainable pasta production. An example of broadleaf weed control: Halaloxifen-methyl (Arylex™ active) | Claudia Vaj, Dow AgroSciences Italia s.r.l., Italy

WE220 | Cradle to grave Life Cycle Assessment of Traditional and Vegetative roofs | Makram EL Bachawati, University of Balamand, Lebanon

WE221 | Filling whole building life cycle assessment gaps for conceptual building design | Vaclav Hasik, University of Pittsburgh, USA

WE222 | Prospects for multidimensional assessment of sustainability in urban environments | Sara González-García, University of Santiago de Compostela CIF, Spain

WE223 | Life Cycle Analysis of remediation solutions in railways and surrounding areas | Maria Rosa Riera, Leitat Technological Center, Spain

WE224 | Life Cycle Assessment of Asphalt Mixtures vs Road Pavements | Davide Lo Presti, The University of Nottingham, UK

WE225 | Sustainability assessment of an integrated innovative wastewater and greywater system for an optimal and safe closed water cycle in Mediterranean tourist facilities: DemEAUmed solution | Ariadna Claret, Leitat Technological Center, Spain

WE226 | Integrating Life Cycle Assessment and Risk Assessment to support decision making in the framework of Enhanced Landfill Mining | Giovanna Sauve, KU Leuven Research & Development, Belgium

WE227 | Comparative environmental sustainability analysis of waste-to-energy techniques for municipal solid waste | Ana Ramos, INEGI, Portugal

WE | Wednesday Poster Presentations

WE228 | Life Cycle Assessment of Pharmaceutical Waste Disposal in the UK | **Siti Syuhaida Mohamed Yunus**, *University of York, UK*

WE230 | Streamlined life cycle assessment of emerging batteries in early design phases using CCalC tool | **Claudia Tomasini Montenegro**, *KIT, Karlsruhe Institute for Technology, Germany*

WE232 | Development of Environment Hotspots of Analysis and the consideration of availability to eco-labeling program | **Yoko Kurahara**, *Tokyo City University, Japan*

WE233 | Environmental burden reduction in the FTA framework using network analysis | **Shohei Tokito**, *Kyushu University, Japan*

WE234 | Developing life cycle assessment to fight climate change | **Pietro Goglio**, *Cornfield University, UK*

WE235 | Hybrid fulfilment-importance matrix for assessing socioeconomic impact | **Joan Berzosa**, *Fundació CTM Centre, Spain*

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WE236 | SETAC Sustainability Interest Group | **Deborah Carr**, *Texas Tech University, USA*

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WE237 | SETAC LCA Interest Group (Europe) | **Heinz Stichnothe**, *Thünen Institute, Germany*

WE238 | Life cycle assessment of a thermoplastic starch obtained from mango kernel | **Alexandre Nunes Cardoso**, *Embrapa – Brazilian Agricultural Research Corporation, Brazil*

Environmental monitoring of contaminants using terrestrial ecological biomonitors (P) | **Sofia Augusto, Nuno Ratola, Mira Aničić Urošević**

WE239 | Geostatistically estimating spatial structures of heavy metals and nitrogen accumulation in mosses sampled between 1990 and 2015 throughout Germany | **Stefan Nickel**, *University of Vechta, Germany*

WE240 | Semi-volatile organic contaminants (SVOCs) in pine needles from Iceland | **Nuno Ratola**, *Faculty of Engineering – University of Porto, Portugal*

WE241 | Study of global diffuse pollution levels in remote high mountain areas and their impact on the organisms from these ecosystems | **Raimon Prats**, *Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain*

WE242 | Spatial distribution of mercury and trace metals in epiphytic lichens in Nova Scotia, Canada | **Sara Klapstein**, *Acadia University, Canada*

WE243 | Biological monitoring of environmental quality near a solid waste incinerator in central Lithuania | **Gintare Sujetoviene**, *Vytautas Magnus University, Lithuania*

WE244 | Nothing is what it seems: Levels of PCDD/Fs in the surroundings of a hazardous waste incinerator | **Marta Schuhmacher**, *Rovira i Virgili University, Spain*

WE245 | The use of land snail *Cornu aspersum* as sentinel organism to monitor air pollution | **Lucrezia Sturba**, *University of Siena, Italy*

WE246 | The relationship between lead exposure on dogs and their behavior around Pb mining area, Kabwe, Zambia | **Haruya Toyomaki**, *Hokkaido University, Japan*

WE247 | Monitoring and impact assessment of terrestrial ecosystem using *Eisenia fetida* affected by chemical incidents | **Kyeongnam Kim**, *Kyungpook National University, South Korea*

WE248 | Biochemical and behavioural responses in two endogeic earthworm species exposed to parathion | **Fatima Jouni**, *UAPV/IMBE, France*

WE249 | Cr transport in sweet peppers plants cultivated with vermicomposted tannery wastes | **Maria Rezende**, *Universidade de Sao Paulo, Brazil*

WE250 | Insecticide resistance in the natural enemy *F. auricularia*: Detoxification pathways and sensitivity of acetylcholinesterase to organophosphate insecticide | **Adrien Le Navenant**, *UAPV/IMBE/INRA, France*

WE251 | Bioaccumulation of persistent halogenated organic pollutants in insects: Common alterations to the pollutant pattern for different insects during metamorphosis | **Liu Yu**, *Guangzhou Institute of Geochemistry, China*

WE252 | Glyphosate: toxic or not toxic, this is the question | **Mariaailaria Verderame**, *University Federico II, Italy*

WE253 | Concentration of perfluoroalkyl substances decreases according to the laying order in the yolk of yellow-legged gull eggs | **Cristina Possenti**, *Università degli Studi di Milano, Italy*

WE254 | First assessment of metal concentration in the crab *Goniopsis cruentata* (Latreille, 1803) (Decapoda, Grapsidae) from two Brazilian mangroves areas with different levels of contamination | **Marcela Vedolin**, *University of São Paulo USP, Brazil*

WE255 | Maternal Transfer of persistent halogenated organic pollutants in Watersnakes (*Enhydryn chinensis*) | **Xiao-Jun Luo**, *Guangzhou Institute of Geochemistry, China*

WE256 | Development of a Multi-compound Multi-matrix Method for Analysis of Halogenated Flame Retardants Comprising a Multi-step Cleanup and Use of GC-API-MS/MS and GC-EI-MS | **Annekatriin Dreyer**, *Eurofins GfA GmbH, Germany*

Product benefits and positive outcomes: Valuation and beyond (P) | **Enrico Benetto, Till Bachmann, Katerina Stylianou**

WE257 | A method to calculate carbon handprint | **Tiina Pajula**, *VTT Technical Research Centre of Finland Ltd., Finland*

WE258 | Associating regionalised Life Cycle Assessment (LCA) and economic values of ecosystem goods and services: Impacts of upstream natural land transformations on ecosystem quality | **Atta Ajayebi**, *University of Exeter, UK*

WE259 | Recent advances in natural capital accounting | **Samantha Deacon**, *Ramboll Environment & Health Limited, UK*

WE260 | A Life Cycle Costing and Analysis of a Hybrid-Electric Engine | **Gwendolyn Bailey**, *KU Leuven, Belgium*

WE261 | Developing a National Food Inventory to estimate the Carbon Footprint of the diet of an average Spanish. Future requirements and policy recommendations | **Alba Bala**, *UNESCO Chair in Life Cycle and Climate Change (ESCI-UPF), Spain*

WE262 | Life Cycle Air Emissions External Costs Assessment for comparing Electric and traditional passenger cars | **Pierpaolo Girardi**, *RSE SpA, Italy*

WE263 | Life Cycle Costing: Methodological description and implementation | **Jade Garcia**, *SCORE LCA, France*

WE264 | Pizza: It is dangerously delicious! | **Katerina Stylianou**, *University of Michigan – School of Public Health, USA*

WE265 | The impact of supplemented amino acids in animal feed – a new Life Cycle Assessment approach using the Protein Quality Index as functional unit for comparing protein sources | **Aurelie Wojciechowski**, *Evonik Technology & Infrastructure, Germany*

WE266 | The ISO/DIS 14008 standard: Monetary valuation of environmental impacts and related environmental aspects – Principles, requirements and guidelines – an overview | **Jeanne Serre**, *VERI, France*

WE267 | The safe and sustainable loops framework for assessing residual material flows | **Joris Quik**, *RIVM, Netherlands*

WE268 | Who is being served? Considering the values stakeholders wish to sustain in decision making | **Sabine Apitz**, *SEA Environmental Decisions Ltd, UK*

Salt of the earth – causes, consequences and management of salinization of surface freshwaters, groundwaters and soils (P) | **Ben Kefford, Ralf Bernhard Schäfer, James Lazorchak**

WE269 | Effects of long-term exposure to increased salinity in the amphibian skin bacterium *Erwinia toletana* | **Antonietta Gabriel**, *University of Aveiro, Portugal*

WE270 | Impacts of agriculture brackish effluents in saline ecosystems: When the low salinity cannot be an advantage but an impact | **Jose Alvarez-Rogel**, *Escuela Técnica Superior de Ingeniería Agronómica. Universidad Politécnica de Cartagena, Spain*

WE271 | Context dependent toxicity – do ecological interactions alter the effects of salinity on stream macroinvertebrate communities? | **Ben Kefford**, *University of Canberra, Australia*

WE272 | Challenges in developing a water quality guideline for water hardness | **Sarah Bogart**, *University of Lethbridge, Canada*

WE273 | Prioritization of water quality stressors according to their relative impact on ecological quality of rivers using large-scale field data: Salinity first? | **Elisabeth Berger**, *Senckenberg Gesellschaft, Germany*

WE274 | Estimating protective potassium concentrations for freshwater mussels, a taxon of global conservation concern | **Thomas Augspurger**, *U.S. Fish and Wildlife Service, USA*

WE275 | LIFE LAGOON REFRESH – Coastal lagoon habitat (1150*) and species recovery by restoring the salt gradient increasing fresh water input. Management measures in the northern Venice Lagoon (NE, Italy) | **Federica Cacciatore**, *ISPRA-Institute for Environmental Protection and Research, Italy*

WE276 | Comparing the growth of fescue and clover plants in petroleum industrial effluents and solutions of similar salinity | **Phatchani Srikhumsuk**, *University of Strathclyde, UK*

WE277 | Contribution to the salinization risk assessment, under drought conditions, in the Alqueva irrigation area (South Portugal) | **Patricia Palma**, *Instituto Politécnico de Beja, Portugal*

Systems ecotoxicology: Application of OMICS data across multiple level of biological organization in research and risk assessment (P) | **Anze Zupanec, Bruno Campos, Philipp Antczak, Jana Asselman**

WE279 | Investigating wildlife diets using high-tech DNA sequencing | **Jan-Dieter Ludwigs**, *Rifcon GmbH, Germany*

WE280 | Design of a Real-Time PCR array to analyze the gene expression in *Physella acuta* (Gastropoda) in chemical stress and starvation | **Jose-Luis Martinez-Guitarte**, *UNED, Spain*

WE281 | Effects of temperature on the transcriptome of the marine copepod *Temora longicornis* | **Ilias Semmouri**, *Ghent University (UGent), Belgium*

WE | Wednesday Poster Presentations

WE282 | A traditional approach to modern endpoints – quantitative assessment of stress gene expression response to a range of copper concentrations in the freshwater mussel *Anodonta anatina* | **Gustaf Ekelund Ugge**, *Lund University, Sweden*

WE283 | Validating a contamination assessment tool from lab to the field: *Folsomia candida* exposed to a fungicide-based formulation | **Tiago Simoes**, *Polytechnic Institute of Leiria, Portugal*

WE284 | Proteome response of *Chironomus riparius* under exposure to the neurotoxic insecticides Spinosad and Indoxacarb | **Marco Lemos**, *Instituto Politécnico de Leiria, Portugal*

WE286 | Assessing Cu impacts on freshwater diatoms: Biochemical and metabolomic responses of *Tabellaria flocculosa* (Roth) Kützing | **Sara Gonçalves**, *Universidade de Aveiro, Portugal*

WE287 | Non-targeted approach to identify metabolic perturbations in gilt-head bream liver and brain exposed to benzophenone-3 | **Leire Mijangos**, *University of the Basque Country UPV/EHU, Spain*

WE288 | Effluents from pulp and paper metabolic alterations in liver and gonads of fish | **Maria Flavia Barbosa Xavier**, *Universidade Federal de Santa Catarina, Brazil*

WE289 | Developing biomarkers of sewage effluent exposure in the freshwater amphipod *Gammarus fossarum* | **Domenico Caputo**, *University of Portsmouth, UK*

WE290 | Optimising the algal toxicity test towards generation of multi-omics data and adverse outcome pathway discovery | **Stefan Schade**, *Birmingham University, UK*

WE291 | Elucidating interactive toxic effects of copper and lead on marine mussels: Molecular to physiological consequences | **Charlotte Crowther**, *Plymouth University, UK*

WE292 | The Identification of Toxicological Markers in Adverse Outcome Pathway Discovery in *Chlamydomonas reinhardtii* | **Georgia Reynolds**, *Unilever, UK*

WE293 | Effects of water-borne benzo[a]pyrene on early-life stages of the fathead minnow (*Pimephales promelas*) | **Markus Schmitz**, *RWTH Aachen University, Germany*

IG WE294 | SETAC OMICs Interest Group | **Bruno Campos**, *Unilever R&D, UK*

Epigenetic and evolutionary toxicology: From mechanisms to risk assessment (P) | **Benjamin Pina, Jana Asselman, Marie-Agnes Coutellec**

WE296 | Epigenetic effects in *Daphnia magna* by characterizing quantified abundance of global methylation, gene expression and histone modifications | **Knut Erik Tollefsen**, *NIVA, Norway*

WE297 | Role of microRNAs in the response of the European eel *Anguilla anguilla* to water pollution | **Anthony Bertucci**, *Université de Bordeaux, France*

WE298 | Exposure to copper during embryogenesis caused temporary increased tolerance in two subsequent generations in the three-spined stickleback (*Gasterosteus aculeatus*) | **Hannah Littler**, *University of Exeter, UK*

Emergence and multidimensional interactions of engineered nanoparticles in toxicology (P) | **Sankar Ganesh Palani, Siva Prasad Bitragunta, Samuel Thompson, Richard Cross**

WE299 | Do global warming increase bioaccumulation of copper nanoparticle in tilapia? | **Jin-Liang Kuo**, *Kaohsiung Medical University, Taiwan*

WE300 | Environmental mixtures of nanomaterials and chemicals: Proposal for a consistent nomenclature of mixture effects in environmental organisms | **Dana Kühnel**, *Helmholtz-Centre for Environmental Research, Germany*

WE301 | Investigating the Trojan horse effect of nanoparticles on an aquatic community – An outdoor mesocosm study | **Tido Strauss**, *Research Institute gais, Germany*

WE302 | Nano silver based products and environmental challenges: Toxicity and accumulation in a marine sentinel species | **Giulia Liberatori**, *University of Siena, Italy*

WE303 | Effect of gold nanoparticles on feeding, growth and enzymes activity of amphibians | **Bruno Rafael Rabelo Costa**, *Department of Biology & CESAM – University of Aveiro, Portugal*

WE304 | Interaction of the biocide triclocarban and weathered multiwalled carbon nanotubes (wMWCNT) in freshwater algae: Chronic effects & bioaccumulation | **Irina Politowski**, *RWTH Aachen University, Germany*

WE305 | Comparative assessment of the interactive effects of Carbon-based nanomaterials and Benzo(a)pyrene on zebrafish embryos | **Camilla Della Torre**, *State University of Milano, Italy*

WE306 | In vitro toxicity of model ZnO nanoparticles on hemocytes of mussel *Mytilus galloprovincialis* | **Ioanna Efthimiou**, *University of Patras, Greece*

WE307 | Toxic-transcriptomics as tool to identify nano-specific toxicity profiles | **Anze Zupanec**, *Eawag Swiss Federal Institute of Aquatic Science and Technology, Switzerland*

WE308 | Zinc toxicity to A549 cells and *Daphnia magna* changes after incubation with iron oxide nanoparticles | **Veronica Gonzalez**, *Leitat Technological Center, Spain*

WE309 | Internalization of graphene-related nanomaterials in fish cell lines | **Judit Kalman**, *Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, Spain*

WE310 | Molecular mechanism and physicochemical properties of Cadmium-TiO₂ nanoparticle mixtures when co-exposed to the nematode *Caenorhabditis elegans* | **Lisa Kleene**, *Hamburg University of Applied Sciences (HAW), Germany*

WE311 | Influence of temperature and salinity on toxicity of zinc oxide nanoparticle on the marine copepod *Tigriopus japonicus* | **Weng Seng Lai**, *The University of Hong Kong, Hong Kong*

WE312 | Multigenerational effects of gold nanorods to *Raphidocelis subcapitata* and *Chlorella vulgaris* | **Isabel Lopes**, *University of Aveiro, Portugal*

WE313 | Effects of climate change combined with copper nanoparticle on early development of Japanese medaka (*Oryzias latipes*) embryo | **Ieong Meng Ian**, *Department of Biomedical Science and Environmental Biology, Kaohsiung Medical University, Taiwan*

WE314 | The use of the marine mussels *Mytilus* hemocytes as a model for studying the impact of NPs on innate immunity | **Manon Auguste**, *University of Genova, Italy*

WE315 | Influence of warming and acidification on copper nanoparticle bioaccumulation in medaka (*Oryzias latipes*) embryo | **Yi Min Zhang**, *Department of Biomedical Science and Environmental Biology, Kaohsiung Medical University, Taiwan*

WE316 | Assessing the combined toxicity of metals and metal-oxide nanoparticles in a benthic estuarine microalgae | **Raphael Ogunjemilusi**, *University of Bristol, UK*

WE317 | Comparative toxicity of silver nanocolloids and titanium dioxide nanoparticles using medaka | **Yumie Kato**, *Toyo University, Japan*

WE318 | Genotoxicity assessment of aluminium oxide nanoparticles in relation to *Escherichia coli* and *Aeromonas hydrophila* | **Nina Dosekoc**, *Warsaw University of Technology, Faculty of Building Services, Hydro and Environmental Engineering, Poland*

WE319 | Effects of Copper Oxide Nanoparticles and Arsenic on the Whole-Life Cycle of Rice (*Oryza sativa japonica*) | **George Cobb**, *Baylor University, USA*

WE320 | Behavior of cerium oxide nanoparticles in presence of pharmaceuticals compounds on aquatic specimens | **Georgiana Amariei**, *Universidad de Alcalá, Spain*

WE321 | Toxicity of nanoparticles of titanium dioxide to *Daphnia longispina*: Waterborne versus dietary exposure | **Edith Padilla**, *Institute for Environmental Sciences, Germany*

WE322 | Dynamics of Cu accumulation in charophyte cell compartments after its exposure to nCuO | **Levonas Manusadzianas**, *NatureResearch Centre, Lithuania*

WE323 | Are graphene nanomaterials "Trojan horse" carriers for oil compounds in mussel hemocytes in vitro? | **Miren Cajaraville**, *University of the Basque Country, Spain*

WE324 | Multigenerational effects of titanium dioxide and silver nanoparticles on *Daphnia magna*: Gene expression and morphological changes in the presence or absence of aged nanomaterials | **Laura-Jayne Ellis**, *The University of Birmingham, UK*

Ecological risks under complex, multiple-stressor threat scenarios: Integrating chemical effects with environmental drivers (P) | **Paul van den Brink, Katherine Dafforn, Mirco Bundschuh**

WE325 | Evaluating the contribution of environmental stressors to sediment concentrations of PAHs in the northern Gulf of Mexico | **Laura Basirico**, *Louisiana State University, USA*

WE326 | Microbial resistance to chemical pollution by urban effluents might be triggered by desiccation events | **Ferran Romero**, *ICRA, Catalan Institute for Water Research, Spain*

WE327 | Synergy effects of fluoxetine and variability in temperature lead to proportionally greater fitness costs: A multigenerational test | **Miguel Oliveira**, *University of Aveiro, Portugal*

WE328 | Influence of extreme heat events in the recovery capability of *Mytilus galloprovincialis* exposed to mercury contamination | **Francesca Coppola**, *Department of Biology & CESAM – University of Aveiro, Portugal*

WE329 | Impacts of ocean warming and BDE-209 contamination on the energy budget of juvenile white seabream (*Diplodus sargus*) | **António Marques**, *Portuguese Institute of Sea and Atmosphere IPMA, Portugal*

WE330 | Transgenerational effects of pesticide on vector mosquito *Culex pipiens* under global warming | **Thanh Tam Tran**, *KU Leuven, Belgium*

WE331 | 1+1≠2: Heritage-dependent synergistic development responses in copepods exposed to predator cues and copper | **Torben Lode**, *University of Oslo, Norway*

WE332 | Functional and structural soil-vegetation indicators of ecosystem functioning in metal-contaminated environments: A case study in SE Spain | **Jose Alvarez-Rogel**, *Escuela Técnica Superior de Ingeniería Agronómica, Universidad Politécnica de Cartagena, Spain*

WE333 | Effects of imidacloprid and a neonicotinoid mixture on aquatic invertebrate communities under Mediterranean conditions | **Andreu Rico**, *IMDEA Water Institute, Spain*

WE334 | Multiple stressor effects of ionising (γ) radiation and non-ionising (UV) radiation in duckweed (*Lemma minor*) | **Knut Erik Tollefsen**, *NIVA, Norway*

WE | Wednesday Poster Presentations

- WE335** | Natural organic matter determines the potential of titanium dioxide nanoparticles to mitigate pesticide toxicity in presence of UV light | **Simon Lüderwald**, *University Koblenz-Landau, Germany*
- WE336** | Effects of inorganic sunscreen formulations on the algal symbionts of reef-building corals, *Symbiodinium* spp., and their combined toxicity with ocean warming | **Alice Tagliati**, *Heriot Watt University, UK*
- WE337** | Metallothioneins as an indicator of metal exposure in a naturally mineral enriched aquatic environment | **Hilde Pienaar**, *North-West University – School of Biological Sciences, South Africa*
- WE338** | Mollusks as indicators of environmental pollution (case studies in marine mussel *Mytilus galloprovincialis* Lam. and terrestrial snail *Bradybaena fruticum* Mull.) | **Tatiana Kuznetsova**, *Saint-Petersburg Scientific Research Center for Ecological Safety Russian Academy of Sciences, Russia*
- WE339** | The effect of temperature on toxicity of cypermethrin on *Daphnia magna* | **Paula Kajankari**, *University of Helsinki, Finland*
- WE340** | Pattern oriented food web modelling of metal mesocosm datasets | **Karel Viaene**, *Ghent University, Belgium*
- WE341** | Bioaccumulation and physiological conditions in *Ruditapes philippinarum* from the Vallona lagoon (northern Adriatic Sea, NE Italy): Application of Contaminant/shell weight indices | **Federica Cacciatore**, *ISPRA-Institute for Environmental Protection and Research, Italy*
- WE342** | Biomonitoring of Singapore mangroves using biomarker expression and contaminant burden in caged green mussels, *Perna viridis* | **Stéphane Bayen**, *McGill University, Canada*
- WE343** | Impacts of climate change on mercury bioaccumulation in large ocean predators | **Clifton Dassuncao**, *Harvard University, USA*
- WE344** | Chemical stress on aquatic communities under semi-arid conditions: towards an improved multimetric approach | **Marco Vighi**, *IMDEA Water Institute, Spain*
- WE345** | Long – term effects on transplanted caged – freshwater bivalves *Diplodon chilensis* to the assessment of water quality in a Patagonian river | **María Ríos de Molina**, *Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Argentina*
- WE346** | The influence of selected seasonal and anthropogenic phenomena on a perennial river in South Africa | **Gerhard Van Niekerk**, *North West University (Potchefstroom Campus), South Africa*
- WE347** | Growth, Photosynthetic and Antioxidative Defense System Response of *Hordeum vulgare* to Combined stress of Heat wave and Drought | **Renata Dagiliute**, *Vytautas Magnus University, Lithuania*
- WE348** | Does elevated CO₂ protects plants against heat waves damage? | **Jurate Zaltauskaite**, *Vytautas Magnus University, Lithuania*
- WE349** | Combined effects of increasing temperatures, drought and an insecticide on freshwater zooplankton communities: A microcosm study | **Marco Vighi**, *IMDEA Water Institute, Spain*
- WE350** | Toxicity of phenoxy herbicide: The effects of elevated temperature and CO₂ concentration | **Jurate Zaltauskaite**, *Vytautas Magnus University, Lithuania*
- WE351** | Combined effects of insecticide exposure and predation risk on freshwater detritivores | **Maria Bordalo**, *University of Aveiro, Portugal*
- WE352** | How sugarcane and high temperatures are contributing to amphibian declines in Brazil? Morphological, biochemical and molecular approaches | **Juliane Silberschmidt Freitas**, *University of Sao Paulo – USP, Brazil*
- WE353** | Adaptation vs. acclimation of natural phytoplankton communities towards herbicide exposure | **Simone Rizzuto**, *Lancaster University, UK*
- WE354** | Impacts of climate change on freshwater pesticide exposure | **Tom Sinclair**, *University of Sheffield, UK*
- WE355** | Ranking micropollutants in effluent by exposure indices evaluated via suspect/nontarget screening | **Park Naree**, *Changwon National University, South Korea*
- WE356** | Interspecific effects of temperature shifts on life parameters, oxidative stress, and expression of fatty acid synthesis genes and heat shock protein genes in two congeneric copepods *Tigriopus* sp. | **Jeonghoon Han**, *Sungkyunkwan University, South Korea*
- WE357** | Effects of water browning on zooplankton physiology and fitness driven by food characteristics in a long-term enclosure experiment | **Laetitia Minguez**, *LIEC Université de Lorraine, France*
- WE358** | Interactive effects of multiple stressors on estuarine processes | **Katherine Dafforn**, *Macquarie University, Australia*
- WE359** | Ecology or reproducibility crisis? – Lessons from a laboratory scale tri-trophic test system | **Verena Riedl**, *Environment Department, University of York, UK*
- WE360** | Improving tolerance to natural and chemical stressors by inducing early life stress in the rotifer *Brachionus* sp. Cayman | **Marco Lemos**, *Instituto Politécnico de Leiria, Portugal*
- WE361** | Effects of a mixture of pharmaceuticals in a freshwater model ecosystem | **Viviane David**, *INERIS, France*
- Improving the Quality of Ecotoxicological Testing and Assessment (P)** | **Simon Gutierrez, Lennart Weltje, James R. Wheeler**
- WE362** | Relationships between aquatic toxicity, chemical hydrophobicity and mode of action: Log kow QSARs revisited | **Mace Barron**, *U.S. EPA, USA*
- WE364** | Data-mining: Making use of aquatic lower-tier data for higher-tier risk evaluation of agrochemicals | **Ulrich Memmert**, *Eurofins Regulatory AG, Switzerland*
- WE365** | Comparison of models and tools for derivation of species sensitivity distributions (SSDs) for use in pesticide risk assessment | **Sandrine Charles**, *University Lyon 1, France*
- WE366** | Effects on NTA communities: HCx vs NOEC designs | **Frank Bakker**, *Eurofins-Mitox, Netherlands*
- WE367** | α -Dominance versus β -Prominence | **Frank Bakker**, *Eurofins-Mitox, Netherlands*
- WE368** | Defining simple toxicity values (EC, BMD) is not so simple | **Elise Billoir**, *Université de Lorraine, France*
- WE369** | Calculating the true ECx/LCx for non-linear models | **Zhenglei Gao**, *Bayer AG Crop Science Division, Germany*
- WE370** | Review of Dose-Response Analyses in Regulatory Framework | **Zhenglei Gao**, *Bayer AG Crop Science Division, Germany*
- WE371** | Deriving no effect levels using probabilistic approaches: Application to trichloroethylene (TCE) and potential impacts to risk-based exposure concentrations | **Norman Forsberg**, *Arcadis U.S., Inc., USA*
- WE372** | Aquatic higher-tier exposure testing of pesticides – from complexity to simplicity | **Gero Eck**, *Eurofins Regulatory AG, Germany*
- WE373** | Keeping it real: Multidisciplinary approaches to aquatic risk assessment | **Amy Brooks**, *Cambridge Environmental Assessments, UK*
- WE374** | Critical aspects of higher-tier laboratory exposure testing with different aquatic organisms | **Guido Gonsior**, *Eurofins Agroscience Services Ecotox GmbH, Germany*
- WE375** | Repeated pulsed exposure in a partial life cycle test with zebrafish: Keep it realistic! | **Matthias Teigeler**, *Fraunhofer IME, Germany*
- WE376** | Pulsed exposure of fish at sensitive life stages: The 'worst case' challenge | **Matthias Teigeler**, *Fraunhofer IME, Germany*
- WE377** | TIER2+: Developing the Tools for Future Risk Assessment – New Chronic Invertebrate Test Systems and the Application of Realistic Exposure Scenarios | **Andre Dabrunz**, *Eurofins Agroscience Services Ecotox GmbH, Germany*
- WE378** | Optimisation of a chronic toxicity flow-through set up to investigate the adverse effects of chemicals to *Daphnia magna* | **Corinna Beyer**, *IES Ltd, Switzerland*
- WE379** | Eggs and larval fish test, an alternative method to marine fish exposure: Sensitivity and interest of early life stage | **Julien Bertin**, *SGS Multilab, France*
- WE380** | Lack of Relevance of Normalized Hindlimb Length Measurement in Assessment of Thyroid Disruption in the Amphibian Metamorphosis Assay | **Sascha Pawlowski**, *BASF SE, Germany*
- WE381** | Acute toxicity test using Mediterranean fish species (*Dicentrarchus labrax* L., 1758): Inter calibration exercises towards standardized procedure | **Livia Mariani**, *CNR-IRSA, Italy*
- WE382** | Introduction of a New Dosing System for Chronic Fish Tests Conducted with Difficult Substances | **Stefan Höger**, *Innovative Environmental Services (IES) Ltd, Switzerland*
- WE383** | Difficult Substances as Challenge for the Algal Growth Inhibition Test According to OECD Test Guideline 201 | **Stefan Höger**, *Innovative Environmental Services (IES) Ltd, Switzerland*
- WE384** | Activity based Collembola sampling may improve the data of field studies for regulatory purposes | **Silvio Knaebe**, *EAS Ecotox GmbH, Germany*
- WE385** | New Technology evaluating *Acartia tonsa* as a biological model | **Sizenando Abreu**, *University of Aveiro, Portugal*
- WE386** | Solubility limits of lanthanides in standardized ecotoxicological media | **Davide Vignati**, *CNRS, France*
- WE387** | Improving ecotoxicity tests for trace elements forming poorly soluble chemical species in test media | **Davide Vignati**, *CNRS, France*
- WE388** | Long term ecotoxicity testing of limonene for hazard classification: Not such a lemon after all | **Paul Thomas**, *CEHTRA SAS, France*
- WE389** | Is that an effect? The importance of using all relevant data in mesocosm studies | **Alan Lawrence**, *Cambridge Environmental Assessments, UK*
- WE390** | Evaluation of the environmental risk assessment procedure according to Directive 2001/18/EC for Gene Modified Organism used as medicinal products | **Susanne Schwonbeck**, *Fraunhofer Institute Toxicology and Experimental Medicine, Germany*
- WE391** | PBT evaluation 20 years on: Is it time to reconsider the technical progress made in risk assessment methodology? | **Paul Thomas**, *CEHTRA SAS, France*
- WE392** | UVCB block method for estimating expected mixture toxic pressure of substances of Unknown or Variable composition, Complex reaction products or Biological materials | **Dick De Zwart**, *DdZ Ecotox, Netherlands*
- WE393** | Evaluation of hypopharyngeal glands development in Honeybees (*Apis mellifera* L.) from toxicity studies in the light of current guidelines (EFSA and OECD) | **Natalia Lemańska**, *Institute of Industrial Organic Chemistry, Branch Pszczyna, Poland*
- WE394** | Assessing toxicity to *Daphnia magna* using movement parameters | **Tamara Đerd**, *Department of Biology, University of Osijek, Croatia*

WE | Wednesday Poster Presentations

WE395 | The validation of analytical methods in ecotoxicology | **Michael Faupel**, *Rifcon GmbH, Germany*

WE396 | A new pulsed-exposure early life stage test design for rainbow trout on an insecticide. Refining OECD Guideline 210 to meet the needs of EFSA Aquatic Guidance 2013 | **Christopher Ramsden**, *AgroChemex Environmental Ltd, UK*

Distribution, transformations and biological effects of incidental nanoparticles and nanoplastics in the environment from a more realistic point of view (P) | **Gerardo Pulido-Reyes, Roberto Rosal**

WE397 | Dissolution of Different Silica Nanoparticles in Aqueous Matrices | **Mattia Maceroni**, *Adolphe Merkle Institute, Switzerland*

WE398 | Occurrence of fullerene aggregates in Mediterranean rivers: Two cases of study | **Marinella Farre**, *IDAEA-CSIC, Spain*

WE399 | Occurrence, fate and behaviour of fullerenes in the environment | **Marinella Farre**, *IDAEA-CSIC, Spain*

WE400 | The influence of engineered surface coatings on nanomaterial stability in a complex, natural medium | **Mark Surette**, *Oregon State University, USA*

WE401 | Engineered Nanoparticles interactions in secondary wastewater treatment: Removal kinetic and efficiency during activated sludge stage | **Valerio Cappadona**, *University of Strathclyde, UK*

WE402 | Fate factor of engineered TiO₂ nanoparticles in aquatic and terrestrial natural environments | **Aurélien Schulz**, *University of Strasbourg (UdS), France*

WE403 | Assessing the fate and transport of engineered TiO₂ nanoparticles in sewer pipes through a dynamic multimedia model (SWNano) | **Ki Eun Kim**, *Seoul National University, South Korea*

WE404 | The importance of cell wall of marine microalgae in preventing the toxicity of nanoparticles | **Julian Blasco Moreno**, *CSIC Spanish National Research Council ICMAN, Spain*

WE405 | Environmental screening of structured hybrid nanoporous materials developed for industrial adsorption applications | **Andy Booth**, *SINTEF Ocean, Norway*

WE406 | Tracking Physicochemical Changes of PAHs in the Presence of TiO₂ Nanoparticles by Assessment of Biological Responses | **Lindsey St Mary**, *Heriot-Watt University, UK*

WE407 | Toxicity of TiO₂ nanoparticles to freshwater chironomids – pointing out the relevant endpoints | **Dimitrija Savić Zdravković**, *Faculty of Sciences and Mathematics, University of Niš, Serbia*

WE408 | Multigenerational exposure of the nematode *C. elegans* to Silver Nanoparticles at the expense of oxidative stress defence mechanisms | **Lisa Rossbach**, *Norwegian University of Life Sciences UMB, Norway*

WE409 | Effect of silver nanoparticles layer on soil surface to terrestrial species | **Jin Il Kwak**, *Konkuk University, South Korea*

WE410 | Fragmentation of nano – and microplastics from expanded polystyrene exposed to sunlight | **Wonjoon Shim**, *Korea Institute of Ocean Science and Technology, South Korea*

WE411 | Effects of nano-plastics on natural marine aggregates and their associated microbial communities | **Stephen Summers**, *SCELSSE Nanyang Technological University, Singapore*

WE412 | Tracking nanoplastics in marine bivalves at environmentally realistic concentrations | **Maya al Sid Cheikh**, *University of Plymouth, UK*

WE413 | Plastics: Does size matter? Impact of environmentally relevant nanoplastics identified in the Nordic environment | **Tânia Gomes**, *Norwegian Institute for Water Research (NIVA), Norway*

WE414 | Ecotoxicity of engineered nanomaterials in relation to ecosystem complexity and functioning | **Willie Peijnenburg**, *RIVM, Netherlands*

WE415 | Development of rapid reacting automatic mobile lab responding chemical accident of aquatic environment in Korea | **Hyung Kyung Park**, *Hanyang Univ., South Korea*

WE416 | Trophic Interactions in the Bioaccumulation and Depuration of Silver in Fish from a Lake Dosed with Nanosilver | **Chris Metcalfe**, *Trent University, Canada*

WE417 | Hepatotoxicity of iron oxide (maghemite) nanoparticles in the guppy *Poecilia reticulata* | **Simone Sabóia-Morais**, *Federal University of Goiás, Brazil*

(Eco)toxicity tests for hazard evaluation of recycling materials and waste (P) | **Reinhilde Weltens, Jörg Römbke**

WE418 | Biotests for Hazardous Waste Classification (HP14): Benchmarking Limits for Tolerable Ecotoxicity | **Reinhilde Weltens**, *VITO, Belgium*

WE419 | What is the future for the waste wood in terms of ecotoxicological testing? | **Stéphane Legay**, *FCBA, France*

WE420 | Quality standards for urban waste fertilizers: Putting ecotoxicology in the picture | **Isabel Lopes**, *University of Aveiro, Portugal*

WE421 | Chemical and Ecotoxicological Assessment of Reclaimed Asphalt for their Subsequent Use | **Vilma Jandova**, *Transport Research Centre, Czech Republic*

WE422 | Leaching tests – a useful tool for the environmental impact assessment of construction products | **Nicole Bandow**, *Federal Institute for Materials Research and Testing, Germany*

Advances in monitoring and evaluating remedy effectiveness for in situ amendments in soils and sediments (P) | **Gijs D. Breedveld, Amy Oen**

WE423 | Assessment and management of stormwater on sediment recontamination: You don't need to measure everything, just the right things | **Ilektra Drygiannaki**, *Texas Tech University, USA*

WE424 | Development of active capping materials for oil spill contaminated sediment remediation | **Ludovica Silvani**, *Norwegian Geotechnical Institute, Norway*

WE425 | PCB Tissue Concentrations and Benthic Community Impacts at a Carbon Amendment Pilot Study in the Intertidal and Subtidal Zones of San Francisco Bay | **Christopher McCarthy**, *CH2M, USA*

WE426 | Remediation of mine wastes with biochar: Effect on metal bioavailability to earthworms | **Maria Diez-Ortiz**, *Leitat Technological Center, Spain*

WE427 | Remediation of mine wastes with biochar: Effect on metal bioavailability to *Enchytraeus crypticus* | **Maria Diez-Ortiz**, *Leitat Technological Center, Spain*

WE428 | Bioavailability-based Methods to Assess Remediation Effectiveness | **Jay Gan**, *University of California, Riverside, USA*

WE429 | Identification, Quantification, and Risk Assessment of Polycyclic Aromatic Hydrocarbons and their Polar Derivatives in Soil After Steam Enhanced Extraction | **Lisandra Trine**, *Oregon State University, USA*

WE430 | Enhanced total petroleum hydrocarbon removal without soil disturbance by serial surfactant foam spraying | **Seung-Woo Jeong**, *Kunsan National University, South Korea*

WE431 | Factors affecting sorption of halogenated phenols to polymer/biomass-derived biochar: Effect of pH, hydrophobicity, and deprotonation | **Yong-Deuk Seo**, *University of Ulsan, South Korea*

WE432 | Biochar for soil management: interactions with legacy contaminants and current-use pesticides | **Lucie Bielská**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

WE433 | Preparation and characterization of composites of type clay / polymers and their use in the removal of contaminants organics of aquatic environments | **Leonildes de Jesus Aguiar Vieira**, *Universidade Federal do Maranhão, Brazil*

WE434 | Field sampling and ex-situ bioassays for assessing the ecotoxicological risk of trace elements in different rehabilitated bauxite residues | **Elisa Di Carlo**, *University of Limerick, Ireland*

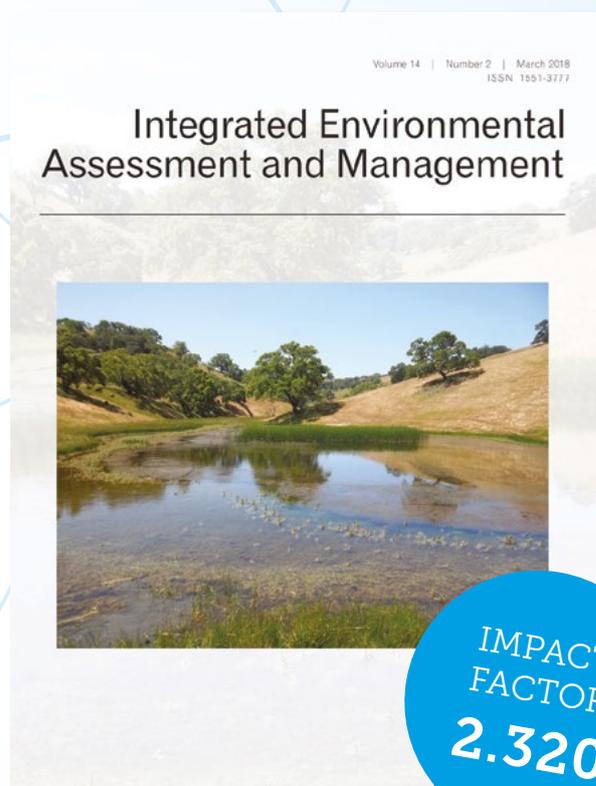
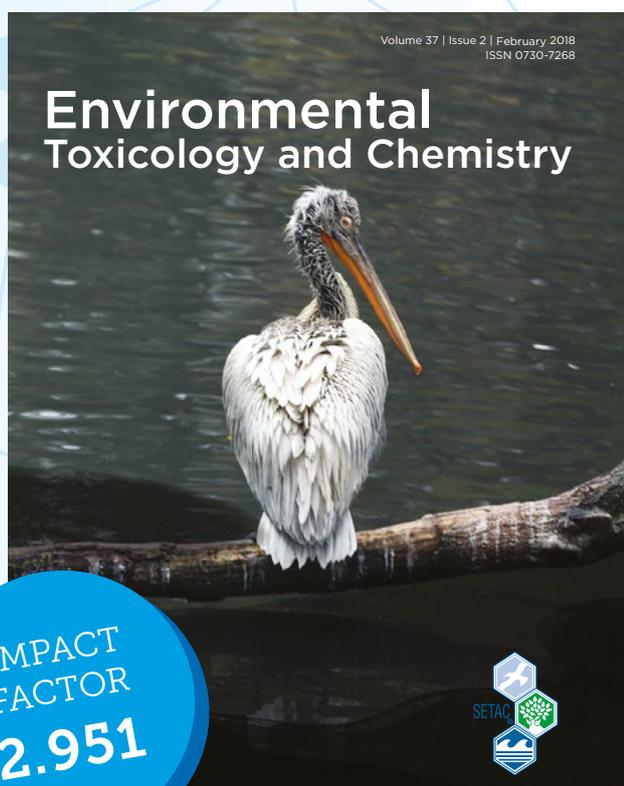


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THURSDAY 17 MAY

Daily Schedule		Location
7:30 a.m.–2:00 p.m.	Registration Open	Registration Desk
7:30 a.m.–8:30 a.m.	Poster Setup	Exhibition Hall
8:30 a.m.–10:05 p.m.	Platform Session <i>Morning 1</i>	
10:05 a.m.–10:50 a.m.	Coffee Break & Poster Viewing	Exhibition Hall
10:50 a.m.–12:25 p.m.	Platform Session <i>Morning 2</i>	
12:25 p.m.–3:00 p.m.	Farewell Reception and Poster Viewing Young Scientist Awards (Best Poster and Best Platform) Presentation	Exhibition Hall
3:00 p.m.	End of Conference	

Satellite Meetings		Location
11:00 a.m.–12:00 p.m.	Indigenous Knowledge and Values Interest Group	Meeting Room 7
11:00 a.m.–12:00 p.m.	SETAC Europe Annual Meeting 2019 Local Organising Committee	Meeting Room 10
12:30 p.m.–2:45 p.m.	LCIA TF4 workshop	Meeting Room 10
12:30 p.m.–2:45 p.m.	LCIA TF2.2 workshop	Meeting Room 6
1:00 p.m.–5:00 p.m.	Wildlife Toxicology Interest Group Workshop	Meeting Room 2
2:00 p.m.–3:30 p.m.	ECETOC/CEFIC LRI ECO 41 – Progress Review Meeting	Meeting Room 1
3:00 p.m.–5:00 p.m.	LCIA Crosscutting Issues Session	Meeting Room 7

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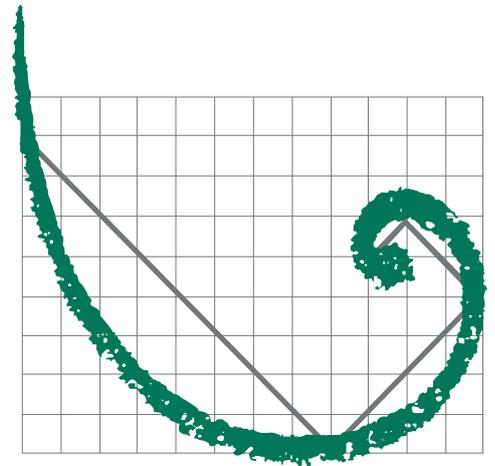




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PROGRAMME HIGHLIGHTS

★ Special Session

Environmental Specimen Banks in Research and Regulation for a Better Environmental Quality

Thursday, 17 May | 8:30 a.m.–10:05 a.m. | Session Room Q

Jan Koschorreck

UBA, Germany

Sara Danielsson

*The Swedish Museum of Natural History,
Sweden*

Environmental specimen banks (ESBs) systematically store high quality samples from the environment and human populations in support of chemicals management and innovative research for a better environmental quality. ESBs are operated by environment agencies as part of the national long-term environmental research infrastructure or by environmental research institutes. There is a large potential to make better use of ESB samples in research and chemicals regulation.

ESB sampling is already ongoing for up to 50 years at regular intervals in the freshwater, marine and/or the terrestrial compartment. Some ESBs also sample human populations. ESB operations are guided by strict protocols for sampling, processing and archiving. The samples are stored at low or ultra-low temperatures in the archives which provides for their long-term biological and chemical integrity.

There are around 30 ESBs in the world, of which around 20 are located in Europe. The specimens are used to monitor the quality of the environment and the efficacy of regulatory efforts to control known hazardous substances like metals, PAHs, PBDEs, dioxins and other organochlorines. However, the main objective of ESBs is retrospective analysis of chemicals of emerging concern (CECs): ESB samples allow for spatio-temporal analysis of substances which were unknown, not known to be hazardous or not analytically detectable at the time of sampling. Recent examples are new PFAS, new flame retardants, chlorinated paraffins, nanomaterials and

pharmaceuticals.

The systematic use of high quality ESB data and samples has the potential to significantly increase our understanding of the fate of regulated and non-regulated contaminants in the environment. ESB data are already being used to some extent to identify persistent organic pollutants (POPs) under the Stockholm Convention and potential persistent and bioaccumulative compounds in REACH legislation. However, consistent and interdisciplinary approaches that make better use of high quality ESB samples can overcome the reluctant use of monitoring data in chemicals risk assessment.

The application of cutting edge analytical methods to ESB samples is a win-win situation for the value of ESB samples and our understanding of the quality of the environment. For example, Non-Target Screening is a promising tool that will add significant data on the temporal occurrence of chemicals in ecosystems. Some archived samples are now also used for barcoding and meta-barcoding approaches of environmental eDNA revealing temporal changes in biodiversity and offering interdisciplinary links to this research area. Furthermore, banked environmental and human samples can be incentives for interdisciplinary and integrated exposure assessments.

This ESB session has the aim to discuss interdisciplinary applications for ESB samples and to initiate collaborations with environmental scientists and regulators in the field of long-term environmental quality monitoring.

Programme

- 08:30 a.m. Introduction
- 08:35 a.m. Monitoring of POPs in the Swedish aquatic ecosystem and in human milk | **Elisabeth Nyberg**, *The Swedish Museum of Natural History, Sweden*
- 08:50 a.m. Jumping out of the frying pan and into the fire? Spatial and temporal trends for PBDE, Dechlorane Plus and alternative flame retardants in samples of the German environmental specimen bank | **Annekatriin Dreyer**, *Eurofins GfA GmbH, Germany*
- 09:05 a.m. New Uses of Archived Specimens from the U.S.A. NIST Marine Environmental Specimen Bank | **Rebecca Pugh**, *National Institute of Standards and Technology, USA*
- 09:20 a.m. Monitoring of the indoor environment of ESB laboratories with selected target and non-target screening methods | **Pernilla Bohlin Nizzetto**, *Norwegian Institute for Air Research, Norway*
- 09:35 a.m. DNA banking and its relevance for biodiversity research | **Jonas Astrin**, *Zoological Research Museum Alexander Koenig, Germany*
- 09:50 a.m. Discussion on environmental specimen banking in research and regulation
- 10:05 a.m. End

	8:35 a.m.	8:50 a.m.	9:05 a.m.
Session Room A	Hazard and Exposure Assessment of Chemical Mixtures: Steps Towards Increasing the Realism of Chemical Risk...		
	550 Development of a diagnostic toolbox for ecological effects of pollutant mixtures and application to evaluate results from the third Joint Danube survey Andreas Focks, Alterra Wageningen University and Research Centre, Netherlands	551 How can we identify "drivers of mixture risks"? Thomas Backhaus, University of Gothenburg, Sweden	552 Application of new statistical distribution approaches for mixture risk assessment Aude Emma Kienzler, JRC-EC, Italy
Session Room B	Advances in Soil Ecotoxicology and Risk Assessment of Terrestrial Ecosystems (I) Mark Maboeta, Bjorn Scholz-Starke,...		
	556 Time-dependent effects of two fungicides and their mixture on enchytraeid and earthworm communities under field conditions Pauline Thiel, INRA, France	557 Toxicity of imidacloprid and thiacloprid towards four Collembolan species Claudia Lima, Vrije Universiteit Amsterdam, Netherlands	558 Dirty dancing: Measuring mite movement responses to pesticide residues Joanna Witton, Environment Dept, University of York, UK
Session Room C	Challenges, Methodological Developments and Practical Solutions for Social Life Cycle Assessment in Industry and Policy ...		
	562 Developments and recommendations on the practical use of Social LCA Silvia Di Cesare, CIRAD, Italy	563 TBD	564 Social significance analysis of products – considering negative and positive social impacts along the supply chain of leather products Sabrina Neugebauer, RWTH Aachen University, Germany
Session Room D	Developments in the Use of Bioassays for Chemical and Environmental Risk Assessment (I) Ron van der Oost,...		
	568 Application of Equilibrium and Toxicokinetic Models to Understand the Behaviour of Organic Chemicals in In Vitro Toxicity Tests James Armitage, University of Toronto – Scarborough, Canada	569 Experimental exposure assessment in in vitro bioassays for organic acids Luise Henneberger, Helmholtz centre for environmental research – UFZ, Germany	570 A versatile and low-cost open source pipetting robot for automation of toxicological and ecotoxicological bioassays Leonie Nuesser, RWTH Aachen University, Institute for Environmental Research, Germany
Session Room E	From Detection to Action: Advancements in Assessing and Managing Highly Fluorinated Compounds Xindi Hu,...		
	574 Toward the Comprehensive Profiling of Zwitterionic, Cationic, and Anionic Perfluoroalkyl and Polyfluoroalkyl Substances in Firefighting Foam Impacted Soils Gabriel Munoz, Université de Montreal, Canada	575 Investigation of perfluoroalkyl and polyfluoroalkyl substances in products used for building industry as well as industrial textiles and their possible contribution to water contamination Raphael Janousek, Hochschule Fresenius, University of Applied Sciences, Germany	576 The growing role of seafood consumption for exposures to legacy PFASs Evident in Longitudinal Birth Cohorts from the Faroe Islands Clifton Dassuncao, Harvard University, USA
Session Room M	Improvements in Environmental Exposure Assessment: Development and Application of Tools Across Industry Sectors,...		
	580 Environmental fate and exposure models: Advances and challenges in 21st century chemical risk assessment Martin Scheringer, ETH Zurich, Switzerland	581 Development and update of environmental exposure assessment tool EUSES for REACH and BPR Regulations Stefano Frattini, ECHA-European Chemicals Agency, Finland	582 Advances in exposure assessment of fertilizers: Development of a fertilizers environmental exposure tool and generic exposure scenarios under REACH Leondina Della Pietra, Fertilizers Europe, Belgium
Session Room N	Risk Assessment of Nanomaterials: Innovative Approaches and Application of Recent Research Developments to Regulatory...		
	586 Regulatory tools and activities for environmental risk assessment of nanomaterials in ECHA Anu Kapanen, European Chemicals Agency – ECHA, Finland	587 Building a Risk Assessment Framework for Nanomaterials in Canada Marie-Claude Sauve, Environment Canada, Canada	588 Inventory of available tools, methods, approaches and best practices on nanomaterials/nanotechnologies Simona Scalbi, ENEA, Italy
Session Room O	Natural Toxins and Harmful Algal Blooms (HABs): Water and Food Safety, Analysis, Toxicity, and Risks (I) ...		
	592 Occurrence of cyanotoxins in Greek lakes Anastasia Hiskia, National Center for Scientific Research, Greece	593 Interactions between cyanobacteria and daphnia Claudia Wiegand, Université de Rennes 1, France	594 Teratogenic retinoid-like compounds produced by cyanobacteria into surface waters Klara Hilscherova, Masaryk University, Faculty of Science, RECETOX, Czech Republic
Session Room P	Advancing the Adverse Outcome Pathway Framework – An International Horizon Scanning Approach Carlie LaLone, Markus Hecker		
	598 Setting the Stage to Advance the Adverse Outcome Pathway Framework through Horizon Scanning Carlie LaLone, U.S. EPA, USA	599 Adverse Outcome Pathway networks: Development, analytics and applications Dries Knapen, University of Antwerp, Belgium	600 Building and Applying Quantitative Adverse Outcome Pathway Models for Chemical Hazard and Risk Assessment Stefan Scholz, Helmholtz Centre for Environmental Research, Germany
★ Session Room Q	Environmental Specimen Banks in Research and Regulation for a Better Environmental Quality Jan Koschorreck, Sara Danielsson		
	604 Monitoring of POPs in the Swedish aquatic ecosystem and in human milk Elisabeth Nyberg, Swedish Museum of Natural History, Sweden	605 Jumping out of the frying pan and into the fire? Spatial and temporal trends for PBDE, Dechlorane Plus and alternative flame retardants in samples of the German environmental specimen bank Annekatriin Dreyer, Eurofins GfA GmbH, Germany	606 New Uses of Archived Specimens from the U.S.A. NIST Marine Environmental Specimen Bank Rebecca Pugh, National Institute of Standards and Technology, USA

	9:20 a.m.	9:35 a.m.	9:50 a.m.	
Session Room A	...Assessment (I) Thomas Backhaus, Todd Gouin, Daniel Salvito, Rolf Altenburger			COFFEE BREAK
	553 Towards the development of a framework for applying non-target chemical analysis data within exposure and risk assessment Todd Gouin , <i>TG Environmental Research, UK</i>	554 A common framework for the assessment of human and ecological risks from pollutant mixtures in European surface waters – case study with > 300 chemicals co-occurring in the Danube Andreas Kortenkamp , <i>Brunel University London, UK</i>	555 Pesticides do rarely come alone, except in risk assessment – Risk indices of ranked spray series of the project COMBITOX Bjorn Scholz-Starke , <i>RWTH Aachen University, Institute for Environmental Research, Germany</i>	
Session Room B	...Heidi Cunningham, Silvia Pieper			
	559 Should oral exposure in Hypoaspis aculeifer tests be considered in order to keep them in Tier I test battery for ecological risk assessment of PPPs? Tiago Natal-da-Luz , <i>CFE – Centre for Functional Ecology, Portugal</i>	560 Plant protection products in agricultural soils – Do active ingredients show a comparable pattern in worms and in soil? Thomas Schmidt , <i>IES Ltd, Switzerland</i>	561 PBT assessment of substances – Proposal of a trigger value for bioaccumulation in terrestrial oligochaetes Markus Simon , <i>Fraunhofer IME, Germany</i>	
Session Room C	...Andreas Ciroth, Andrea Porcari			
	565 Integration of sustainability in industrial research and innovation: Perspectives from ArcelorMittal's experience Anne-laure Hettinger , <i>ArcelorMittal, France</i>	566 Social footprint of a packaging waste deposit-refund system in Spain Ivan Muñoz , <i>2.-0 LCA consultants, Denmark</i>	567 Poster spotlight: TH226, TH227, TH228	
Session Room D	...Jonny Beyer, Michelle Embry			
	571 An intestinal fish cell barrier model to assess absorption of poorly soluble organic chemicals in vitro Hannah Schug , <i>Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland</i>	572 A new paradigm in water sampling – how can we challenge the needs of effect-based monitoring? Tobias Schulze , <i>Helmholtz centre for environmental research – UFZ, Germany</i>	573 Prioritization of non-target screening suspects based on semi-quantitative concentrations and ToxCast in vitro toxicity data Milou Dingemans , <i>KWR Watercycle Research Institute, Netherlands</i>	
Session Room E	...Rainer Lohmann, Jon Benskin			
	577 Membrane-water partition coefficients to aid PFAS risk assessment Steven Droge , <i>University of Amsterdam/IBED Institute, Netherlands</i>	578 Impacts of ocean circulation on the marine PFOS burden in an era of geographically shifting emissions Charlotte Wagner , <i>Harvard University, USA</i>	579 PFAS pollution at airport sites: Point and diffuse sources, fate and transport and remediation Gijs Breedveld , <i>Norwegian Geotechnical Institute, Norway</i>	
Session Room M	...Regulatory Agencies, and International Boundaries (I) Laura McConnell, Romanas Cesnaitis, Todd Gouin, Rai Kookana			
	583 Bioaccessibility of grease thickeners and the implications for REACH registration Rebecca Brown , <i>wca consulting, UK</i>	584 The durability criteria: a pragmatic and sound approach to the exposure assessment of nano-enabled agrochemicals Rai Kookana , <i>CSIRO, Australia</i>	585 Can we model emissions, fate and exposure on a global scale? A case study of PCB 153 in human milk Fangyuan Zhao , <i>Stockholm University, Sweden</i>	
Session Room N	...Science Laurence Deydier Stephan, Sonia Manzo, Simona Scalbi, Doris Volker			
	589 The Application of Ecotoxicological Tools to Safer-by-Design Strategies for Engineered Nanomaterials Andrew Barrick , <i>Association Saint Yves / UCO, France</i>	590 Minimising the risk posed by TiO ₂ nanomaterials used in sunscreen throughout the entire product lifecycle Jerome Labille , <i>CNRS, France</i>	591 Environmental risk assessment of engineered nano-SiO ₂ , nano iron oxides, nano-CeO ₂ , nano-Al ₂ O ₃ , and quantum dots Bernd Nowack , <i>EMPA, Switzerland</i>	
Session Room O	...Gemma Giménez Papiol, Hans Christian B. Hansen, Helena Cristina Silva de Assis, Thomas Bucheli			
	595 (Co-)Production Dynamics of Cyanobacterial Peptides Regiane Sanches Natumi , <i>Eawag Swiss federal Institute of Aquatic Science and Technology, Switzerland</i>	596 Development of methods for Measuring Total Microcystins in Fish Tissue using the 2-methoxy-3-methyl-4-phenylbutyric acid (MMPB) procedure James Lazorchak , <i>U.S. EPA, USA</i>	597 Saponins in the aquatic environment: Hydrolysis and toxicity Nina Cedergreen , <i>University of Copenhagen, Denmark</i>	
Session Room P	Advancing the Adverse Outcome Pathway Framework – An International Horizon Scanning Approach Carlie LaLone , Markus Hecker			
	601 Use of Adverse Outcome Pathways to Inform Decisions on Chemical Innovation, Regulation & Stewardship Thomas Hill , <i>US EPA NHEERL/ISTD/CB, USA</i>	602 Ensuring Long-Term Utility of the AOP Framework and Knowledge for Multiple Stakeholders Gerald Ankley , <i>U.S. EPA, USA</i>	603 Adverse Outcome Pathways: Moving from a scientific concept to a globally accepted framework Markus Hecker , <i>University of Saskatchewan, Canada</i>	
★ Session Room Q	Environmental Specimen Banks in Research and Regulation for a Better Environmental Quality Jan Koschorreck , Sara Danielsson			
	607 Monitoring of the indoor environment of ESB laboratories with selected target and non-target screening methods Pernilla Bohlin Nizzetto , <i>Norwegian Institute for Air Research, Norway</i>	608 DNA banking and its relevance for biodiversity research Jonas Astrin , <i>Zoological Research Museum Alexander Koenig, Germany</i>	609 Discussion on environmental specimen banking in research and regulation	

	10:55 a.m.	11:10 a.m.	11:25 a.m.
Session Room A	Hazard and Exposure Assessment of Chemical Mixtures: Steps Towards Increasing the Realism of Chemical Risk...		
	610 Poster spotlight: TH273, TH288, TH285	611 Environmental risk assessment of multiple stressors – chemicals and ionizing radiation Karina Petersen, NIVA – Norwegian Institute for Water Research, Norway	612 Assessing health risk associated with micro-pollutant mixtures in drinking water: an innovative combination of in vivo and in vitro assays and analytical screenings Yves Levi, Univ. Paris Sud, France
Session Room B	Advances in Soil Ecotoxicology and Risk Assessment of Terrestrial Ecosystems (II) Mark Maboeta, Bjorn Scholz-Starke,...		
	616 How protective is the current risk assessment for soil invertebrates? Pia Kotschik, Umweltbundesamt / Federal Agency of Environment, Germany	617 Risk assessment of soil organisms in field: Dealing with earthworm community Yannick Bayona, ANSES, France	618 Metal soil threshold calculator tool: use of available data for derivation of metal soil quality standards for different scenarios and protection goals Koen Oorts, ARCHE, Belgium
Session Room C	Emerging Technologies and Related Raw Materials Requirements Scenarios: The Role of Life Cycle Thinking Laura Cutaia,...		
	622 Wood-fibres composite in substitution of a synthetic material to enhance sustainability purposes for automotive sector Silvia Maltese, Magneti Marelli SpA, Italy	623 Resource depletion of a Lithium ion battery cell technology Maria Anna Cusenza, Università degli Studi di Palermo, Italy	624 Analysing the environmental impacts of alternative solutions for passenger transportation: LCA of a charging station for e-bicycles Giovanni Mondello, University of Roma Tre, Italy
Session Room D	Developments in the Use of Bioassays for Chemical and Environmental Risk Assessment (II) Ron van der Oost, Jonny Beyer,...		
	628 SIMONI: Smart integrated monitoring of the water quality Ron van der Oost, Waternet, Netherlands	629 Bioassay battery responses to POCIS and Speedisk passive sampler extracts Milo de Baat, University of Amsterdam, Netherlands	630 Endocrine modulation and toxic effects of sunscreen chemicals, Octocrylene and Benzophenone, on zebrafish Qi Meng, The Chinese University of Hong Kong, Hong Kong
Session Room E	Indigeneity and Science: A Collaborative Work in Progress Tracey Godfery, Bradley Moggridge, Ross Smith		
	634 The Nechako White Sturgeon Recovery Initiative: A discussion of species at risk conservation, scientific outreach, community and First Nations support Taylor Lane, University of Saskatchewan, Canada	635 The NSERC CREATE H ₂ O Program on First Nations Water and Sanitation Security: Case Studies on Drinking Water Quality Annemieke Farenhorst, University of Manitoba, Canada	636 Rare earth elements (REEs) in the Canadian Subarctic: Scientific perspectives and community engagement with environmental monitoring in Nunavik, Northern Quebec Gwyneth MacMillan, Centre d'études nordiques, Université de Montréal, Canada
Session Room M	Improvements in Environmental Exposure Assessment: Development and Application of Tools Across Industry Sectors,...		
	640 Tap water intake of poly – and perfluoroalkyl substances (PFASs) in relation to serum concentrations in a nationwide prospective cohort of U.S. women Xindi Hu, Harvard University, USA	641 Consideration of the bioavailability of metals and metal compounds in freshwaters in regulatory frameworks Heinz Ruedel, Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany	642 Age-Based and Time Trends of Exposure Chemical Biomarkers in the US Population 1999–2014 Vy Nguyen, University of Michigan, USA
Session Room N	Ecotoxicology of Micro and Nanoplastics: Mechanistic Approaches to Understand Their Risk for the Environment and...		
	646 Wastewater-based microplastics: Presence in wastewater effluent and effects on freshwater organisms Shima Ziajahromi, Griffith University – Smart Water Research Centre, Australia	647 What is in our plastic? In vitro toxicity of extracts from plastic products Lisa Zimmermann, Goethe University Frankfurt am Main, Germany	648 Microplastic size-dependent toxicity, oxidative stress induction, and multixenobiotic resistance (MXR) inhibition in the monogonont rotifer (<i>Brachionus koreanus</i>) Chang Bum Jeong, Hanyang Univ., South Korea
Session Room O	Natural Toxins and Harmful Algal Blooms (HABs): Water and Food Safety, Analysis, Toxicity, and Risks (II) ...		
	652 Dissipation of the carcinogen ptaquiloside in water resources Lars Holm Rasmussen, Metropolitan University College, Denmark	653 On-line detection of algal toxins in sea water Sergio Bodini, SYSTEA, Italy	654 A decade of chemical studies on <i>Ostreopsis</i> . What's left? Carmela Dell'Aversano, University of Napoli Federico II, Department of Pharmacy, Italy
Session Room P	Advances in Evaluating and Regulating Endocrine Disruptors Heiko Schoenfuss, Gerd Maack, Francesca Pellizzato, Lennart Weltje		
	658 Hazard identification of endocrine disrupting properties of pesticides on non-target organisms: state of the art and future perspectives Stefania Barmaz, EFSA – European Food Safety Authority, Italy	659 Contaminants of emerging concern in the North American Great Lakes: Evidence of reproductive disruption from field and laboratory studies Heiko Schoenfuss, St. Cloud State University, USA	660 AOP-informed assessment of Endocrine Disruption in freshwater crustaceans Knut Erik Tollefsen, NIVA, Norway
Session Room Q	BiER is Good For You: How Biotransformation and Elimination Rate Information Can Improve Chemical Assessments ...		
	664 A Tiered Approach for Screening Chemicals for Biomagnification Potential in Humans Alessandro Sangion, University of Insubria, Italy	665 Critical Evaluation of a Human In Vitro Biotransformation Rate Database: Case Study of Seven Chemicals Karen Foster, ARC Arnot Research and Consulting Inc., Canada	666 Sediment-associated cyclic volatile methylsiloxanes: Biotransformation in a freshwater oligochaete and an estuarine polychaete Henriette Selck, Roskilde University, Denmark

	11:40 a.m.	11:55 a.m.	12:10 p.m.
Session Room A	<p>...Assessment (II) Thomas Backhaus, Todd Gouin, Daniel Salvito, Rolf Altenburger</p> <p>613 The application of DGT to assess the risk of metal mixtures in polar environments Darren Koppel, <i>University of Wollongong, Australia</i></p>	<p>614 Ecotoxicity testing of environmentally realistic contaminant mixtures using passive samplers: What can we learn from repeating toxicity tests over an extended period of time? Samuel Moeris, <i>Ghent University (UGent), Belgium</i></p>	<p>615 Marine Diatom Exposure to a Complex Mixtures of Fourteen Chemical Pollutants at Environmental Concentrations. What did we learn? Teresa Lettieri, <i>European Commission – Joint Research Centre, Italy</i></p>
Session Room B	<p>...Heidi Cunningham, Silvia Pieper</p> <p>619 Assessment of pesticides on a landscape level – What is basically needed? Andreas Toschki, <i>Research Institute gaiac, Germany</i></p>	<p>620 Potential new soil test requirements for the risk assessment of pesticides in the European Union: Do we have the right methods? Jörg Römbke, <i>ECT Oekotoxikologie GmbH, Germany</i></p>	<p>621 Poster spotlight: TH154, TH155, TH156</p>
Session Room C	<p>...Grazia Barberio, Serena Righi, Alessandra Bonoli</p> <p>625 Raw materials requirements scenarios for the electric mobility penetration in the Italian urban vehicle fleet: A life cycle thinking approach combined with raw materials assessment Cristian Chiavetta, <i>ENEA, Italy</i></p>	<p>626 Coupling dynamic carbon accounting and partial-equilibrium economic model for energy policy assessment Ariane Albers, <i>IFPEN, France</i></p>	<p>627 Poster spotlight: TH304, TH309, TH314</p>
Session Room D	<p>...Michelle Embry</p> <p>631 Current status of in vitro bioassay approach in environmental risk assessment of abiotic environmental mixtures and individual organic contaminants Miroslav Machala, <i>Veterinary Research Institute, Czech Republic</i></p>	<p>632 Hormone-like activities in waste water characterized by CALUX bioassays, chemical analysis and Effect-directed Analysis Corine Houtman, <i>The Water Laboratory, Netherlands</i></p>	<p>633 Non-target screening and identification of emerging pharmaceuticals and their transformation products in wastewaters Caroline Parège, <i>Université de Bordeaux, France</i></p>
Session Room E	<p>Indigeneity and Science: A Collaborative Work in Progress Tracey Godfery, Bradley Moggridge, Ross Smith</p>		
Session Room E	<p>637 Te Ohu Mō Papatūānuku: A Collective Response to Healing Tracey Godfery, <i>Te Whare Wananga O Awanuiarangi, New Zealand</i></p>	<p>638 Discussing the Unfamiliar but Contentious: Hydraulic Fracturing Consultation with Remote, Indigenous Communities in the Northern Territory, Australia Ross Smith, <i>Hydrobiology Pty Ltd, Australia</i></p>	<p>639 Incorporating cultural values and perspectives of First Peoples' (Aboriginal People) into water planning, science and environmental water management Bradley Moggridge, <i>Institute for Applied Ecology, University of Canberra, Australia</i></p>
Session Room M	<p>...Regulatory Agencies, and International Boundaries (II) Laura McConnell, Romanas Cesnaitis, Todd Gouin, Rai Kookana</p>		
Session Room M	<p>643 Biomarkers for the assessment of water quality in tropical estuarine environments in northeast Brazil Marianna Jorge, <i>Universidade Federal Maranhão – UFMA, Brazil</i></p>	<p>644 Monitoring of priority substances in German freshwater fish of different age, size and trophic level Georg Radermacher, <i>Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany</i></p>	<p>645 Using Paleoecotoxicology to Assess the Toxicity of Lake Sediments Impacted by Legacy Gold Mining in Yellowknife, NT, Canada Cynthia Cheney, <i>University of Ottawa, Canada</i></p>
Session Room N	<p>...Human Health Francisca Fernandez-Piñas, Roberto Rosal, Miguel Pleiter</p>		
Session Room N	<p>649 Sorption of model pollutants on microplastics and toxicity assessment using early life stage of zebrafish (<i>Danio rerio</i>) Bettie Cormier, <i>EPOC University of Bordeaux, France</i></p>	<p>650 Comparative role of microalgae and microplastics in the effects of chlorpyrifos on molecular biomarkers in marine mussels Leticia Vidal-Iñan, <i>Universidad de Vigo, Spain</i></p>	<p>651 Poster spotlight: TH001, TH002, TH003</p>
Session Room O	<p>...Gemma Giménez Papiol, Hans Christian B. Hansen, Helena Cristina Silva de Assis, Thomas Bucheli</p>		
Session Room O	<p>655 Untangling the geosmin appearance in a Mediterranean river: Relationship of geosmin concentration and physicochemical parameters over a year Carmen Espinosa, <i>Universitat de Vic – Universitat Central de Catalunya, Spain</i></p>	<p>656 Italian guidelines to assess and manage the risk associated to cyanobacteria blooms in water during bathing and recreational activities Maura Manganelli, <i>Istituto Superiore di Sanità, Italy</i></p>	<p>657 Identification and prioritization of emerging risks for food safety: Climate change as a driver Angelo Maggiore, <i>European Food Safety Authority (EFSA), Italy</i></p>
Session Room P	<p>Advances in Evaluating and Regulating Endocrine Disruptors Heiko Schoenfuss, Gerd Maack, Francesca Pellizzato, Lennart Weltje</p>		
Session Room P	<p>661 Assessing impacts of place-based mixtures of emerging contaminants on endocrine activity and adverse outcome pathways: Comparisons of different life stages Rebecca Klaper, <i>University of Wisconsin-Milwaukee, USA</i></p>	<p>662 Interference of hepatotoxicity with endocrine activity in zebrafish (<i>Danio rerio</i>) Lisa Baumann, <i>University of Heidelberg, Germany</i></p>	<p>663 Single Pulse Exposure of Different Life Stages of Zebrafish to the Selective Estrogen Receptor Modulator Tamoxifen Citrate Sven Kroesen, <i>Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany</i></p>
Session Room Q	<p>...Michelle Embry, Jon Arnot, Ester Papa</p>		
Session Room Q	<p>667 Toxicokinetics and biotransformation products of diuron and 3,4-DCA in the developing zebrafish embryo (<i>Danio rerio</i>) Emil Jarosz, <i>UFZ Leipzig, Germany</i></p>	<p>668 Application of a generic fish PBTK model for binary mixtures of chemicals Cleo Tebby, <i>INERIS, France</i></p>	<p>669 Application of Aqueous and Dietary In-Vivo Bioaccumulation Tests to Determine Biotransformation Rates, Elimination Rates and other Bioaccumulation Metrics Frank Gobas, <i>Simon Fraser University, Canada</i></p>

COFFEE BREAK

COFFEE BREAK

COFFEE BREAK

TH | Thursday Poster Presentations

Poster Sessions

Setup 7:30 a.m.–08:30 a.m.
Poster Viewing 10:05 a.m.–10:50 a.m.
Poster Viewing 12:25 p.m.–3:00 p.m.
Take Down 2:45 p.m.–3:15 p.m.

Ecotoxicology of micro and nanoplastics: Mechanistic approaches to understand their risk for the environment and human health (P) | **Francisca Fernandez-Piñas, Roberto Rosal, Miguel Pleiter**

TH001 | Synthetic textile fibers end up in agricultural soils – Can these microplastics pose a threat on soil organisms? | **Salla Selonen, University of Helsinki, Netherlands**

TH002 | Effects of microplastic particles of polyhydroxybutyrate towards photosynthetic aquatic organisms | **Miguel Pleiter, Universidad Autónoma de Madrid, Spain**

TH003 | Differential responses of biomarkers in tissues of the blue mussel *Mytilus edulis* exposed to microplastics at environmentally relevant concentrations | **Catherine Mouneyrac, Université Catholique de Louvain, France**

TH004 | Effects of zebrafish exposure to high-density polyethylene and polystyrene microplastics at molecular and histological levels | **Giacomo Limonta, University of Siena, Italy**

TH005 | Uptake and Effects of Synthetic and Natural Microparticles in the Shrimp *Palaemon varians* | **Mara Weidung, University DuisburgEssen, Germany**

TH006 | Microplastics in the sub-surface layers of the South Atlantic Ocean | **Veronica van der Schyff, North-West University, South Africa**

TH007 | Effects of dietary microplastic exposure on fish intestinal physiology | **Giedre Asmonaite, University of Gothenburg, Sweden**

TH008 | Biochemical responses and histological effects resulting from foodborne exposure to post-consumer microplastics in juvenile *Solea senegalensis* | **Marta Martins, Faculty of Sciences and Technology, Universidade Nova de Lisboa, Portugal**

TH009 | Nanoplastic impacts on physical, biochemical, and nutritional characteristics of pacific whiteleg shrimp | **Yoouun Chae, Konkuk University, South Korea**

TH010 | Brood Pouch-mediated Polystyrene Nanoparticle Accumulation During *Daphnia magna* Embryogenesis | **Martina Vijver, CML Leiden University, Netherlands**

TH011 | Micro – and nanoplastic ingestion in blue mussel larvae | **Sinja Rist, DTU (Technical University of Denmark), Denmark**

TH012 | The sub-lethal impact of polystyrene microplastics and nanoplastics on the Mediterranean mussel *M. galloprovincialis* | **Elena Fabbri, University of Bologna, Italy**

TH013 | Effect of cationic amino (PS-NH₂) polystyrene nanoparticles in brine shrimp *Artemia franciscana* nauplii: Biochemical and molecular responses | **Iliaria Corsi, University of Siena, Italy**

TH014 | The impact of nanoplastics on Antarctic krill *Euphausia superba* | **Elisa Bergami, University of Siena, Italy**

TH015 | Exposure to nanoplastics as a potential stressor on *Mytilus galloprovincialis* | **Miguel Oliveira, University of Aveiro, Portugal**

TH016 | The role of microplastic size and type on PAH sorption and bioavailability to copepods | **Andy Booth, SINTEF Ocean, Norway**

TH017 | Limited influence of microplastics on the effects of an endocrine disruptor on the African clawed frog (*Xenopus laevis*) | **Christiane Zarfl, University of Tuebingen, Germany**

TH018 | Kinetics of POPs sorption and plastic additives release to a variety of polymers under Arctic conditions | **Dorte Herzke, NILU – Norwegian Institute for Air Research, Norway**

TH019 | Characterization of microplastics present in personal care products and the study of its toxicity mixed with chlorpyrifos on juveniles of *Solea senegalensis* | **Gemma Albendín, Universidad de Cádiz, Spain**

TH020 | Are microplastics inhibitory to *Daphnia magna* and are they significant vectors for hydrophobic organic pollutants? | **Peter Roslev, Aalborg University, Denmark**

TH021 | Microplastics as vector for hydrophobic organic chemicals in fish: A comparison of two polymers and silica particles, using three different model compounds | **Malin Tivefålh, University of Gothenburg, Sweden**

TH022 | Dietary exposure to polystyrene microplastics contaminated with environmental pollutants induce hepatic biomarker responses in fish | **Giedre Asmonaite, University of Gothenburg, Sweden**

TH023 | Effects of Nanopolystyrene and the Co-Contaminant Tributyltin on the Nematode Community Structure in Sandy Sediments | **Ana I Catarino, Heriot-Watt University, UK**

TH024 | Nanopolystyrene Induces a Decrease in the Oxygen Uptake of Zebrafish Larvae and Enables Sorbed Benzo(a)Pyrene Bioavailability | **Ana I Catarino, Heriot-Watt University, UK**

TH025 | Impacts of exposure to microplastics alone and with adsorbed benzo(a)pyrene on biomarkers and scope for growth in marine mussels *M. galloprovincialis* | **Miren Cajaraville, University of the Basque Country, Spain**

TH026 | Characterization of the adsorption/desorption of benzo(a)pyrene to/from polystyrene micro – and nanoplastics for further toxicity assessment | **Ignacio Martinez, University of Basque Country, Spain**

TH027 | Occurrence of microplastics in epibenthic and sediment-dwelling species in a Norwegian fjord | **Agathe Bour, ECOLAB UMRS245 CNRS UPS INPT, Norway**

TH028 | Development of an optimal analytical protocol for the extraction of persistent organic pollutants adsorbed on plastic debris in the environment | **Albert van Oyen, Plastic Partner GmbH, Germany**

TH029 | Comparison of spiking and dialysis tubing methods for the determination of sorption capacity and plastic-water partition coefficient of three different polycyclic hydrocarbons on microplastics | **Albert van Oyen, Plastic Partner GmbH, Germany**

TH030 | Microplastics in food and beverages – a distorted perspective on risk | **Sinja Rist, DTU (Technical University of Denmark), Denmark**

TH031 | Is the Arctic threatened by plastics? Identifying sources and determining the distribution of microplastics around Svalbard | **Lisa Winberg von Friesen, University of Gothenburg, Sweden**

TH032 | Microplastics – an ecotoxicological issue? How to balance facts and perception without marginalizing an environmental problem | **Carolin Völker, ISOE – Institute for Social-Ecological Research, Germany**

BiER is good for you: How biotransformation and elimination rate information can improve chemical assessments (P) | **Michelle Embry, Jon Arnot, Ester Papa**

TH033 | Assessing biotransformation and bioconcentration factors (BCF) of fragrance materials using in vitro approaches utilizing rainbow trout liver S9 sub-cellular fractions and cryopreserved hepatocytes | **Aurelia Lapczynski, RIFM, USA**

TH034 | Addressing species diversity in biotransformation: Variability in expressed transcripts of hepatic biotransformation enzymes among fishes | **Kellie Fay, CSRA, Inc., USA**

TH035 | Metabolism of Organophosphate Flame Retardants (OPFRs) in Freshwater Fish: Field and Laboratory Studies | **Yiping XU, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China**

TH036 | Bioaccumulation and biotransformation of prochloraz in the aquatic invertebrate *Hyalella azteca* | **Davide Fedrizzi, Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland**

TH037 | Toxicokinetics and metabolite identification of two emerging pollutants, Acesulfame-K and 4-MBC, in the Manila clam *Ruditapes philippinarum* | **Nieves del Rocio Ruiz, INMAR – University of Cadiz, Spain**

TH038 | Organophosphate Esters, Including Alkyl-Substituted Triphenyl Phosphates, in East Greenland Polar Bears and Ringed Seals: Adipose Tissue Concentrations and In Vitro Depletion and Metabolite Formation | **Robert Letcher, Environment and Climate Change Canada, Canada**

TH039 | Proteomics of a metabolic simulation system – a look inside rat S9 | **Sabrina Schiwy, Institute of Environmental Research – RWTH Aachen, Germany**

TH040 | A critically evaluated database of in vitro and in vivo toxicokinetic data for mammals and fish | **Jon Arnot, ARC Arnot Research & Consulting, Canada**

TH041 | A tiered testing strategy for rapid estimation of bioaccumulation by a combined modelling – in vitro testing approach: Derivation of kinetic rate constants in different in vitro models | **Kristin Schirmer, Eawag, Switzerland**

TH042 | Update on development of OECD Test Guidelines and Guidance Document on determination of fish in vitro hepatic clearance | **Michelle Embry, ILSI Health and Environmental Sciences Institute (HESI), USA**

TH043 | The Bioaccumulation Assessment Tool (BAT): A quantitative weight of evidence approach for bioaccumulation assessment | **Liisa Toose, ARC Arnot Research & Consulting, Canada**

TH044 | Towards the use of elimination rates in bioaccumulation assessment – Current challenges and future needs | **Gabriele Treu, German Environment Agency, Germany**

IG TH045 | SETAC Bioaccumulation Science Interest Group | **Lawrence Burkhard, U.S. EPA, USA**

Advances in evaluating and regulating endocrine disruptors (P) | **Heiko Schoenfuss, Gerd Maack, Francesca Pellizzato, Lennart Weltje**

TH046 | Progress of the Japanese Program on Endocrine Disrupting Effects of Chemicals: EXTEND2016 | **Kunihiko Yamazaki, Ministry of the Environment, Japan**

TH047 | Effects of endocrine disruptors on reproductive health: A new approach to integrating ecotoxicological and human health data | **Lise Parent, Télé-université, Canada**

TH048 | Pros and cons of fish toxicity tests in detecting chemicals with endocrine disrupting activities | **Aude Emma Kienzler, JRC-EC, Italy**

TH049 | Towards developing a list of reference chemicals for endocrine assay validation | **Christopher Prosser, ExxonMobil Biomedical Sciences, Inc., USA**

TH050 | Assessment of endocrine disrupting properties of pesticides and biocides: data processing to support data analysis | **Aude Emma Kienzler, JRC-EC, Italy**

TH | Thursday Poster Presentations

TH051 | Assessment of endocrine disrupting properties of pesticides and biocides: data requirements, availability and needs | **Aude Emma Kienzler, JRC-EC, Italy**

TH052 | Plausible or Causal: Bioactivity and mechanistic potency as a critical piece in hazard characterization of endocrine active chemicals | **Ellen Mihaich, ER2, USA**

TH053 | Addressing endocrine concerns for the environment in dossier evaluations with an FSDT – possibility to avoid further vertebrate tests | **Franziska Kaßner, Umweltbundesamt / Federal Environment Agency, Germany**

TH054 | Structural Alerts for Potential Endocrine Disruptors | **Ralph Kühne, Helmholtz centre for environmental research – UFZ, Germany**

TH055 | Mixtures of endocrine disrupting chemicals disrupt behaviour and thyroid hormone related gene expression in Zebrafish (*Danio rerio*) larvae | **Lina Birgersson, University of Gothenburg, Sweden**

TH056 | Contaminants of emerging concern in the North American Great Lakes: Assessing environmental mixtures in multigenerational exposure studies | **Heiko Schoenfuss, St. Cloud State University, USA**

TH057 | Contaminants of emerging concern in the North American Great Lakes: Assessing species sensitivity using environmental mixtures | **Heiko Schoenfuss, St. Cloud State University, USA**

TH058 | Contaminants of Emerging Concern in the North American Great Lakes: Effects from simple exposures to complex mixtures | **Heiko Schoenfuss, St. Cloud State University, USA**

TH059 | Contaminants of emerging concern in the North American Great Lakes: Load reduction and biological recovery after wastewater treatment upgrades | **Heiko Schoenfuss, St. Cloud State University, USA**

TH060 | Contaminants of emerging concern in the North American Great Lakes: Validation of effects through field-based exposures | **Heiko Schoenfuss, St. Cloud State University, USA**

TH061 | Towards a multiparallel detection of biological effects caused by anthropogenic micro-pollutants | **Carolin Riegraf, German Federal Institute of Hydrology, Germany**

TH062 | Endocrine disruptors used in polymers in the offshore oil and gas industry | **Claire Phillips, Cefas Lowestoft Laboratory, UK**

TH063 | Thyroid disruption screening using zebrafish as vertebrate model | **Iñaki Iturria, BioBide, Spain**

TH064 | Development of stably transfected cell lines with zebra fish thyroid hormone receptors alpha and beta for assessing endocrine disruption in environmental samples | **Víctor García Herranz, INIA National Institute for Agricultural and Food Research and Technology, Spain**

TH065 | Screening endocrine disrupting potentials of alternative plasticizers using three cell line assays | **Gowoon Lee, Seoul National University Graduate School of Public Health, South Korea**

TH066 | Development of reporter gene system for assessing cherry shrimp ecdysone receptor agonists using mammalian cells | **King Ming Chan, The Chinese University of Hong Kong, Hong Kong**

TH067 | Micro-injection as an alternative for aquatic exposure? A case study in zebrafish embryos with 17 α -ethinylestradiol | **Ellen Michiels, University of Antwerp, Belgium**

TH068 | Vitellogenin expression, ovarian growth and hormone levels are affected by atrazine in the crayfish *Procambarus clarkii* | **Enrique Rodriguez, University of Buenos Aires, Argentina**

TH069 | Identification of molt-inhibiting hormone and ecdysteroid receptor sequences in *Gammarus pulex* and consequences of

endocrine disruptor exposures | **Eric Gismondi, University of Liege, Belgium**

TH070 | Use of in vivo and in vitro assays to investigate the effects and bioavailability of endocrine disrupting compounds in sediment on the benthic invertebrate *Chironomus riparius* | **Sarah Crawford, RWTH Aachen University, Germany**

TH071 | Assessing acute toxicity of Bisphenol A on *Daphnia magna* by passive dosing approach | **Hyun-ah Kwon, KIST Europe, Germany**

TH072 | Toxic effects of juvenile hormone analogue insecticides, methoprene and fenoxycarb, on cherry shrimp (*Neocaridina davidi*) | **Xuelei Hu, The Chinese University of Hong Kong, Hong Kong**

TH073 | Development of Multimedia Fate Model for Human Risk Assessment of EDCs in the Asan Lake Watershed, Korea | **Yoonkwan Kim, Greenecos Inc., South Korea**

TH074 | Comparative toxicity and endocrine disruption potential of urban and rural atmospheric organic PM1 in JEG-3 human placental cells | **Barend van Drooge, IDAEA-CSIC, Spain**

TH075 | Dietary and non-dietary prenatal exposure to endocrine disruptors (BPA and DEHP). Spanish case study | **María Ángeles Martínez Rodríguez, Universitat Rovira i Virgili, Spain**

TH076 | Sensitive Biomarker Assay using LC-MS/MS: Determination of Thyroid Hormones (T3 and T4) in Fetus, Pup and Adult Rat Serum – Sampling Considerations | **Sunetha Diaram, Envigo, UK**

TH077 | Steroid estrogens and estrogenic activity are ubiquitous in dairy farm watersheds regardless of effluent management practices | **Louis Tremblay, Cawthron Institute, New Zealand**

TH078 | Toxic receipt: Why You Should Avoid it? | **Jelena Milic, Institute of Chemistry, Technology & Metallurgy, Serbia**

TH079 | SETAC Endocrine Disruptor Testing and Risk Assessment Interest Group | **Heiko Schoenfuss, St. Cloud State University, USA**

Risk assessment of Nanomaterials: innovative approaches and application of recent research developments to regulatory science (P) | **Laurence Deydier Stephan, Sonia Manzo, Simona Scalbi, Doris Volker**

TH080 | Evaluate the ecological risk during product development: safe by design case study – Met@Link project | **Reinhilde Weltens, VITO, Belgium**

TH081 | REACH Substance Evaluation of silver – justification of read-across from ionic silver to nanosilver | **Katrien Arijs, ARCHE, Belgium**

TH082 | Revising REACH technical guidance on information requirements and chemical safety assessment for engineered nanomaterials for aquatic ecotoxicity endpoints – recommendations from the EnvNano project | **Sara Sørensen, DTU Environment, Denmark**

TH083 | Identifying criteria for environmental risk assessment models at different stages of nano-material/product innovation considering requirements of various stakeholders | **Sara Sørensen, DTU Environment, Denmark**

TH084 | Considerations of nanomaterial's environmental fate to support grouping and environmental risk prediction | **Monika Herrchen, Fraunhofer IME, Germany**

TH085 | Matrix to predict possible environmental risk of nanomaterials during use phase | **Monika Herrchen, Fraunhofer IME, Germany**

TH086 | Concepts for nanomaterial categories regarding environmental hazard and for prediction of their environmental risk as well

as proof of principle | **Kerstin Hund-Rinke, Fraunhofer IME, Germany**

TH087 | Forms of released engineered nanomaterials: A systematic assessment in material flow analysis | **Veronique Adam, EMPA Technology & Society Lab, Switzerland**

TH088 | Using the SimpleBox4nano tool for predicting the environmental concentration of nanomaterials | **Joris Quik, RIVM, Netherlands**

TH089 | Directions of in silico method development to complement the predictive models used in risk assessment of nanomaterials | **Joris Quik, RIVM, Netherlands**

TH090 | NanoScreen – Minimizing the risk associated with nanomaterials used in sunscreen at all lifecycle stages | **Riccardo Catalano, Aix-Marseille Université, France**

TH091 | OECD Test Guidelines and Guidance Documents for Environmental Safety Assessment of Nanomaterials | **Doris Volker, German Environment Agency, Germany**

TH092 | Applicability of OECD fish bioaccumulation test guideline 305 to nanomaterials | **María Luisa Fernandez-Cruz, INIA – National Institute for Agricultural and Food Research and Technology, Spain**

TH093 | A new test method to determine the bioaccumulation of manufactured nanomaterials in filtering organisms (*Bivalvia*) using the freshwater mussel *Corbicula fluminea* | **Sebastian Kühn, Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany**

TH094 | Genotoxicity of ZnO nanoparticles. A comparison of methods, tools and mechanisms of action in test experimental models used for human and ecological risk assessment | **Sonia Manzo, ENEA, Italy**

From detection to action: advancements in assessing and managing highly fluorinated compounds (P) | **Xindi Hu, Rainer Lohmann, Jon Benskin**

TH095 | Assessment of persulfate oxidation liquid chromatography tandem mass spectrometry for the analysis of perfluoroalkyl and polyfluoroalkyl substances in water | **Gabriel Munoz, Université de Montreal, Canada**

TH096 | Use of biochars for the sorption of poly – and perfluorinated alkyl substances (PFAS) and heavy metals from contaminated soils | **Ludovica Silvani, Norwegian Geotechnical Institute, Norway**

TH097 | Sorption of 14 PFASs to organic soil constituents – the effect of H⁺, Na⁺, Ca²⁺ and Al³⁺ ions | **Hugo de Campos Pereira, Swedish University of Agricultural Science, Sweden**

TH098 | Environmental degradation rates for new PFAS via decarboxylation potential in water, in a MS collision cell and in silico | **Vladimir Nikiforov, NILU – Norwegian Institute for Air Research, Norway**

TH099 | Perfluoroalkylated acids (PFAAs) in soil and invertebrates (Isopoda) near a fluorochemical plant in Flanders, Belgium | **Thimo Groffen, Systemic Physiological and Ecotoxicological Research (SPHERE), University of Antwerp, Netherlands**

TH100 | Occurrence and distribution of legacy per – and polyfluoroalkyl substances (PFASs) and fluorinated alternatives in coastal waters of the German North and Baltic Seas | **Hanna Joerres, Helmholtz-Zentrum Geesthacht, Germany**

TH101 | Suspect screening for short chain PFAS in environmental water samples, waste water treatment plants, and building materials | **Daniel Zahn, Hochschule Fresenius, Germany**

TH102 | Utilization of passive samplers to detect poly – and perfluoroalkyl substances (PFASs) in wastewater treatment plants and estuarine environments | **Rainer Lohmann, Graduate School of Oceanography, University of Rhode Island, Narragansett, Rhode Island 02882, USA**

TH | Thursday Poster Presentations

TH103 | Distribution of per and polyfluoroalkyl substances in sediments of the Spanish coast | **Soledad Muniategui**, *Universidade da Coruña, Spain*

TH104 | Utilization of Polyethylene Passive Samplers to Detect volatile PFAS precursors in water and air | **Rainer Lohmann**, *University of Rhode Island, USA*

TH105 | Occurrence and Removal of perfluoroalkyl and polyfluoroalkyl substances (PFASs) in full-scale water and wastewater treatment plants | **Karina Yew-Hoong Gin**, *National University of Singapore, Singapore*

TH106 | Perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) occurrence in biota in Czech rivers | **Vit Kodes**, *Czech Hydrometeorological Institute, Czech Republic*

TH107 | Analytical strategy to study the distribution of perfluoroalkyl substances in fish tissue of Italian deep subalpine lakes | **Sara Valsecchi**, *Water Research Institute – Italian National Research Council IRSA-CNR, Italy*

TH108 | Potential contribution of targeted and unknown precursors to the apparent biomagnification of perfluoroalkyl acids (PFAA) in the food web of an urban river | **Hélène Budzinski**, *University of Bordeaux, France*

TH109 | PFAS and their precursors in the Environment. First indications from a large scale environmental monitoring study | **Matthias Kotthoff**, *Fraunhofer IME, Germany*

TH110 | A physiologically based toxicokinetic (PBTK) model describing the bioaccumulation of two perfluorinated substances in rainbow trout (*Onchorynchus mykiss*) | **Alice Vidal**, *Irstea Lyon, France*

TH111 | Does water temperature influence the toxicokinetics of perfluorinated substances? Comparison of two dietary experiments in rainbow trout (*Onchorynchus mykiss*) | **Alice Vidal**, *Irstea Lyon, France*

TH112 | Toxicokinetics of perfluorinated alkyl acids in zebrafish embryo | **Carolina Vogs**, *Karolinska Institutet, Sweden*

TH113 | Role of bioaccumulation in the derivation of environmental risk limits for two perfluorinated substances, PFOA and HFPO-DA | **Eric Verbruggen**, *RIVM Expertise Centre for Substance, Netherlands*

TH114 | Perfluoroether carboxylic acids – are these substances appropriate PFOA-alternatives regarding their environmental concerns? | **Claudia Staudé**, *German Environment Agency, Germany*

TH115 | Fluoropolymers: Polymeric PFAS That Satisfy Global Polymer of Low Concern Criteria | **Barbara Henry**, *W.L. Gore & Associates, Inc., USA*

TH116 | Fluoropolymers Are Unique, Low Hazard PFAS Needing Different Analytical and Regulatory Approaches Than Monomeric Fluorinated Substances of High Health and Environmental Hazard | **Barbara Henry**, *W.L. Gore & Associates, Inc., USA*

Advances in Soil Ecotoxicology and Risk Assessment of Terrestrial Ecosystems (P) | **Mark Maboeta**, **Bjorn Scholz-Starke**, **Heidi Cunningham**, **Silvia Pieper**

TH117 | Challenges and Open Questions in Earthworm field testing | **Tobias Vollmer**, *Eurofins Agrosience Services EcoChem GmbH, Germany*

TH118 | Regional Differences of the Environmental Risk Assessment of Pesticides in Soil with a special Focus on the European Union | **Jörg Römbke**, *ECT Oekotoxikologie GmbH, Germany*

TH119 | Adaptation of the earthworm field test method: conceptual overview and first results | **Jörg Römbke**, *ECT Oekotoxikologie GmbH, Germany*

TH120 | Soil ecotoxicology research and ecological risk assessment in southern African mining landscapes | **Mark Maboeta**, *North-West University, South Africa*

TH121 | Establishment of tiered risk assessment approach of pesticides for soil organisms in China | **Jinlin Jiang**, *Nanjing Institute of Environmental Sciences, MEP, China*

TH122 | Ecological recovery and terrestrial Non Target Arthropods: abundance, functional roles and networks | **Melanie Hagen-Kissling**, *Eurofins-Mitox, Netherlands*

TH123 | Comparing effects of fludioxonil on non-target invertebrates using ecotoxicological methods from single-species bioassays to model ecosystems | **Sebastian Höss**, *EcoSsa, Germany*

TH124 | To what extent do soil microarthropods facilitate OM breakdown in an arable field soil? – Implications on specific protection goal setting for soil risk assessment of plant protection products | **Gregor Ernst**, *Bayer Ag, Germany*

TH125 | The role of source sink-dynamics in the assessment of risk to non-target arthropods from the use of plant protection products | **Gavin Lewis**, *JSC International Ltd, UK*

TH126 | Classification of uncertainty in ecotoxicological risk assessment of pesticides | **Agnieszka Hunka**, *Halmstad University, Sweden*

TH127 | Derivation of soil threshold concentrations for arsenic: consideration of bioavailability through combination of ecotoxicological and analytical data | **Jörg Römbke**, *ECT Oekotoxikologie GmbH, Germany*

TH128 | Activity based in-soil arthropod sampling | **Stefan Dehelean**, *Eurofins-Mitox, Netherlands*

TH129 | The application of the CPCAT approach reduces shortcomings of effect detection for earthworm field studies | **Benjamin Daniels**, *RWTH Aachen University, Germany*

TH130 | Relationship between soil microbial biomass methods used in environmental fate laboratory studies | **Paul Massey**, *Smithers Viscient, UK*

TH131 | Where are the Springtails? New data on the vertical distribution of *Folsomia candida* (Collembola) and its population dynamic in artificial soil | **Luisa Tzschoppe**, *RWTH Aachen University, Germany*

TH132 | Why zinc doesn't matter: habitat quality drives invertebrate response to zinc, not concentration | **Steven Siciliano**, *University of Saskatchewan, Canada*

TH134 | Effects of atmospheric hydrogen chloride and ammonia on *Paronychiurus kimi* (Collembola: Onychiuridae) | **June Wee**, *Korea University, South Korea*

TH135 | Toxicity assessment of methyl ethyl ketone using earthworm and soil algae | **Youn-Joo An**, *Konkuk University, South Korea*

TH136 | Effects of endocrine disrupt chemicals (EDCs) to soil algae | **Youn-Joo An**, *Konkuk University, South Korea*

TH137 | Evaluation of reproduction tests of earthworms and enchytraeids exposed to sugar cane vinasse in natura and after pH adjustment | **Ana Claudia de Castro Marcato**, *Sao Paulo State University – UNESP, Brazil*

TH138 | Ecotoxicological Characterization of Nitrogen-Based Energetic Soil Contaminants | **Roman Kuperman**, *Edgewood Chemical Biological Center, USA*

TH139 | Organismal responses of oligochaetes in bacterial inoculum amended copper oxochloride spiked soils | **Mark Maboeta**, *North-West University, South Africa*

TH140 | Development of a terrestrial biotic ligand model (TBLM) for predicting acute toxicity of cadmium and zinc to soil collembolan *Paronychiurus kimi* | **Jino Son**, *Korea University, South Korea*

TH141 | Characteristics of metal-tolerant bacterial plasmids from a platinum mine tailings dam | **Tladi Mahlatsi**, *North-West University, South Africa*

TH142 | Sensitivity of the waterside species, *Yuukianura szeptyckii* (Collembola: Neanuridae), to cadmium and copper | **Yun-sik Lee**, *Korea University, South Korea*

TH143 | Drivers of copper and zinc availability and phytoavailability in agricultural soils receiving long-term organic waste amendments | **Céline Laurent**, *CIRAD – Centre de coopération internationale en recherche agronomique pour le développement, France*

TH144 | Toxic Effects of Cadmium on Chinese Cabbage, *Folsomia Candida* (Collembola) and their Prediction Modes in 18 Soils of China | **Liping Zheng**, *Nanjing Institute of Environmental Sciences, China*

TH145 | Do we use plant protection products correctly? Impact of agrochemicals on non-target beetle, *Bembidion lampros* (Coleoptera: Carabidae) | **Jayasravanthi Mokkapat**, *Institute of Environmental Sciences, Jagiellonian University, Poland*

TH146 | The fate and bioavailability of currently used and emerging pesticides in agriculturally used fluvisols – effects of soil and pesticide properties | **Lucie Bielská**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

TH147 | A Field Trial to Determine Effects of Thiamethoxam treated Sugar Beet Seed on the Non-Target Arthropod Fauna of Arable Land in The Netherlands | **Pernille Thorbek**, *Syngenta, UK*

TH148 | Bioaccumulation kinetics of pesticides chlorpyrifos and tebuconazole in the earthworm *Eisenia andrei* in two different soils | **Lucie Bielská**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

TH149 | Effects of diuron and imidacloprid on eight nematode species | **Julie Neury-Ormanni**, *Irstea, France*

TH150 | Multigeneration effects of pentachlorophenol and 2,2',4,4'-tetrabromodiphenyl ether on *Folsomia candida* | **Min Qiao**, *Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China*

TH151 | Bioaccumulation of lead in earthworms: a comprehensive study to derive a biota-to-soil accumulation factor (BSAF) for risk assessment | **Jasim Chowdhury**, *International Lead Association, USA*

TH152 | Hazard assessment of liquid organic hydrogen carriers in terrestrial environment | **Ya-Qi Zhang**, *Dresden University of Technology, Germany*

TH153 | Combining field measurements and biotest to assess lead and zinc phytoavailability in contaminated urban soils | **Laure Lemal**, *MetRHIZlab, France*

TH154 | Can approaches beyond the traditional ones characterizing the effects on soil microflora provide an added value in the scope of regulation? | **Kerstin Hund-Rinke**, *Fraunhofer IME, Germany*

TH155 | Re-calibration of the earthworm Tier 1 risk assessment of plant protection products – an update | **Gregor Ernst**, *Bayer Ag, Germany*

TH156 | Digging into the soil risk assessment of pesticides: current approach and its uncertainty | **Maria Arena**, *EFSa – European Food Safety Authority, Italy*

IG **TH157** | SETAC Soils Interest Group | **Marlea Wagelmans**, *Bioclear earth, Netherlands*

TH | Thursday Poster Presentations

Natural toxins and harmful algal blooms (HABs): Water and food safety, analysis, toxicity, and risks (P) | Gemma Giménez Papiol, Hans Christian B. Hansen, Helena Cristina Silva de Assis, Thomas Bucheli

TH158 | A novel analytical method for simultaneous quantification of Bracken fern produced carcinogenic ptaquiloside-like compounds and their derivatives | **Lars Rasmussen, Metropolitan University College, Denmark**

TH159 | A novel method for ptaquiloside and pterosin B preservation in groundwater samples | **Natasa Skrbic, University of Copenhagen, Denmark**

TH160 | Harmful algal bloom smart device application: Using image analysis and machine learning techniques for classification of harmful algal blooms | **James Lazorchak, U.S. EPA, USA**

TH161 | Matrix-assisted laser desorption/ionization-time of flight mass spectrometry application for rapid screening of microcystins occurrence in northern Taiwan tap-water reservoirs | **Wanghsien Ding, National Central University, Taiwan**

TH162 | Smelly HABs: Response-surface optimized HS-SPME-GC/MS method for monitoring multi-class HAB odor compounds in water | **Christos Avagianos, EYDAP SA, Greece**

TH163 | Suspected screening of cyanotoxins in freshwater by high performance liquid chromatography coupled to high-resolution mass spectrometry | **Marinella Farre, IDAEA-CSIC, Spain**

TH164 | Oligonucleotide probes for fluorescence in-situ identification of cyanobacterial cells in surface waters | **Laura Dejana, Water Research Institute National Research Council, Italy**

TH165 | Adequacy of EPI Suite prediction models to estimate physicochemical properties of natural toxins potentially present in surface water | **Inés Rodríguez Leal, Stockholm University, Sweden**

TH166 | Cyanobacterial oligopeptides of environmental concern and (co)production dynamics | **Elisabeth Janssen, Eawag Swiss Federal Institute of Aquatic Science and Technology, Switzerland**

TH167 | Degradation of the carcinogen ptaquiloside under alkaline conditions | **Lars Holm Rasmussen, Metropolitan University College, Denmark**

TH168 | Experimental Determination of Octanol-Water Partitioning Coefficients of Natural Toxins | **Carina Schoensee, Agroscope, Switzerland**

TH169 | Phytotoxins as aquatic micropollutants: A procedure for prioritization | **Barbara Guenthardt, Agroscope, Switzerland**

TH170 | Sorption of pterosin B to soil materials | **Lars Holm Rasmussen, Metropolitan University College, Denmark**

TH171 | Modelling the fate of natural toxins in the soil using DAISY – a case study of ptaquiloside | **Daniel Garcia Jorgensen, University of Copenhagen, Denmark**

TH172 | Genomic insight into biosynthetic pathway of retinoids by cyanobacteria | **Luděk Sehnal, Masaryk University RECETOX, Czech Republic**

TH173 | Emerging treatment methods for the removal of cyanotoxins from drinking water with focus on Advanced Oxidation Processes | **Marcel Schneider, RECETOX, Faculty of Science, Masaryk University, Czech Republic**

TH174 | An overview of the effects and bioaccumulation of ciguatoxins in fish | **Marie-Yasmine Dechraoui Bottein, IAEA, Monaco**

TH175 | Aflatoxin contamination in imported nuts for human consumption: Three years (2013–2015) of official control results in Italy | **Rita De**

Pace, Institute of Experimental Zooprohylactic Puglia and Basilicata, Italy

TH176 | Impact of climate change drivers on toxin contamination and genotoxicity in *Mytilus galloprovincialis*: Combined effects of warming, acidification and harmful algal blooms | **Antonio Marques, IPMA, I.P., Portugal**

TH177 | Interest of bivalves for the biosurvey of cyanotoxins in aquatic ecosystems | **Emilie Lance, University Reims Champagne Ardennes, France**

TH178 | Tetrodotoxin an Emerging Threat to Humans in the Mediterranean Area: First Detection in Italian Mussels | **Luciana Tartaglione, University of Napoli Federico II, Italy**

TH179 | The first report on neurotoxic anatoxin-a occurrence in cyanobacterial blooms in the Czech Republic | **Lucie Blahova, Research Centre for Toxic Compounds in the Environment (RECETOX), Czech Republic**

TH180 | Toxic cyanobacteria succession during a drier summer in a water reservoir in Sicily, Southern Italy. Implications for monitoring programs and risk assessment | **Maura Manganeli, Istituto Superiore di Sanità, Italy**

TH181 | Cyanobacteria taste and odor compounds; a study in freshwaters of Greece | **Triantafyllos Kaloudis, EYDAP SA, Greece**

TH182 | Determination of multi-class cyanotoxins in fish tissues | **Christophoros Christophoridis, National Center for Scientific Research, Greece**

TH183 | Effects of *Asparagopsis armata* exudate on the fatty acid profile of two marine invertebrates | **Marco Lemos, Instituto Politécnico de Leiria, Portugal**

TH184 | Impacts of *Asparagopsis armata* on marine invertebrates: Behavioral and biochemical responses | **Marco Lemos, Instituto Politécnico de Leiria, Portugal**

TH185 | Assessing consumption risks through cadmium-contaminated shellfish amplified by ocean acidification | **Wei-Yu Chen, Kaohsiung Medical University, Taiwan**

TH186 | Cyanobacterial toxins – a threat to the human respiratory tract? | **Barbara Kubickova, Masaryk University, Faculty of Science, Czech Republic**

TH187 | Effects of microcystin-LR and cyanobacterial LPS in human airway in vitro models | **Ondřej Brůzma, Masaryk University, Faculty of Science, RECETOX, Czech Republic**

TH188 | Estrogenic and retinoid-like activity in stagnant waters | **Marie Smutna, Masaryk University, Faculty of Science, RECETOX, Czech Republic**

TH189 | Excitatory effects of 2,4 – diamino butyric acid on leech Retzius nerve cell membrane potential | **Svetolik Spasić, Faculty of Medicine, University of Belgrade, Serbia**

TH190 | Generating ecotoxicity information on microcystins and prymnesins: A different approach | **James Lazorchak, U.S. EPA, USA**

TH191 | Proteomic analysis of rice plant exposed to long-term microcystin-LR exposure | **Jinlin Jiang, Nanjing Institute of Environmental Sciences, MEP, China**

TH192 | Probabilistic human health risk assessment for dietary exposure to aflatoxin in Taiwan | **Min-Pei Ling, National Taiwan Ocean University, Taiwan**

TH193 | Organ distribution of the environmental neurotoxin β -N-Methylamino-L-alanine in the freshwater mussel *Dreissena polymorpha* | **Alexandra Lepoutre, UMR 02 INERIS-URCA-ULH SEBIO, France**

Developments in the use of bioassays for chemical and environmental risk assessment (P) | Ron van der Oost, Jonny Beyer, Michelle Embry

TH194 | Responses to PFOA and PFBS exposure in the sediment dwelling invertebrate *Dendrobaena veneta* (Annelida) | **Laura Guidolin, University of Padua, Department of Biology, Italy**

TH195 | Toxicity of Per – and Polyfluoroalkyl substances on *Chironomus dilutus* for use in a relative toxicity model | **Christopher McCarthy, CH2M, USA**

TH196 | Interpretation of bioassay results in the context of the soil quality TRIAD approach | **Sandrine Andres, INERIS, France**

TH197 | Estimating the hazardous concentrations of nonylphenol for soil ecosystem protection with probabilistic approach | **Jin Il Kwak, Konkuk University, South Korea**

TH198 | Organophosphate Triesters and Selected Metabolites Enhance the Binding of Thyroxine to Human Transthyretin In Vitro | **Robert Letcher, Environment and Climate Change Canada, Canada**

TH199 | In Vitro and In Silico Competitive Binding of Brominated Polyphenyl Ether Contaminants With Human and Gull Thyroid Hormone Transport Proteins | **Robert Letcher, Environment and Climate Change Canada, Canada**

TH200 | Phosphine changes cytochrome c oxidase in *Sitophilus oryzae* | **Kyeongnam Kim, Kyungpook National University, South Korea**

TH201 | Effects of additives in mobile phases in simultaneous analysis of glutathione and glutathione disulfide by HPLC-MS/MS | **Seungyun Baik, KIST Europe, Germany**

TH202 | Rapid analysis of bivalves' xenometabolome using High Resolution Mass Spectrometry | **Damia Barcelo, IQAB-CSIC, Spain**

TH203 | River ecosystem: An ecosystem approach to evaluate the ecological risk linked to the human health protection | **Stefania Marcheggiani, Istituto Superiore di Sanità, Italy**

TH204 | Integrated exposure and effect database tools to support hazard and risk assessment | **Knut Erik Tollefsen, NIVA, Norway**

TH205 | Assessing exposure risk for marine bivalve *Mytilus* posed by microplastic polystyrene particles | **Chiyun Chen, National Taiwan University, Taiwan**

TH207 | Innovative Design of Nationwide Dutch Water Quality Monitoring | **Milo de Baat, University of Amsterdam, Netherlands**

TH208 | Smart Monitoring: Application of innovative tools in nationwide water quality assessment | **Milo de Baat, University of Amsterdam, Netherlands**

TH209 | Passive sampling in effect-based monitoring of two European rivers – explicability of in vitro toxic potentials by detected chemicals | **Jiri Novak, Masaryk University, Czech Republic**

TH210 | Testing of realistic contaminant mixtures with the harpacticoid copepod species *Nitocra spinipes* using passive sampler extracts | **Samuel Moeris, Ghent University (UGent), Belgium**

TH211 | Passive dosing of polar and non-polar substances using Oasis HLB® – Pre-equilibration of media for transferring complex mixtures | **David Kämpfer, Institute for Environmental Research (RWTH Aachen University), Germany**

TH212 | Passive dosing strategy for in vitro test systems: Static concentration generator and continuous release | **Frederic Begnaud, Firmenich, Switzerland**

TH213 | Identification of Gestagen(s) and Corticosteroid(s) from Danube River wastewater sample by using LC-HRMS and non-target screening approach | **Muhammad Hashmi, Helmholtz Centre for Environmental Research – UFZ, Germany**

TH | Thursday Poster Presentations

TH214 | Mixture Risk – Development of an effect-based chemical risk assessment strategy for sites contaminated with complex mixtures of organic and inorganic contaminants | **Greta Nilen**, *Orebro University, Sweden*

TH215 | Analyzing chemical pollutants in water samples from an urban river and wastewater effluent in Hyderabad (India) and their ecotoxicological effects using effect-directed analysis (EDA) | **Jonas Daniel**, *RWTH Aachen University, Germany*

TH216 | Ecotoxicological assessment of water samples from an urban river, wastewater treatment plant effluent and industrial effluent in Hyderabad (India) using a set of different bioassays | **Paul Böhm**, *RWTH Aachen University, Germany*

TH217 | NAWA SPEZ 2015: Ecotoxicological risks in five small Swiss streams within agricultural catchments | **Marion Junghans**, *Centre Ecotox EAWAG-EPFL, Switzerland*

TH218 | An ecotoxicological assessment of Lake Mondsee, Austria: A two year survey | **Sandra Goncalves**, *Department of Biology & CESAM – University of Aveiro, Portugal*

TH219 | Availability of estrogens applied onto 96-well plates in the LYES | **Mituna Ragulan**, *Swiss Centre for Applied Ecotoxicology Eawag-EPFL, Switzerland*

TH220 | Mutagenic and ontogenetic responses in freshwater guppy *Poecilia vivipara* chronically exposed to waterborne sodium dodecyl sulfate (SDS) | **Marianna Jorge**, *Universidade Federal Maranhão – UFMA, Brazil*

TH221 | Determination of Izmir bay pollution by using genetic biomarkers in the mussel (*Mytilus Galloprovincialis*) taken from the natural environment | **Özlem Çakal Arslan**, *University Ege, Turkey*

TH222 | Bioassays stress the ecotoxicological differences between polymers and plastics additives in the marine environment | **Ricardo Beiras**, *University of Vigo, Spain*

TH223 | Effects of potassium bromate on the embryological development of the sea urchin *Arbacia lixula* (Linnaeus, 1758) | **Irem Avşar**, *Les Établissements Scolaires Tevfik Fikret, Turkey*

TH224 | Effect of thermal stress on endocrine disruption in *Daphnia magna* | **Joorim Na**, *Korea University, South Korea*

TH225 | Microplate Alga Growth-Inhibition Bioassay | **Iñaki Iturria**, *BioBide, Spain*

Challenges, methodological developments and practical solutions for Social Life Cycle Assessment in industry and policy (P) | **Andreas Ciroth**, **Andrea Porcari**

TH226 | Applying Social-LCA and Social Hot Spot Analysis including a SDG Evaluation to Product Assessments with SEEBALANCE® | **Peter Saling**, *BASF SE, Germany*

TH227 | Piloting Responsible Research and Innovation in Industry | **Andrea Porcari**, *Airi – Italian Association for Industrial Research, Italy*

TH228 | Sustainable Guar Initiative – an integrated approach of social and environmental LCA | **Alain Wathélet**, *Solvay SA, Belgium*

TH229 | How the social pillar can be properly integrated into sustainability evaluation methodology? Evidence from bio-based products case study | **Pasquale Marcello Falcone**, *Unitelma – Sapienza University of Rome, Italy*

TH230 | Methodological considerations for applying social LCA to modelled future European energy systems in the REFLEX project | **Nils Brown**, *KTH royal Institute of Technology, Sweden*

TH231 | Social Life Cycle Assessment of the water system in Mexico City | **Leonor Patricia Güereca**, *Engineering Institute Universidad Nacional Autónoma de México, Mexico*

Improvements in environmental exposure assessment: Development and application of tools across industry sectors, regulatory agencies, and international boundaries (P) | **Laura McConnell**, **Romanas Cesnaitis**, **Todd Gouin**, **Rai Kookana**

TH232 | Environmental Risk Assessment for some additives used in hydrocarbon extraction activities into the sea | **Serena Santoro**, *National Research Council of Italy (CNR), Italy*

TH233 | Multidisciplinary approach for discussing the rice crop specific needs in Southern Europe in the view of the Plant Protection Products assessment: Conclusions from an ad hoc workshop | **Claudia Vaj**, *Dow AgroSciences Italia s.r.l., Italy*

TH234 | The Water Column Monitoring Program in Norway: When regulation and science meet | **Daniela Maria Pampanin**, *International Research Institute of Stavanger, Norway*

TH235 | DAPHNE: A supporting tool for pesticides risk assessors and stakeholders | **Alberto Linguadoca**, *ICPS International Centre for Pesticides and Health Risk Prevention, Italy*

TH236 | The applicability of the assessment entity concept in the REACH registration of complex mixtures. A case study for fragrance substances | **Karen Jenner**, *Givaudan, UK*

TH237 | Canada's Approach to Determining Causes of Impairment at Federal Contaminated Sites | **Mary Sorensen**, *Ramboll Environ, USA*

TH238 | Improving "man via the environment" exposure assessment for lead: A case study with lead battery manufacturing and recycling uses | **Sabine Navis**, *Arche consulting, Belgium*

TH239 | Validation of the industrial Simple Treat model for a site-specific setting | **Jens Otte**, *BASF SE, Germany*

TH240 | Combination of remote sensing and coarse statistical data for determination of precise spatial distribution of a pesticide load onto soils at a national scale | **Vit Kodes**, *Czech Hydrometeorological Institute, Czech Republic*

TH241 | A Bayesian approach to estimate biodynamic model parameters: Bioaccumulation of PCB 153 by the freshwater crustacean *Gammarus fossarum* | **Aude Ratier**, *Irstea Lyon, France*

TH242 | Bioaccumulation and bio-transformation of Hexabromocyclododecane (HBCD) by the freshwater crustacean *Gammarus fossarum*: A Bayesian approach to estimate biodynamic model parameters | **Aude Ratier**, *Irstea Lyon, France*

TH243 | Chemical Exposure Disparities by Demographic Traits in the US Population 1999–2014 | **Vy Nguyen**, *University of Michigan, USA*

TH244 | Occupational exposure to flame retardants among Canadian e-waste dismantlers | **Miriam Diamond**, *University of Toronto, Canada*

TH245 | Global approaches to environmental exposure – assessment of e-wastes | **Hemda Garelick**, *Middlesex University, UK*

TH246 | Droplets deposition pattern from a prototype of a fixed spraying system in a sloping vineyard | **Stefan Otto**, *Italian National Research Council, Italy*

TH247 | Sensitive Arsenic Speciation by Capillary Electrophoresis Using UV Absorbance Detection with On-Line Sample Preconcentration Techniques | **Joon Yub Kwon**, *Seoul National University, South Korea*

TH248 | Determination of background levels of free cyanides in surface waters | **Heinz Ruedel**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

TH249 | Application of equilibrium and kinetic passive sampling method to quantify integrative chemical profile in a small river and the outflow of WWTP | **Yoonah Jeong**, *KIST Europe, Germany*

TH250 | Improvement of relationship between water pesticide contamination and land used at a large scale using the Polar Organic Chemical Integrative Sampler | **Marion Bernard**, *Irstea, France*

TH251 | Development and calibration of o-DGT for pesticides, hormones and pharmaceuticals | **Bertille Bonnaud**, *Irstea Bordeaux, France*

TH252 | Evaluation of Translocation of [¹⁴C] Radiolabeled Plant Protection Product in Tomato Fully Grown in a Greenhouse | **Samuel Freedlander**, *Smithers Viscient, LLC, USA*

TH253 | An Examination of Microbial Biomass in Sediments and the Impact of Seasonal Variation | **Kalumbu Malekani**, *Smithers Viscient, USA*

TH254 | Use of scanning electron microscope (SEM) in evaluation of hypopharyngeal glands development in Honey bees (*Apis mellifera* L.) | **Natalia Lemańska**, *Institute of Industrial Organic Chemistry, Branch Pszczyna, Poland*

TH255 | Comparison of International Quality Assurance and Quality Control Standards for High Resolution Mass Spectrometry Dioxin Analysis | **David Thal**, *Environmental Standards, Inc., USA*

TH256 | New Mass Spectrometry Techniques for the Measurement of Persistent Organic Pollutants | **John Giesy**, *University of Saskatchewan, Canada*

TH257 | Influence of water temperature and salinity on impact of Hazardous and Noxious Substances (HNS) in the marine environment | **Marta Vannoni**, *Cefas, UK*

TH258 | Using Correlations of Biological Toxicity Equivalent Quotients and Toxicity Equivalent Quotients to Derive Threshold Values for Dioxin-Like Compounds in Sediment | **Jacob Ouellet**, *RWTH Aachen University, Germany*

TH259 | Measuring bioconcentration of cationic surfactants in fish | **Michael McLachlan**, *Stockholm University, Sweden*

TH260 | Acetylcholinesterase inhibition: A comparison of available methods for determination of acetylcholinesterase in muscle tissue of *Limanda limanda* | **Joanna Uzyczak**, *Centre for Environment, Fisheries and Aquaculture Science (Cefas), UK*

TH261 | Environmental emission to surface water for analogous exposure path. A reflection on the matter for biocides, human and veterinary medicines | **Amparo Haro-Castuera**, *Spanish Medicines Agency, Spain*

Hazard and exposure assessment of chemical mixtures: steps towards increasing the realism of chemical risk assessment (P) | **Thomas Backhaus**, **Todd Gouin**, **Daniel Salvito**, **Rolf Altenburger**

TH263 | Using microarthropod community assays in metal mixture testing | **Jean Mathieu Renaud**, *CFE – Centre for Functional Ecology, Portugal*

TH264 | Alteration of stress-related and thyroid hormone related genes in zebrafish larvae after the administrations of lead acetate, and mixtures of lead acetate and BDE-209 | **King Ming Chan**, *The Chinese University of Hong Kong, Hong Kong*

TH265 | Assessment of the toxic interaction of lanthanides on aquatic organisms | **Laure Giamberini**, *Université de Lorraine, CNRS UMR 7360, France*

TH266 | Predicting the chemical and biological effects of tertiary metal mixture (Ni, Cu, Cd) to aquatic plant, *Lemna gibba* under different dissolved organic carbon concentrations | **Walter Di Marzio**, *CONICET-PRiET UNLU, Argentina*

TH267 | Isolation and characterization of heavy metal resistant bacteria in soil samples from Mambilla Artisanal mining site, Nigeria

TH | Thursday Poster Presentations

| **Ayantse Martins**, *Federal University Wukari, Nigeria*

TH268 | The exceptions to the rule? Metal bioaccumulation in macroinvertebrates from metal polluted sites with a good ecological status | **Bart Sloomackers**, *Systemic Physiological and Ecotoxicological Research (SPHERE), University of Antwerp, Belgium*

TH269 | Effects of heavy metal mixtures on bioaccumulation and defence mechanisms in common carp, *Cyprinus carpio* | **Giovanni Castaldo**, *University of Antwerp, Belgium*

TH270 | Silver nanoparticles exposure inhibits glycans synthesis and induces cytotoxicity in human cell line | **Kaori Shimizu**, *Toyo University, Japan*

TH271 | Mixture toxicity of ZnO and silver nitrate to *Daphnia magna* | **Min Jeong Baek**, *KIST Europe, Germany*

TH272 | How relevant is mixture toxicity of herbicides in surface water? | **Robin Sur**, *Bayer AG - Crop Science Division, Germany*

TH273 | Simplify: Reasonable approaches to Mixtox assessment for plant protection products | **Arnd Weyers**, *Bayer Ag, Germany*

TH274 | Sublethal toxicity of pesticide mixtures on early life stages of non-target aquatic organisms | **Eliska Rozmankova**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

TH275 | Including multistress in risk assessment of pesticides. Current state of knowledge, based on a literature review and evaluation of tank mixture applications in a spraying schedule for strawberries | **Peter van Vliet**, *Board for the Authorization of Plant Protection Products and Biocides, Netherlands*

TH276 | Modelling acute and chronic risks of pesticides residues in sour cherries | **Pogacean Manuela Olga**, *Phytosanitary Office, Romania*

TH277 | Environmental and Human Cumulative Risk Assessment of Pesticides Using Local Monitoring Data: A Case Study from the Pucara River Basin, Bolivia | **Laia Herrero Nogareda**, *University of Copenhagen, Denmark*

TH278 | Developing a strategy to improve the environmental risk assessment of difficult to test multi-component substances: A new HESI Emerging Issues Committee | **Daniel Salvito**, *Research Institute for Fragrance Materials, Inc., USA*

TH279 | Environmental Risk Assessment of Technical Mixtures under REACH | **Wiebke Drost**, *Federal Environment Agency (UBA), Germany*

TH280 | Natural complex mixtures: Ecotoxic behaviour, what we know and what is next? | **Paul Thomas**, *CEHTRA SAS, France*

TH281 | Testing chemical mixtures: How to determine the effects concentration(s)? | **Geneviève Deviller**, *DERAC, France*

TH282 | Deriving USEtox human non-cancer toxicity Effect factors from the REACH database for thousands of chemicals using R-Studio program | **Erwan Saouter**, *EU Commission JRC, Italy*

TH283 | Deriving USEtox aquatic freshwater toxicity Effect factor from OpenFoodTox database (EFSA) using R-Studio program | **Erwan Saouter**, *EU Commission JRC, Italy*

TH284 | Bioassays for assessing effects of overall migrate from food contact materials | **Jane Muncke**, *Food Packaging Forum Foundation, Switzerland*

TH285 | A unique index to characterize the global noxiousness of stable and radioactive substances for both human health and ecosystems | **Karine Beaugelin-Seiller**, *Institut de Radioprotection et de Sûreté Nucléaire, France*

TH286 | Solution-focused application of mixture modelling and chemical footprints | **Michiel Zijp**, *RIVM, Netherlands*

TH287 | One-week observation of phthalate metabolites in urine from 12 Korean adults: Exposure levels, profiles, and source identification | **Jae-eun Lim**, *Hanyang University, South Korea*

TH288 | Integrating chemical monitoring data with high-content effects data to prioritize contaminants and hazards in chemical mixtures | **Dalma Martinovic-Weigelt**, *University of St. Thomas, USA*

TH289 | Central Asia pollution: Obsolete tailings, obsolete pesticides, obsolete gasoline and human health disorders | **Igor Hadjamberdiev**, *Toxic Action Network Central Asia, Kyrgyzstan*

TH290 | Evaluating HPC ingredients in WWTPs & surface water of the Songhua Catchment using monitoring & high tier modelling tools | **John Kilgallon**, *Unilever, UK*

TH291 | Mesocosm experiment evidences complex responses of biofilm communities along a gradient of chemical pollution | **Antoni Ginebreda**, *Institute of Environmental Assessment and Water Research IDAEA CSIC, Spain*

TH292 | Risk assessment of chemical mixtures in the Erft river basin | **Stefan Rhiem**, *North Rhine Westphalian State Agency for Nature, Environment and Consumer Protection (LANUV NRW), Germany*

TH293 | Assessing groundwater toxicity of emerging contaminant mixtures | **Maria Pavlaki**, *University of Aveiro, Portugal*

TH294 | Mixture effects of Dibutyl phthalate and Sodium dodecyl sulphate on a mesozooplankton community from the Swedish west coast | **Christina Jönander**, *University of Gothenburg, Sweden*

TH295 | Analysis of the Mixture Toxicity Burden in 17 Rivers in North Eastern Australia - Implications for the Great Barrier Reef | **Francis Spilisbury**, *University of Gothenburg, Sweden*

TH296 | Physiological and transcriptomic responses in the tropical coral *Stylophora pistillata* to inorganic sunscreen exposure | **Alice Tagliati**, *Heriot Watt University, UK*

TH297 | Effect of antibiotic mixtures on the growth of *Anabaena flos-aquae* | **Kamsia Budin**, *Environment Department, University of York, UK*

TH298 | Exposure to mixtures of Persistent Organic Pollutants (POPs) can inhibit the transactivation activities of Aryl hydrocarbon Receptor (AHR) in vitro | **Que Doan**, *Université de Liège (ULiège), Belgium*

TH299 | Ecotoxicity of biofuel-mixture DnBE and 1-Octanol on aquatic organisms *Danio rerio* and *Daphnia magna* | **Milena Esser**, *Institute for Environmental Research RWTH Aachen, Germany*

TH300 | Single and combined effects of propiconazole and ZnO (bulk and nano form) on various biomarkers and reproduction in *Enchytraeus albidus* | **Branimir Hackenberger**, *Department of Biology, University of Osijek, Croatia*

TH301 | Mixture toxicity of abamectin and difenoconazole to zebrafish embryos (*Danio rerio*) | **Livia Figueiredo**, *University of São Paulo USP, Brazil*

TH302 | Cocktail-effect of persistent organic pollutants on selected bioreporter-systems and zebrafish embryos | **Norina Pagano**, *RWTH Aachen University, Germany*

Emerging technologies and related raw materials requirements scenarios: The role of life cycle thinking (P) | **Laura Cutaia, Grazia Barberio, Serena Righi, Alessandra Bonoli**

TH304 | Environmental impact assessment of carbon fibers reinforced composites pyrolysis process | **Esmeralda Neri**, *Alma Mater Studiorum - University of Bologna, Italy*

TH305 | Critical raw materials in a new building integrated photovoltaic system | **Daniel Garrain**, *CIEMAT, Spain*

TH306 | Environmental sustainability assessment of a biological Active Pharmaceutical Ingredient: A resource based Life Cycle Assessment | **Ana Renteria Gamiz**, *Ghent University, Belgium*

TH307 | LCA methodology: A case study of the industrial production of terephthalic acid from renewable sources | **Mirco Volanti**, *Università di Bologna, Italy*

TH308 | Environmental assessment of vanadium redox flow batteries | **Christine Minke**, *Technische Universität Clausthal, Germany*

TH309 | Towards the Life Cycle Assessment of engineered nanoparticles production: A comparison between batch and continuous flow synthesis | **Fabio Grimaldi**, *University College London, UK*

TH310 | LCA of nanomaterials production for the emerging technology: The case of printing batteries | **Maria Rosa Riera**, *LEITAT, Spain*

TH311 | Life Cycle Assessment (LCA) applied to new and advanced material solutions in Concentrated Solar Thermal technology | **Ariadna Claret**, *Leitat Technological Center, Spain*

TH312 | Environmental impact and social influence of an Advanced Adiabatic Compressed Air Energy Storage (AA-CAES) located in Eisenerz, Austria. The case of RICAS2020 PROJECT | **Ariadna Claret**, *Leitat Technological Center, Spain*

TH313 | Upgrading wastewater treatment technologies in the framework of current renewable energy policies - an environmental assessment | **Martí Rufi-Salís**, *Universitat Autònoma de Barcelona, Spain*

TH314 | Anticipatory life cycle assessment of sol-gel derived anti-reflective coating for greenhouse glass | **Natalya Tsoy**, *CML Leiden University, Netherlands*

TH315 | Combine process simulation analysis with Life Cycle Assessment method in polyurethane rigid foam production | **Alessandro Bordignon**, *Università di trieste, Italy*

TH316 | Life Cycle Assessment of CO₂-based Methanol Production using Captured CO₂ from Fossil Fuel Power Plants | **Changgun Lee**, *University College London, UK*

Advancing the Adverse Outcome Pathway Framework - An International Horizon Scanning Approach (P) | **Carlie LaLone, Markus Hecker**

TH317 | Linking failed swim bladder inflation of larval Japanese medaka (*Oryzias latipes*) after embryonic exposure to 17 α -ethinylestradiol, levonorgestrel and diclofenac, to disrupted β catenin/Wnt signaling | **Zacharias Pandelides**, *University of Ontario Institute of Technology, Canada*

TH318 | Linking mode of action of the model respiratory and photosynthesis uncoupler 3,5-dichlorophenol to adverse outcomes in *Lemna minor* | **Knut Erik Tollefsen**, *NIVA, Norway*

TH319 | Development of adverse outcome pathways for oxidative stressor-mediated reproductive effects in aquatic invertebrates | **Knut Erik Tollefsen**, *Norwegian Institute for Water Research, Norway*

TH320 | Development of an Adverse Outcome Pathway for cardiotoxicity mediated by the blockade of L-type calcium channels | **Luigi Margiotta-Casaluci**, *Brunel University London, UK*

TH321 | Quantification of AOP by Bayesian network modelling: Linking 3,5-DCP exposure to adverse outcomes in *Lemna minor* | **Jannicke Moe**, *Norwegian Institute for Water Research (NIVA), Norway*

TH322 | Development of Quantitative Adverse Outcome Pathway (AOP) of Pulmonary Fibrosis with Effectopedia | **Nivedita Chatterjee**, *University of Seoul, South Korea*

TH323 | Exploring Potential of Knowledge Databases for Adverse Outcome Pathway Discovery | **Chih Lai**, *University of St. Thomas, USA*



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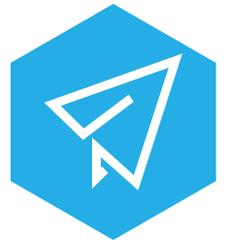


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Get more information

Join us for an information session on Tuesday and Wednesday 5:15 p.m. – 5:45 p.m. in Meeting Room 3

Or ask you questions directly at the SETAC square on Wednesday and Thursday during the morning coffee break (10:05 a.m. – 10:50 a.m.).

SETAC SQUARE

Come to the SETAC Square and enjoy a range of activities:



Reddit Ask Me Anything

Monday, 14 May | 2:00 p.m.–6:00 p.m.

Join us at SETAC Square and be part of our Reddit Ask Me Anything platform to answer questions online to anyone in the world curious about our science! There is no experience required! Bring a cup of coffee and a sense of humour and use this opportunity to get to know some of the bright young researchers working in the Society!

The Reddit platform encourages discussion and facilitates outreach while bridging the gap between practising scientists and the general public.



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Sunday–Thursday

Take a picture with your friends at our photo booth. A fun, free take-away gift to bring with you back home!

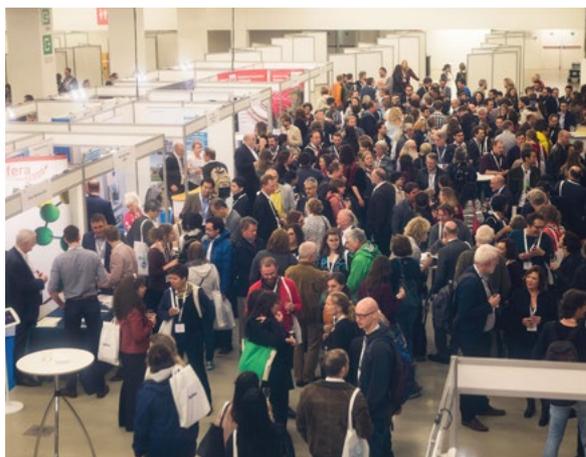
Every day at the SETAC Square.



Certification of Environmental Risk Assessors

Wednesday and Thursday | 10:05 a.m.–10:50 a.m.

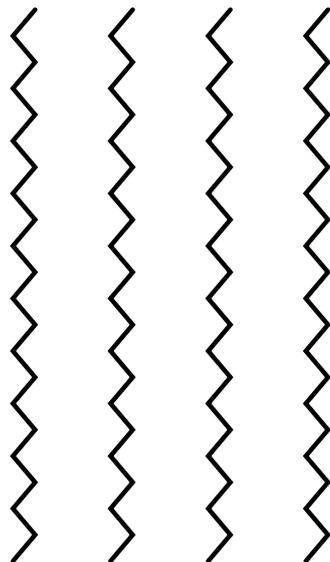
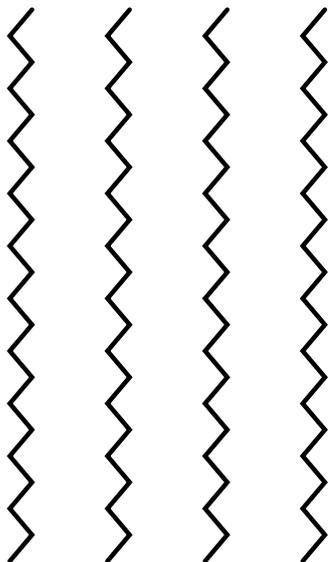
Find out more about the Certification of Environmental Risk Assessors (CRA) programme! Get more information about the programme, requirements, enrolment or find a mentor.



EXHIBITON HALL

Poster
Corner 7-16

Poster
Corner 17-22



Poster
Area

Poster
Corner 1-6

Poster
Corner 23-28

11	12
9	10

23	24
21	22

39	40
37	38

55	56
53	54

57
58

7	8
5	6

19	20
17	18

35	36
33	34

51	52
49	50

59
60

3	4
1	2

15	16
13	14

31	32
29	30

47	48
45	46

61
62

27	28
25	26

43	44
41	42

63
64



ENTRANCE

EXHIBITORS

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25+27	Agilent	
42	Agrochemex	
35	AquaBioTech Group	 
47	Arcadis	
12	ARCHE Consulting	 
28	BioChem agrar GmbH	
62	Biotechnologie BT	
24	Blue Frog Scientific	 
55	Cambridge Environmental Assessments	
64	Cambridge Isotope Laboratories, Inc.	
45	Cefas	
6+8	CEHTRA/KREATiS	
49	CEM Analytical Services Ltd (CEMAS)	
11	Charles River	
48	Chemex	
50	Chemical Risk Manager from Chemical Watch	
63	Chemical Research 2000	
56	Chemservice Srl controlli e ricerche	
7	Computational Biology Facility	
22	ECT Oekotoxikologie GmbH	
9	ENVIGO	
10	EPP	
52	ERM	
38	Euro Chlor (Cefic)	
21+23	Eurofins / EAG Laboratories	 
60	EUROLAB SRL	
40	European Chemical Industry-LRI Programme	
54	European Chemicals Agency	
20	Exponent	

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19	Fera Science	 
53	Frontiers in Environmental Science	
46	i2LResearch	
39	ibacon GmbH	
26	Innovative Environmental Services (IES) Ltd	
4	IPO Branch Pszczyna	
30	JRF Global	
61	LABORATOIRES DES PYRENEES ET DES LANDES	
5	Loligo Systems	
14+16	MICROBIOTESTS INC. / ECOTOX LDS / EBPI	
18	new_diagnostics	
29	Noack Laboratorien GmbH	 
51	Ramboll	
41	RIFCON	
57	Royal Society of Chemistry	
13	Scymaris	 
43	SGS Group	
1+2	Smithers Viscient	 
44	Springer	
32	Symbiotic Research	
31	Syngenta	  
34+36	SynTech Research	
59	TECOmedical AG	
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37	Toxi-Coop	
17	ToxRat	
3	VIEWPOINT BEHAVIOR TECHNOLOGY	
33	wca	 
58	Wiley	

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SETAC EUROPE JOB EVENT

Wednesday, 16 May | 8:00 a.m.–11:15 a.m. | Meeting Room 11

Exhibitors with the following symbol are participating in the Job Event, but they are also happy to discuss career possibilities with you in their booth. Do not hesitate to approach them!



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- ▶ Applications for Authorisation
- ▶ SEA /CSA
- ▶ CHESAR/IUCLID

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- ▶ Active substance and product renewals
- ▶ National addenda
- ▶ FOCUS/workers/consumer exposure modelling and higher tier risk assessments

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- NTA's
- Soil organisms
- SMO
- NTP vv/se in glasshouse
- Aquatic organisms
- Degradation studies
- Large scale field studies
- Residues on insects
- Insect breeding of NTA's
- Insect determination services

Analytical chemistry

- Residue analysis (soil, water, plants)
- Soil characterisation/classification
- Quality of harvest products
- Agricultural/Environmental analysis

Field trials

- EU GLP plant and soil residue trials
- EU GEP efficacy trials
- Processing studies
- Variety evaluation
- Rotational crops
- GMO testing
- Marketing trials
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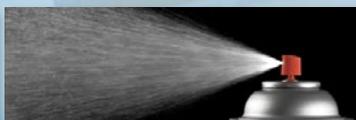
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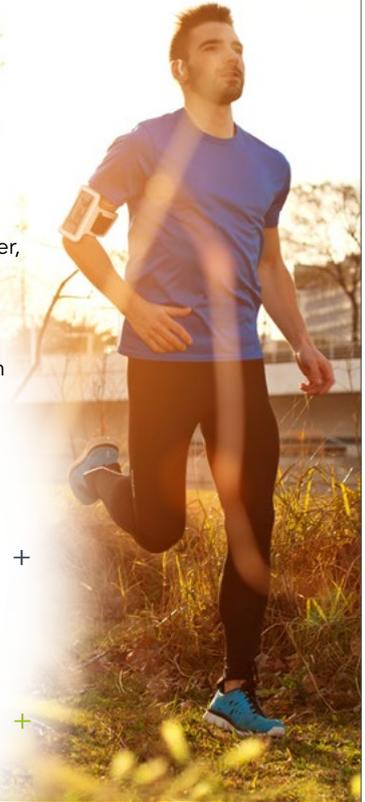
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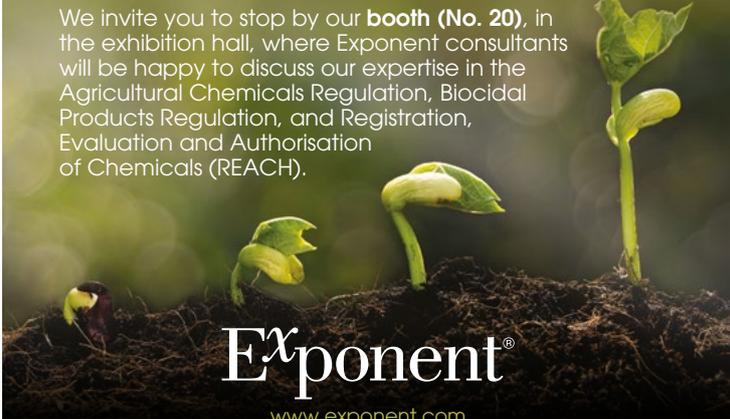


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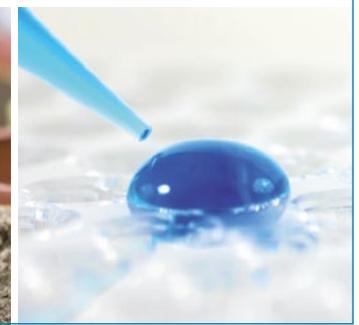


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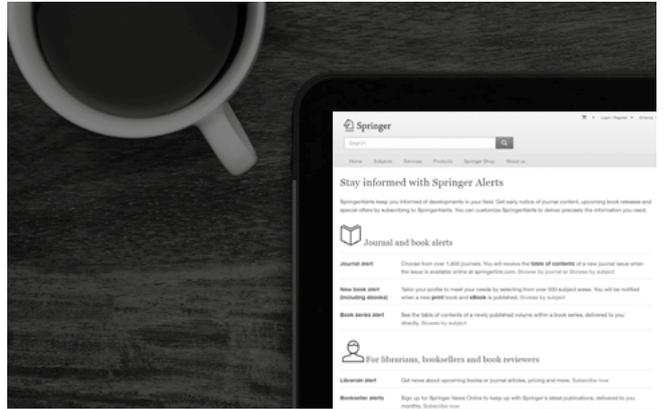
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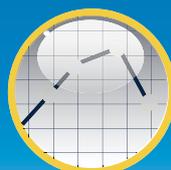
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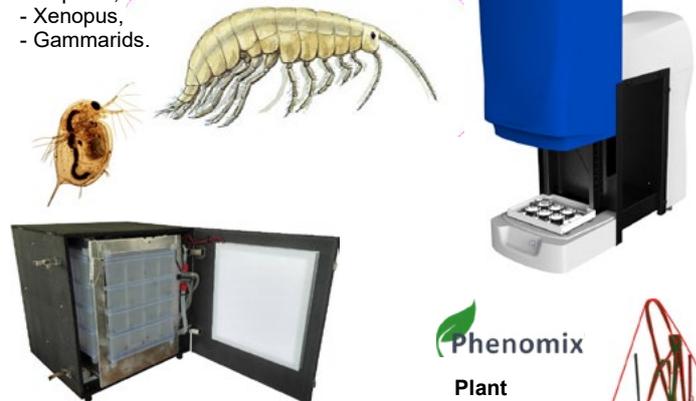
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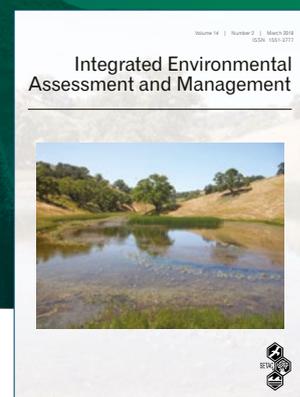
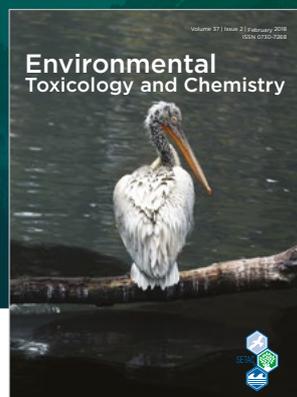


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A

- Aagaard, Alf. TU271
Aalizadeh, Reza. 239
Abad, Esteban. WE399
Abara, Priscila. MO216 , TU065
Abbaci, Khédidja. 230, 232
Abd Elgawad, Hamada. 84
Abdelraheem, Wael. MO293
Abdou, Melina. TU070
Abdul Aziz, Nur Izzah Hamna. TU236
Abdulsalam, Khadijat. WE094
Abel, Sebastian. 381
Abelli, Luigi. TH004
Abessa, Denis. TU135
Abrahamnsen, Per. TH171
Abrantes, Nelson. 278, MO059, TU153
Abreu, Sizenando. 269, MO340, MO355, WE385
Abril, Meritxell. 655
Abu, Abdul. WE373
Acanfora, Floriana. WE387
Acayaba, Raphael. MO135
Accoroni, Stefano. 654
Acevedo, Pelayo. TU117
Achten, Wouter. 317
Ackermann, Juliane. WE055
Acquavita, Alessandro. MO334, MO346
Acuña, Vicenç. 310, WE326
Adam, Catherine. MO210
Adam, Véronique. TH087
Adams, Jessica. MO401
Adams, Merrin. 613, WE185
Adams, William. 216, TU376
Adebayo, Princewill. MO238
Ademollo, Nicoletta. MO301, TU241, WE033, WE035, WE037, WE038, WE112, WE117
Adesoye, Olapeju. TU062
Adjei-Kyereme, Yaw. 334
Adjero, Lawrence. MO216
Adriaanse, Pauline. 26, MO048, MO122
Adrian, Philippe. MO152, MO450, TU293
Affek, Katarzyna. WE318
Afonso, Ana. 657
Agalou, Manto. MO250
Agatz, Annika. 397, TH297, WE007, WE359
Agert, Jutta. 3
Agostini, Alessandro. TU261
Aguar Vieira, Leonildes de Jesus. WE433
Agusiegbe, Udochi. 456
Ahel, Marijan. 79, MO292
Ahlheim, Joerg. TH215, TH216
Ahmed, Daniyal. TU258
Ahonen, Tiia. MO324
Ahrens, Lutz. TH097
Ahtiainen, Jukka. TH091
Ahting, Maren. MO375, MO377
Ahur, Victor. TU361
Ahvo, Aino. MO004, MO017, MO029, MO034
Aimola, Giorgia. TU242
Ait-Aissa, Selim. 633, MO249, TH209
Aitasalo, Tuomas. WEP08
Aitken, Michael. 191
Ajao, Charmaine. 483, 486, 549
Ajayebi, Atta. WE258
Akcha, Farida. TH003
Akhtar, Evana. TU077
Akkanen, Jarkko. 381
Al Sid Cheikh, Maya. MO329, TH023, TH024, WE412
Alanära, Anders. 200
Alba Perez, Ana. TH226
Albendín, Gemma. TH019, WE208
Albentosa, Marina. 157, 650
Alberdi, Jose. MO412, WE076, WE168, WE170
Albergamo, Vittorio. 370
Albers, Ariane. 626
Alberti, Luca. TU259, TU260
Albrecht, Dinah. 433
Albrecht, Mirko. 158, 159
Alcaide, Vicente. 30
Alcaraz, Alper James. 108, MO263, WE293
Alcaraz, James. 634
Aldaco, Rubén. WE261
Aldazabal, Xavier. TU372
Aldershof, Saskia. 494, TH122, WE366, WE367
Aldrich, Annette. 26, MO044, MO051
Aldworth, Jeremy. MO123
Ale, Analía. WE302
Aleksandryan, Anahit. 386, MO347, WE060
Alessandroni, Claudia. TU417
Aleström, Peter. WE296
Aleva, Rosa. 530
Alfarhan, Ahmed. 391
Alimonti, Alessandro. TU358
Alix, Anne. 1, 329, TH233, TU044
Allabashi, Roza. TU024
Allard, Gayatri. 669
Allen, Catherine. MO298, MO299
Allen, Joel. TH160, TH190
Allen, Lisa. TH238
Allen, Marie. TU339, WE373, WE389
Allen, Michael. 107
Allgeier, Stefanie. MO045
Allinson, Mayumi. TU331
Alliot, Fabrice. 227, 286, MO312, MO444, TH108, TU306, TUPC21
Allmon, Elizabeth. MO015
Almaas, Kjersti. MO318
Almeida, Ana Catarina. MO406, WE202
Almeida, Luana. WE360
Almeida, M Inês. MO273
Almeida, Paola. 217
Almeida, Salomé. WE286
Almeida Vinagre, Pedro. TU130
Almira-Casellas, Maria. WE308, WE426, WE427
Almroth, Bethanie. TH030
Almunia, Christine. 477
Alonso, Angel. WE167
Alonso, Covadonga. WE344
Altenburger, Rolf. 171, 240, 298, 300, 551, WE300
Alter, Michael. TH239
Altin, Dag. 163, MO031, MO032, TH016
Altmann, Korinna. 220
Altmayer, Bernd. WE092
Alvarenga, Paula. 277, TU313, WE277
Alvarenga, Rodrigo. 135, 318, 499, TU214
Alvarez, Lara. WE259
Alvarez, Tania. 558
Álvarez Caero, María Mercedes. TH277
Álvarez-Ospina, Natalia. TU117
Alvarez-Rogel, Jose. TU300, WE270, WE332
Alvarez-Ruiz, Rodrigo. 391, WE136, WE138
Alves, Alan. TU052
Alves, Joana. MO083
Alves, Maria. TU332
Alves, Obede. WE171
Alves, Ricardo. 428, MO046, MO345
Alves, Romulo. MO005, TU332
Alves da Silva, António. MO083
Alves Dos Santos, Alejandro. MO007
Alyemeni, Mohammed. 391
Alygizakis, Nikiforos. 239
Alzualde, Ainhoa. TH063, TH225
Amante, Beatriz. TU222
Amaral, Sofia. MO138
Amarante Jr, Ozelito. TU413
Amarawansa, Geethani. 635
Amariei, Georgiana. TH002, WE010, WE320
Amaris, Zoe. 41
Amato, Elvio. 507, WE183, WE184, WE192
Amaudrut, Sarah. WE191
Ambrosone, Cristina. TU417
Amelung, Wulf. 487
Amenta, Valeria. WEP08
Amici, Marina. TU012
Aminot, Yann. 460, 526, WE399
Amor, Ben. MO093
Amores Barrero, Maria Jose. TU229
Amossé, Joël. 352, 556, MO201
Amouroux, David. MO333
Amposah-Offeh, Michael. MO183
Amsel, Kristin. TU045
Amyot, Marc. 636, MO333
Amzil, Zouher. TH177
An, Somin. TU098
An, Youn-Joo. TH009, TH135, TH136, TH197, TU149, WE158, WE159, WE160, WE409
Anacleto, Patrícia. 428, MO345, WE329
Anakabe, Eneritz. 389, MOPC20
Anako, Osita. MO002
Anastas, N. MO098
Anastasi-Papathanasi, Natalia. WE306
Ancona, Valeria. TU242, TU243
Ancora, Stefania. 27, 406, MO085, TU363, WE302
Andersen, Henrik. 77
Andersen, Tom. 348, TU304, WE331
Anderson, Kristy. 635
Andrade, Alana. MO267
Andrade, Elena. WE222
Andrade, Thayres. MO267, MO268
Andrade-Garda, José. TU176, TU190
André, Chantale. TU181
Andre, Markus. TU266
Andreuou, Fytoula. MO413
Andres, Sandrine. 304, MO214, TH196
Andrés Costa, Maria Jesús. MO213, MO306, WE136, WE138
Andreu, Vicente. MO306
Andreu-Sánchez, Oscar. MO379
Andrews, Paul. WE007
Andrews, Richard. 5
Andrioli, Nancy. TU425
Anelli, Simone. TU366
Anger, Philipp. MOPC07
Angrish, Michelle. 599
Anika, Silvanus. TU361
Ankley, Gerald. 241, 598, 602, MO159, MO193, MO256, MO259, TH034
Anlanger, Christine. TU027
Antczak, Philipp. 168, 475
Antezana Fernández, Henry. TH277
Anthe, Mechthild. MO373
Antico, Enriqueta. MO273
Antiguedad, Iñaki. TU034
Antonelli, Marzia. MO079
Antonini, Camilla. TU319
Anumol, Tarun. MO281
Apel, Christina. 70, MO445
Apell, Jennifer. WE064
Apenova, Nancy. WE293
Apitz, Sabine. TU386, WE268
Appeltauer, Andreas. WE384
Arambourou, Hélène. 232
Aranda, Vanessa. WE208
Arantes, Romulo. TU380
Araujo, Cristiano. WE404
Araujo, Giuliana. TU135
Araujo, Mario. 167
Aravantinou, Adriana. MO413
Arcangeli, Caterina. TH094
Arellano, Juana María. TH019, WE208
Arena, Maria. 559, 658, MO057, TH156
Argyropoulos, Iraklis. TH182
Arias, Carlos. 390, 82
Arias, Mijail. 217
Arijs, Katrien. 99, MO410, TH081
Aristizábal Zuluaga, Beatriz Helena. TU408
Ariyoshi, Tadashi. WE317
Arizono, Koji. MO173
Arjmand, Firoozeh. 189
Arjmand, Firoozeh. TU256
Arlt, Volker. 526
Armato, Caterina. TU258
Armbrust, Kevin. TU122, TU427, WE207
Armengaud, Jean. 477
Armiraglio, Stefano. TU366
Armitage, James. 346, 568, 665, TH040, TH043, TH259, TU360
Armstrong, Mikayla. MO272
Arnador-Munoz, Omar. TU408
Arning, Jürgen. MO185, TH053, TH054
Arnold, Kathryn. 205, MO073, TU010, TU330
Arnot, Jon. 337, 396, 553, 568, 642, 664, 665, TH040, TH041, TH043, TH259, TU360
Aro, Rudolf. WE126
Arp, Hans Peter. 125, 223, WE071, WE073
Arrandale, Victoria. TH244, TU369
Arrhenius, Asa. 301
Arroja, Luís. MO105
Arsac, Paul. TH228
Artal, Mariana. WE190
Arts, Gertie. TH275, TU418, TUPC01, WE155, WE164
Aruoja, Villem. TU021
Asbach, Christof. TH084
Ascagni, Miriam. WE305
Asemave, Solomon. TH267
Ashauer, Roman. 297, 302, 397, 558, 600, MO166, MO356, TU201, WE359
Ashford, Jenna. WE389
Askanian, Haroutioun. TU164

Asker, Noomi. MO008, TH007
 Asmonaite, Giedre. TH007, TH021, TH022
 Asplund, Lillemor. 8
 Assano, Patrícia. TU114
 Asselman, Jana. 473, WE281, WE296
 Assuncao, Marta. 429
 Astrin, Jonas. 608
 Astrup, Thomas. 15
 Astudillo, Juan. MO012
 Athanasiou, Dimitrios. 272, WE423
 Athanassiadis, Ioannis. 8
 Atwood, Elizabeth. TU154, TU155
 Aubakirova, Bakhyt. WE118
 Aubee, Catherine. MO049
 Aubert, Dominique. 515
 Auclair, Joelle. TU181
 Aufderheide, Michaela. 285
 Auffan, Mélanie. 528
 Augspurger, Thomas. WE274
 Auguste, Manon. WE314
 Augustin, Jürgen. MO393
 Augustine, Starrlight. MO357
 Aulenta, Federico. 190, TU257
 Aulhorn, Silke. 667
 Aureliano, Daniel. MO260
 Arouet, Axel. MO296
 Auteri, Domenica. 327, 658, MO057, TH156
 Avagianos, Christos. TH162, TH181
 Avasîlcăi, Liliana. MO310
 Avdalovic, Jelena. MO020, TU279
 Avino, Pasquale. 285
 Avio, Carlo. TH027
 Avşar, İrem. TH223
 Awuah, Fred Kobby. 274
 Ayobahan, Steve. 52
 Ayuso, Silvia. WEPC28
 Azad, Atabak. 120
 Azdajic, Mija. MO344
 Azevedo, Amaro. TU413
 Azevedo, Ligia B. MO221, WE365
 Azimonti, Giovanna. 1, MO130, TH233
 Aziz, Azivy. 44
 Aït-Aïssa, Selim. 240

B

Baas, J. TU180
 Babica, Pavel. TH186, TH187
 Babut, Marc. MO240, TH110, TH111, TH241, TH242
 Baccaro, Marta. 95
 Bacchetta, Renato. TU188
 Bacchi, Manuele. 189
 Bacenetti, Jacopo. TU395
 Bach, Vanessa. 318
 Bachmann, Jean. 455, WE023
 Bachmann, Till. WE266
 Baciocchi, Renato. 193
 Backhaus, Thomas. 300, 301, 311, 324, 462, 550, 551, 554, TH294, TH295, TU032
 Badawi, Nora. 245
 Baderna, Diego. TU399, WE042
 Badetti, Elena. 325, TU090
 Badjah-Hadj-Ahmed, Yacine. MO454
 Bado-Nilles, Anne. WE361
 Baek, Min Jeong. TH271
 Baena-Nogueras, Rosa María. 20, WE109
 Baets, Dirk. MO137, TH272
 Bagnati, Renzo. WE042
 Bagnis, Simone. 511, WE087

Bagnuolo, Giuseppe. TU169
 Baho, Didier. 426, WE353
 Bahramifar, Nader. MO390
 Bai, Fan. MO443
 Baik, Seungyun. TH201
 Bailey, Gwendolyn. WE260
 Baillard, Vincent. WE154, WE368
 Baini, Matteo. 416
 Bairy, Afonso Celso Dias. MO064, MO079, TU127
 Baird, Donald. 362
 Baitz, Martin. TU101
 Baiyeri, Samuel. TU418
 Bajagain, Rishikesh. WE430
 Bajema, Bernard. 24
 Baken, Kirsten. 573, WE077
 Baken, Stijn. TU078, TU079, TU199, WE340
 Baker, Keith. 440
 Bakke, Torgeir. 46
 Bakker, Frank. 187, 494, TH122, TH128, TH147, TU378, WE366, WE367
 Bakker, Martine. TH089
 Bala, Alba. 566, WE261, WEPC28
 Balaguer, Patrick. MO249
 Balakrishnan Nair, Gireeshkumar. MOPC08
 Balayan, Alla. WE215
 Balbi, Teresa. WE314
 Baldi, Isabelle. TU423
 Baldini, Cecilia. TU395
 Baldoni-Andrey, Patrick. WE209
 Baldwin, Nicole. MO263, WE293
 Balk, Froukje. WE388
 Ball, Nicholas. 265
 Ballestero, Diego. MO040, TU348, TU349, TU350
 Balmer, Marianne. MO146
 Balsa-Canto, Eva. 355
 Balsaa, Peter. TU318
 Balshaw, Sita. MO341
 Balta-Ozkan, Nazmiye. WE234
 Balugani, Enrico. MO103
 Balzamo, Stefania. 615
 Bandeira, Otniel. WE171
 Bandow, Nicole. WE422
 Bani, Luciano. MO220
 Bank, Michael. 120
 Banni, Mohamed. 460, 526
 Bannick, Claus-Gerhard. 220, MO322
 Bao, Lian-Jun. TU391, TU396, TU414
 Baptista, Ivana. WE288
 Baptista, Miguel. WE329
 Bär, Susanne. 555
 Baran, Nicole. 3
 Barata, Carlos. 232, 293, 537, MO055, WE027, WE351
 Barata, Raissa. TU332
 Barausse, Alberto. MO367
 Barbarossa, Valerio. 394
 Barber, Ian. 497
 Barbieri, Maria Vittoria. MOPC21
 Barbosa, Jorge. WE100, WE107
 Barbosa, Mélanie. 535
 Barbosa, Miguel. 204, WE327
 Barbosa, Vera Liane. 428, MO345
 Barbosa Xavier, Maria Flavia. WE137, WE288
 Barboutis, Christos. MO065
 Barceló, Damià. 138, 139, 156, 22, 391, 451, 452, MO309, MO311, TH202, TH291, WE129, WE398, WE399
 Bardow, André. 259, TU097
 Bare, Jane. MO093, MO098, MO102

Bargagli, Roberto. TU363
 Barga, Holger. TU041
 Barghi, Mandana. TUPC18
 Barker, Gary. WE316
 Barkhatova, Oksana. WE215
 Barmaz, Stefania. 658, MO057, TH156
 Barmentlo, Henrik. 364
 Barna, Ligia. TU102
 Barnett, Libby. MO070
 Baron, Matthew. 459
 Baroux, Lucie. TU283
 Barra, Ricardo. 111, TU413
 Barra Caracciolo, Anna. 446, MO208, TH164, TU241, TU242, TU243, TU244, WE033, WE034, WE035, WE038, WE039, WE040, WE041, WE112, WE117, WE175
 Barranger, Audrey. 460, 526
 Barrera Escorcía, Guadalupe. TU073, TU309
 Barrera Villa Zevallos, Hector. MO342
 Barret, Aurelie. TH280, TU293
 Barreto, Ângela. TH015
 Barrett, David. MO313, WE109
 Barrick, Andrew. 589
 Barron, Emmanuelle. TU423
 Barron, Leon. TU112, WE088
 Barron, Mace. 105, 170, 552, MO165, MO194, WE362
 Barros, Diana. 461
 Barros, Paulo. MO083
 Bars, Chloé. MO259
 Bart, Sylvain. 352, 556, MO201
 Bartalini, Alice. MO063
 Barthel, Yves. 249
 Bartolome, Nora. MO199
 Bartolomei, Vincent. 590
 Bartonková, Iva. 631
 Bartram, Abigail. TU381, WE259
 Baschien, Christiane. TU028
 Basile, Annamaria. TU243
 Basili, Danilo. 168
 Basirico, Laura. 101, TU122, WE207, WE325
 Baskaran, Sivani. 346
 Bastide, Therese. TU111
 Basu, Nil. MO263, WE293, WEPC15
 Batel, Annika. TU310
 Batke, Monika. WE390
 Batley, Graeme. 305
 Batlle-Bayer, Laura. WE261
 Battes, Karina. 365
 Baudin, Nastasia. TU291
 Baudoin, Patrick. WE361
 Baudrimont, Magalie. 410, 491, MO087, MO330, WE297
 Baudrot, Virgile. 150, 350
 Baudy, Patrick. TU023, TU028, WE105, WE176
 Bauer, Christian. MO389
 Bauer, Franklin. MO172, MO370
 Bauerlein, Patrick. 218, 24
 Baumann, Lisa. 662, TH054
 Baumann, Manuel. TH308, TU215
 Baumgartner, Caroline. TH217
 Baumgartner, Karl. 41
 Baun, Anders. 527, TH011, TH082, TH083
 Baustert, Paul. WE234
 Bavasso, Irene. 445
 Baveco, Hans. 345, 356, 357
 Bayen, Stéphane. MO284, MO439, WE342
 Bayer, Herbert. MO120
 Bayerle, Michael. 137, MO127, MO276

Bayona, Yannick. 617
 Bazok, Renata. 560
 Beasley, Amy. 170, 552, MO165
 Beasley, Anna. TU335
 Beaudouin, Rémy. 154, 668, TH110, WE361
 Beaugard, Charles. TU405
 Beaugelin-Seiller, Karine. TH285
 Beaussier, Thomas. 144
 Bec, Alexandre. TU298
 Bečanová, Jitka. 21, TH102
 Beccaloni, Eleonora. 446
 Beccaloni, Massimiliano. TU316
 Bechmann, Renee. WE205
 Beck, Birgit. 365
 Beck, Horst. TH249, WE127
 Becker, Anja. MO184
 Becker, Claes. TU320
 Becker, Jeremias. 233
 Becker, Jesse. 329, TU044, TU049
 Becker, Roland. TU039, TU040
 Beckers, Liza-Marie. 19, 572
 Beckmann, Marion. MO148
 Bednarska, Agnieszka. 91, MO398, TH145
 Beekhuijzen, Manon. MO228, MO229
 Beghi, Andrea. TU029
 Begnaud, Frederic. 571, TH212, WE046
 Bégout, Marie-Laure. 649, TU186
 Behnisch, Peter. 240
 Behra, Renata. 301, TU186
 Beiras, Ricardo. MO060, TH222, TU109, TU133
 Beis, Dimitris. MO250
 Beisenova, Raikhan. WE118
 Bejar, Michelle. 272, WE423
 Belamy, Tiare. MO087
 Belanger, Scott. 170, 270, 552, 598, MO165, MO180
 Belarbi, Rafik. WE220
 Belboom, Sandra. MO095
 Belgers, Dick. WE195
 Belizario, Fernanda. MO388
 Belkin, Shimshon. TH061
 Bell, David. 289
 Bellamoli, Francesco. TU334
 Bellaria, Vanessa. WE381
 Bellas, Juan. 650
 Bellec, Julie. 410
 Bellés, Montserrat. TU389
 Bellin, Alberto. 424, 427
 Bellingeri, Arianna. 382
 Bellisai, Giulia. 151
 Bello, Isah. WE094
 Bello-López, Miguel Angel. WE102
 Bellucci, Francesco. TU128
 Belpaire, Claude. MO451
 Beltman, Wim. MO122, TH275
 Beltran, Estelle. MO450
 Benaisa, Nadhira. MO094
 Bendall, Julie. TH124, TH155
 Bender, Katrin. TH273
 Bending, Gary. TU291
 Benedetti, Paolo. TU244
 Benezam, Tom. WE187
 Benetti, Daniel. 161, 162, 164, 165
 Benetto, Enrico. 195, 374, TU102
 Benfenati, Emilio. MO185, TU399, WE042
 Bengoa, Xavier. 377, 500, TU234, WEPC27
 Benini, Lorenzo. MO093
 Benito, Maria. MO066
 Benner, Lena. MO449
 Bennett, William. WE184
 Benoist, Anthony. 626

Benstead, Rachel. 186, WE359
Benveniste, Gabriela. TU222
Beretta, Gabriele. TU255
Berezniak, Tomasz. 588
Berg, Cecilia. 26, MO044, MO051
Berg, Sanne. 268
Bergami, Elisa. TH013, TH014
Berger, Elisabeth. WE273
Berger, Markus. 318, MO093
Berger, Stella. WE357
Berggren Kleja, Dan. TH097
Berglund, Olof. WE282
Bergmann, Melanie. MO440
Bergtold, Matthias. TU049
Berico, Massimo. 284, 285
Berkeley, Andrew. WE203
Bermejo-Nogales, Azucena. MO379, TH092
Bernard, Marion. TH250
Bernarello, Valentina. WE341
Bernhardt, Emily. 121, TU014
Bernstein, Sarah. TU369
Berntsen, Hanne Friis. TH298
Berny, Philippe. 175, 26, MO457
Berrojalbiz, Naiara. 125, 223
Berthaud, Fabienne. 571, TH212, WE046
Berti, Beatrice. TH304
Bertin, Julien. WE379
Bertin, Thomas. MO211
Berto, Daniela. WE341
Bertoni, Georges. 45
Bertram, Michael. 201, TU324
Bertucci, Anthony. 410, WE297
Bertylkamp, Cheryl. MO287
Bérubé, Virginie. MO030
Bervoets, Lieven. 84, MO451, TH099, TH268, TU084, WE183, WE192
Berzosa, Joan. WE235
Beškoski, Vladimir. TU273
Besnard, Aurélien. 210
Besseau, Romain. 146
Bester, Kai. 390, 77, 82, MO290, MO371, MO372, MOPC22
Betancor, Keila. 525
Betoulle, Stéphane. 515
Bettinetti, Roberta. MO446, TH107, TU138
Betz, Alexander. 415, WE307
Betz, Sarah. MO038
Beulke, Sabine. MO119, WE354
Beuse, Martin. MO389
Beusen, Arthur. MO108
Beyer, Corinna. WE378
Beyer, Jonny. 46, MO332, MO380
Beylich, Bjørnar. 469, MO380, MOPC24
Bezuidenhout, Carlos. TH141
Bi, Siqi. 65
Bianchi, Nicola. 27, MO085, TU363, WE302
Bianchi, Virginia. WE345
Bianchi, Viviane. TU292
Bianchini, Adalto. 643
Bianchini, Kristin. 83
Bicego, Marcia. TU127
Bicherel, Pascal. MO172, TH280
Bieber, Stefan. 368, MO280, WE149
Biecker, Melanie. WE015
Biegel-Engler, Annegret. MO185, TH114, TU345
Biel, Miriam. 20
Bielmyer-Fraser, Gretchen. WEPC12
Bielská, Lucie. MO121, MO200, TH146, TH148, WE432
Bielska, Lucie. TU421
Bier, Andrea. MO183
Bier, Raven. TU269
Bierkens, Johan. 226
Biganzoli, Fabrizio. 267, TH282, TH283, TU006, TU007
Bigler, Franz. TU379
Bignert, Anders. 604
Bigot-Clivot, Aurelie. 515
Bilbao, Dennis. MO010
Bilec, Melissa. 228, MO115, WE221
Bílková, Zuzana. TU421
Billau, Kevin. TU202
Bille, Laura. TH178
Billoir, Elise. 474, TU299, WE154, WE368
Billon, Gabriel. MO349
Bimbot, Maya. 227, 612
Binaglia, Marco. 657
Binder, Michael. WE265, WEPC25
Binelli, Andrea. MO243, TU181, WE305
Bing Heng, Lee. WE142
Bini, Luca. WE305
Binks, Steve. TH238
Bir, Joyanta. MO029
Birch, Gavin. 309
Birch, Heidi. 66, 67, MO436
Birgersson, Lina. TH055
Birk, Sebastian. 357, 358, 359
Birkved, Morten. TU230
Birrner, Simone. 309
Birstingl, Jeremy. 189
Bisceglie, Franco. TU353
Bischof, Ina. MO158, TH042, WE046
Bishop, Christine. 174, MO456
Bisinella, Valentina. 15
Bisova, Katerina. TU018
Bissagou Koumba, Gaëlle. TU164, TU192
Bisschop, Liselot. TH245
Bitragunta, Siva Prasad. 463
Bitsch, Annette. WE390
Bittebiere, Anne-Kristel. WE154
Bittermann, Kai. WE045
Bizarro, Diana. 439
Bizzotto, Elisa. 43, TU382
Björlenius, Berndt. 514, WE083
Bjørgan, Marie. 582
Blackburn, Richard. 263
Blackwell, Brett. MO159
Blaha, Ludek. TH173, TH179, TH274
Blahova, Lucie. TH179
Blainey, Mark. 264
Blair, Reina. TU157
Blais, Jules. 106, 407, 645, MO344
Blanc, Isabelle. 146
Blanc, Melanie. MO254
Blanchoud, Helene. MO312
Blanco, Maria. 538
Blank, Martin. 242, 243, 244, 246
Blankert, Bastiaan. 370
Blasco, Julian. TH037
Blasco Moreno, Julian. WE102, WE404
Blazquez, Maria. MO379
Bleeker, Eric. TH088, TU091
Bleich, Alex. MO006
Blengini, Gian. 623
Blewett, Tamzin. 213
Blinova, Irina. TU120
Bloch, Robert. MO285
Bloisi, Domenico. TU024
Blom, Richard. WE405
Bloor, Michelle. WE111
Blosi, Magda. 320
Bluhm, Kerstin. MO162, MO252, MO263, WE293
Blum, Jason. TU024
Blumberg, Bruce. WE030
Blumenröder, Julian. 523
Blust, Ronny. 12, MO256, MO451, TH268, TH269, TU084, WE183
Blye, David. TH255
Boaes, Daniela. TH220
Bobba, Silvia. 623
Bocca, Beatrice. TU358
Bochow, Mathias. TU154, TU155
Bock, Michael. 43
Bocksch, Sigrun. TU055
Bodar, Charles. 322
Bodini, Sergio. 653
Bodoque, José-Maria. TU034
Boegi, Christian. TU275
Boehm, Achim. TH239
Boelaert, Frank. 657
Boerwinkel, Marie-Claire. WE195
Boesten, Jos. 4
Bogart, Sarah. 489, WE272
Bogdanowicz, Wieslaw. 407
Bohlin Nizzetto, Pernilla. 607, TU408
Böhm, Paul. TH215, TH216
Böhme, Alexander. MO170, MO184, MO188
Böhnhardt, Anna. 373
Boitsov, Stepan. TU011
Boivin, Arnaud. 3, 617, MO144, MO146, TU265
Bojadzija, Gorenka. 593
Bojanic, Natalia. 123
Bolekhan, Anastasiia. MO124, MO155
Bolinus, Damien. 332
Bollmann, Ulla. 390, 77, MO290, MO371, MO372
Bolonio, David. MO351
Boltes, Karina. WE010, WE320
Bona, Irene. TU256
Bonaiuto, Emanuela. WE121
Bonasoro, Francesco. TU181
Bonato, Marco. WE075
Bondar, Alexander. WE218
Bondarenko, Elena. WE056
Bonetta, Sara. 287
Bonetta, Silvia. 287
Bonetto, Alessandro. 325, TU090
Bonfanti, Andrea. TU399
Bönlökke Adamsen, Peter. TU320
Bonnaud, Bertille. TH251
Bonnefille, Benilde. 411
Bonnell, Mark. 170
Bonnineau, Chloe. TU025, TU030
Bonnomet, Vincent. 432
Bonoli, Alessandra. 622
Bonometto, Andrea. TU319, WE275
Bontempi, Rhaissa. WE249
Bony, Sylvie. 230, TU111, WE191
Book, Frida. 462
Boonen, Katrien. MO109, TU216
Booth, Andy. MO031, MO318, MO319, MO415, MOPC11, TH016, TH018, WE095, WE405, WEPC21
Booth, Pieter. TU380
Bopp, Stephanie. 552
Borchers, Heidemarie. 243, 246
Bordalo, Maria. TU140, WE351
Borderies, Pierre. 45
Bordignon, Alessandro. TH315
Bordin, Paola. TH178
Bordj, Riad. MO244, MO245
Boreham, Rebekah. WEPC01
Borello, Domenico. TU243
Borga, Katrine. 348, MO035, MO036, TU011, TU038, TU304, WE331
Borges, Leandro. TU052
Borgie, Mireille. TU405
Borho, Nicole. MO372
Borin, Sara. 188, TU245, TU247, TU366
Borja, Angel. 546
Borla, Paola. WEPC23
Bormans, Myriam. 593, TH177
Borrego, Carles. 424
Borrett, Paige. MO179
Borsella, E. TH227
Bortoluzzi, Anna. TH315
Boscaro, Alessandro. WE036
Bosch, Henk. WEPC25
Bosch, Suanne. MO400
Boscolo Brusà, Rossella. TU319, WE275, WE341
Bosker, Thijs. TU180
Bossert, David. WE397
Bossier, Peter. WE360
Botha, Tarryn. MO400, TU337
Bothamy, Angélique. 304
Botnen Smebye, Andreas. TH096
Botta, Fabrizio. TU375
Bouaicha, Nouredine. MO244, MO245
Bouchet, Sylvain. MO333
Boulahtouf, Abdelhay. MO249
Boulay, Anne-Marie. 131, MO093
Boullemant, Amiel. MO336, WE434
Bour, Agathe. TH027
Bourgeon, Sophie. 28
Bourguet, William. MO249
Boutry, Delphine. 590
Boutry, Sébastien. TH250
Bouveroux, Thibaut. 12
Bouwer, Gerhard. MO400
Bouwman, Hindrik. 408, MO056, MO084, TH006, TU068, TU125, TU145
Bowman, Jessica. WE074
Boxall, Alistair. 335, 394, 397, 456, 517, TH297, TU152, TU355, WE001, WE005, WE007, WE135, WE228, WE354
Boyacioglu, Meltem. TH221
Boyle, David. 38, TH024
Braaker, Sonja. TH125, TU001
Braccino, Bernardino. TU363
Bracewell, Sally. 362, 363
Brack, Julia. TH127
Brack, Werner. 19, 233, 240, 296, 298, 300, 51, 551, 572, MO196, MO212, MO285, TH213, TH215, TH216, TU133, TU317, WEPC05
Bracquene, Ellen. 257
Bradascio, Rita. MO139, MO140, MO156, TU148
Bradford, Ben. MO215
Braga, Ana Catarina. TH176
Bragin, Gail. MO186
Brahya, Vincent. TU312
Brain, Richard. 496
Brakstad, Odd Gunnar. MO318
Bramaz, Nadine. TH041
Brambilla, Paola. WE262
Bramke, Irene. TU291
Brand, Sarel. TU337
Brand, Walter. TU091
Brander, Susanne. 109
Brands, Frans. MO108
Brandstätter-Scherr, Kerstin. MO121, MO200, TH146, TU420
Brandt, Kristian. MO371, TU026
Brandt, Ute. 455, WE023
Brandts, Irene. TH015
Braster, Martin. TU267, TU285
Brauch, Heinz-Jürgen. 247, TU264
Brauer, Michael. MO124

Braun, Ulrike. 158, 159, 220, MO322
 Braunbeck, Thomas. 662, MO241, TU310
 Bräunig, Jennifer. MO440
 Bravin, Matthieu. TH143, TH153
 Bravo, Natalia. TU358
 Bray, Jon. WE271
 Brede, Dag. TH319, WE408
 Breedveld, Gijs. 579
 Breitholtz, Magnus. 8
 Bremerich, Venessa. 359
 Brendt, Julia. MO162
 Brennholt, Nicole. TU182
 Bressi, Sara. 438
 Bretier, Marie. MO349
 Breuer, Lutz. MO125
 Briand, Enora. 593
 Briaudeau, Tifanie. MO007
 Bridges, Kristin. 104, 107, WE031
 Briels, Nathalie. MO072, MO080, TUPC20
 Brient, Luc. TH177
 Brigham, Mark. 659
 Brighty, Geoffrey. TU024
 Brill, Jessica. MO165
 Brilliet, Francois. TU281
 Brinkmann, Markus. 570, MO053, MO263, TH258, TU211, WE293
 Brion, Francois. 240, MO249
 Brix, Hans. 390, 82, MO290
 Brochot, Céline. 668
 Brock, Andreas Libonati. 68, WE059
 Brock, Theo C.M.. 509, TU379, TUPC02, TUPC06, WE195
 Brodie, Stefanie. 438
 Brodin, Tomas. 200, 203, 514, TU023, TU327, TU328, TU330
 Brodský, Lukáš. MO121, TH240
 Broll, Gabriele. TH154
 Brooks, Amy. TU339, WE373, WE389
 Brooks, Bryan. 468
 Brooks, Steven. 469, TH234, WE413
 Brorström-Lundén, Eva. 361
 Brosse, Corinne. TU030
 Brouwer, Gerjan. TU378
 Brown, Andrew Ross. 454, 93
 Brown, Colin. TU010
 Brown, David. TU096
 Brown, Justin. 611
 Brown, Lee. WE135
 Brown, Nils. TH230
 Brown, Rebecca. 583, TU314
 Brown, Steven. TU080
 Brown, Thomas. TH031
 Browne, Patience. 601
 Browning, Zac. 326
 Brox, Stephan. 53
 Brózman, Ondřej. TH187
 Brückner, Ira. WE097
 Bruehl, Carsten. MO045, MO225, TUPC01
 Bruell, Catrina. 570
 Bruening, Anika. WE048
 Brüggemann, Christian. 457
 Brüggemann, Maria. MO410, TU118
 Brulle, Franck. 617
 Brumhard, Bjoern Dr.. 244
 Brun, Nadja. TH010, TU180
 Bruneau, Mélanie. TH003
 Brunelli, Andrea. 325, TU090
 Brunelli, Laura. TU399
 Brunner, Andrea. 24, 573, MO287
 Bruns, Eric. 510, 663, MO361, MO363, WE155, WE157, WE196
 Brunsvik, Anders. MO031
 Bryan-Sallee, Colleen. 606
 Bryce, James. 438
 Bub, Sascha. 59
 Bucheli, Thomas. MO199, MO426, TH168, TH169
 Buchinger, Sebastian. 240, TH061, TH258
 Büchs, Jochen. MO162
 Buck, Annika. 86
 Bücking, Mark. TH109
 Buckova, Martina. WE421
 Budin, Kamsia. TH297
 Budzinski, Hélène. 388, 633, MO133, MO275, MO300, TH026, TH108, TH241, TH242, TU203, TU268, TU306, TU422, TU423, TUPC21, WE146
 Buelow, Elena. 471
 Buffat, René. 147
 Buffo, Angela. MO446, TH107
 Bujacek, Taylor. TU165
 Bujdud León, Aixa. mo041
 Bulatovic, Sandra. MO020
 Bulhosa, Inês. MO168
 Bulle, Cecile. 17
 Bulloch, Patrique. MO251
 Bundschuh, Mirco. 344, TU023, TU028, TUPC01, TUPC03, TUPC04, WE176
 Bundschuh, Rebecca. WE105, WE335
 Bunke, Dirk. 361
 Bunyatyan, Yurik. 386, WE060
 Buratovic, Sonja. 412
 Buratti, Franca Maria. 656
 Burkard, Michael. TH083, WE307
 Burkhard, Lawrence. TH045
 Burkhardt, Ulrich. 266
 Burkina, Viktoriia. MO247
 Burns, Emily. 335, 394, 397, TU152, WE005
 Burns, Nathan. 109
 Burte, Julien. MO094
 Burton, G. Allen. 272, 380, 358, TU078, TU080, WE423
 Bury, Nic. WE298
 Bury, Nicolas. TH041, TU112
 Busch, Wibke. 240
 Buschini, Annamaria. TU353
 Bush, Alex. 362, 363
 Bustamante, Paco. 470
 Bustnes, Jan. 211, MO036, MO072, MO080, MO081, TUPC20
 Butkovskiy, Andrii. TU228
 Butler, Emma. 268, WE290, WE292
 Butler, Josh. MO006, MO186, MO438
 Buttiglieri, Gianluigi. MO289, MOPC19
 Büttner, Elke. MO183
 Bytingsvik, Jenny. MO178
 Bækgaard, Henrik. 35

C

Caamano-Gutierrez, Eva. 475
 Caballero-Guzman, Alejandro. TH087
 Cabella, Renato. TH233
 Cabellos, Joan. WE308
 Cabral, Henrique. MO061, WE012, WE020, WE107, WE198, WE199, WE360
 Cabral, João. MO083
 Cabrera-Pozo, Inmaculada. TH019
 Cabrita, Teresa. WE020
 Caçador, Isabel. WE020
 Cacciatore, Federica. TU319, WE275, WE341
 Cáceres-Martínez, Carlos. MO176, WE032
 Cachera, Sébastien. TUPC19
 Cachot, Jérôme. 649, MOPC06, TH274, TU186
 Caciolli, Silvana. TH203, WE081
 Cadore, Solange. MO416
 Caffi, Alessandra. MO220
 Cairns, Alison. WEPC27
 Cajarville, Miren. MO010, TH025, TH026, WE323
 Çakal Arslan, Özlem. TH221, TH223
 Cakir Kieffer, Celine. MO369
 Cakir-Kiefer, Céline. 385
 Calado, Ricardo. 234
 Calado, Sabrina Loise. 516
 Calamandrei, Gemma. TU358
 Calatalyud, Fernando. MO213
 Calatayud-Vernich, Pau. MO213
 Caldas, Eloisa. MO267
 Caldwell, Daniel. WE018
 Caldwell, Gary. TH319
 Caliani, Ilaria. 27, TU128, TU426
 Calisi, Daniele. TU024
 Calvet, Marta. TU229, TU232
 Calvo-Serrano, Raul. 321, MO099
 Calzolai, Eric. TU282
 Calzolari, Simone. MO195
 Camacho, Carolina. TH176, WE329
 Camarero, Pablo. 85, 86, MO071, MO075
 Camenzuli, Louise. MO434, MO438
 Cameron, Robert. WE242
 Campanale, Claudia. TU169, TU242
 Campani, Tommaso. 27, TU426
 Campbell, Karinna. TH253
 Campbell, Peter. TU044, TU064, TU208
 Campillo, Juan. 650, TH103
 Campo Moreno, Pablo. 129
 Campos, Bruno. 293, WE294
 Campos, Isabel. MO059
 Canario, Joao. WE242
 Canepari, Silvia. 224, 229, TU370
 Canesi, Laura. WE314
 Canha, Gonzalo. TH233
 Canoira, Laureano. MO351
 Cantarel, Amélie. WE172
 Cantos, Manuel. 127
 Cantwell, Mark. TH102
 Cao, Yi. TU124
 Capanni, Francesca. MO062
 Capdeville, Marion-Justine. 388, MO300
 Capela, Nuno. 616
 Capellacci, Samuela. 654
 Capellini, Luciana. WE125
 Capitão, Ana. 535, WE029
 Capolupo, Marco. TH012
 Capowiez, Yvan. WE248, WE250
 Cappadona, Valerio. WE401
 Cappelli, Claudia Ileana. MO185
 Cappelli, Francesca. MO296, MO446, TH107, WE075, WE253
 Cappello, Simone. TH014
 Capri, Ettore. 427
 Caputo, Domenico. WE289
 Caraene, Ionut Daniel. 78
 Carapeto García, Ricardo. 32, TH261
 Caraty, Melodie. 565
 Caravanos, Jack. WE246
 Carballo, Matilde. WE106, WE108
 Carbonaro, Richard. TU078
 Carboni, Marcello. 189
 Carcelli, Mauro. TU353
 Cardenas, Jorge Antonio. WE093
 Cardis, Elisabeth. TU385
 Cardona, Dwain. MO279, MO283
 Cardoni, Martina. TU241, TU242, WE033, WE035, WE040, WE112, WE117
 Cardoso, Alexandre Nunes. WE238
 Cardwell, Allison. 216, TU376
 Carere, Mario. MO296, TH203, TU024, TU315, TU316, WE081
 Carillo, José. 86
 Carlsson, Gunnar. WE083
 Carnall, Jacqui. MO131, MO132, MO382, WE203, WE373
 Carnevali, Oliana. WE121
 Carney Almroth, Bethanie. 324, TH007, TH021, TH022
 Carniel, Sandro. TU155
 Carone, Anna. TH233, WE162
 Carotenuto, Maurizio. WE387
 Carpani, Giovanna. TU259, TU260
 Carr, Deborah. 312, TU033, WE236
 Carranza, Candy. WE167
 Carrao, Andrea. WE052
 Carraro, Elisabetta. 287
 Carrer, Marco. WE075
 Carriero, Fabrizio. 445
 Carro, Tiffany. TH124, TH155
 Carter, Laura. 335, 394, 397, TH297, WE001, WE005, WE007
 Carusi, Annamaria. 602
 Caruso, Aurore. 524
 Caruso, Enrico. MO163
 Carvahlo, Inês. WE242
 Carvalho, Patricia. 42, MO406, MO415, WE095
 Carvalho, Paulo. MO005, MO018, TU332
 Carvalho, Pedro. 390, 77, 82, MO290
 Carvalho, Raquel. 615
 Casabianca, Silvia. 654
 Casadio, Rita. MO240
 Casado-Martinez, M. Carmen. TU197, TUPC05, WE187
 Casarotto, Federica. TU138
 Casas, Mònica. 390
 Casey, Samuel. TU004
 Casilli, Alessandro. WE063
 Casini, Silvia. 111, 27, TU128, TU426
 Cassani, Florencia. WE170
 Cassee, Flemming. TU091
 Cassio, Fernanda. 461, TU123
 Castaldo, Giovanni. TH269
 Castaño, Andrea. WE344
 Castel, Lisa. TU365
 Castelan, Guy. MO387, TU101
 Castellani, Valentina. 504, TU219
 Castiglioni, Sara. WE014
 Castro, Filipe. 535, WE029
 Castro, Juan. WE345
 Castro, Mafalda. 8
 Catalano, Barbara. TU012, WE173
 Catalano, Riccardo. 590, TH090
 Catarino, Ana. MO329
 Catarino, Ana I. TH023, TH024
 Catherinot, Lise. TU282
 Catlow, Richard. TH316
 Catrambone, Maria. 224
 Cattaneo, Franck. WE191
 Catteau, Audrey. WE361
 Cattrall, Robert. MO273
 Caurant, Florence. TU295
 Cauria, Sylvain. 144
 Causse, Samuel. TH228
 Cavallin, Jenna. MO159, MO259, TH034
 Cavallo, Delia. MO418
 Cavani, Fabrizio. TH307
 Cavanna, Sonia. WE219

Cavileer, Tim. 354
 Cazzagon, Virginia. 325, TU090
 Cébron, Aurélie. TU299
 Cedergreen, Nina. 151, 231, 597, TH036, TH277, TU124
 Celic, Mira. WE129
 Cellura, Maurizio. 623
 Celly, Chander. 33
 Celsie, Alena. 7
 Cengic, Mirza. 394
 Cenian, Katarzyna. 194
 Cerdá Reverter, José Miguel. TH064
 Cerezo, Veronique. 438
 Ceriani, Lidia. TH282, TH283
 Cerkenik Flajs, Vesna. WE140
 Cerutti, Alessandro. 143, 504
 Cerveny, Daniel. WE090
 Cesari, Daniela. 284
 Cesnaitis, Romanas. 581
 Cespi, Daniele. TH307
 Cestari, Marta. MOPC03
 Chadwick, Bart. 272, WE423
 Chae, Min Hee. 449
 Chae, Yooeun. TH009, TU149
 Chagnon, Pierre. TU274
 Chai, Jjiangying. WE181
 Chakraborty, Paromita. TU290
 Chalon, Carole. TU312
 Cham, Karina. TU052
 Chambolle, Mélodie. 388
 Champ, Samantha. WE380
 Champly, Ilka. MO078
 Chamsi, Ousama. TU034
 Chan, King Ming. 630, TH066, TH072, TH264, TU167
 Chan, Yuk Hang. TH066
 Chanana, Munish. MO395
 Chandramouli, Bharat. 413
 Chang, Chin-Wei. TU390
 Chang, Dan. MO165
 Chang, Daniel. 170
 Chang, Hoshing. MO165
 Chang, Yoon-Seock. TUPC18
 Chaousis, Stephanie. MO182
 Chaplow, Jacky. MO070
 Chapman, Donald. TU240
 Chapple, Andrew. 1, 243, 246
 Charcosset, Jean-Yves. TU034
 Chariton, Anthony. 362, WE358
 Charles, Sandrine. 150, 350, WE365
 Charman, Sheonaidh. MO070
 Chassenieux, Christophe. MOPC08
 Chatani, Satoru. TU404
 Chatel, Amelie. 589, TH003
 Chatterjee, Nivedita. MO167, TH322, WEPC06
 Chau, Charnett. 437
 Chauhan, Gabriela. TU425
 Chaumet, Betty. 202, TU015
 Chaumot, Arnaud. 230, 232, 477, TU111, WE361
 Chávez-Vargas, Aldo. WE082
 Checkai, Ron. TH138
 Chelinho, Sonia. 616, WE420
 Chemello, Giulia. WE121
 Chen, Chang-Er. TH259
 Chen, Changer. 11
 Chen, Chia-Yang. TU323
 Chen, Chiyun. TH205, TU020, TU311, TU398
 Chen, Da. 10
 Chen, Fangfang. WE126
 Chen, Huiting. TH105
 Chen, Szu-Chieh. TH185
 Chen, Te-Hao. TU323
 Chen, Wei Yu. MO354, TU020, TU207, WE142, WE299, WE313, WE315, TH185
 Chen, Weibin. 213
 Chen, Wen-Ling. MO288
 Chen, Wenlin. MO123
 Chen, Xin. TU185
 Chen, Yi-Fang. TU207, WE315
 Chenèble, Jean-Charles. 249, TU281, TU282
 Cheney, Cynthia. 645
 Cheng, Fei. WE186
 Cheng, Jiun-Yi. MO288
 Cheong, Se Uk. 449
 Cheong, Paul. TU412
 Cherta, Laura. WE333
 Chetelat, John. 636
 Chevassus-Rosset, Claire. TH153
 Chèvre, Nathalie. TU196
 Chèvre, Patrick. TH111
 Chevreuil, Marc. 227, 286, MO444, TUPC21
 Chhabra, Jaskanwal. WE221
 Chiaia-Hernandez, Aurea C. 20, TUPC05
 Chiaretti, Gianluca. TU012
 Chiasson, Susan. 102, MO442
 Chiavetta, Cristian. 625
 Chiellini, Federica. MO417
 Chinain, Mireille. TH174
 Chinn, John. 186
 Chipman, Kevin. 476
 Chitongo, Rumbidzai. 81
 Chiudioni, Filippo. TH203
 Chmurina, Olga. WE216
 Cho, Kijong. TH134, TH140, TH142
 Cho, Mina. TU134
 Cho, Suhyun. TU098
 Cho, Yoonhae. 449
 Choe, Eun Kyung. MO378
 Choi, Geunhyoung. WE145
 Choi, Jin-Soo. TU194
 Choi, Jinhee. MO167, TH322, WEPC06
 Choi, Kyungho. TH065, TH287
 Choi, Myoungjun. TH073
 Choi, Seongbeom. TH322
 Choi, Yeonsoo. MO242, TH200, TU351, TU352, WE247
 Choi, Yeowool. TU277
 Choi, Yun-Jeong. TUPC18
 Chokki, Jeannette. 369
 Chollet, Céline. 388
 Chonova, Teofana. MOPC28
 Choong Kwet Yive, Robert. TU068
 Choulet, Flavien. 276
 Choung, Catherine. 362
 Chowdhury, Jasim. 618, TH151, TH238, TU198, TU200
 Christelle, Thibault-Carpentier. WE297
 Christen, Anne. 137
 Christen, Verena. TU057
 Christensen, Sarah. TH159
 Christensen, Thomas. 15
 Christensen, Thora. MO337
 Christensson, Magnus. 77
 Christis, Maarten. MO109
 Christison, Terri. MO011
 Christophoridis, Christophoros. 592, TH181, TH182
 Chu, Chi-Hung. MO448
 Chu, Ka Hou. TH066, TH072
 Chu, Valerie. 94, MO368
 Chukwu, Obinna. TU071
 Chung, Chi-Jung. TU390
 Chung, Doo Soo. TH247
 Chung, Yong-Hyun. MO305
 Ciacci, Luca. 315
 Ciampalini, Rossano. MO094
 Ciampi, Paolo. 189
 Cibella, Fabio. MO239
 Cicero, Anna Maria. WE173
 Cicero, Maria Rita. TU316
 Ciervo, Aureliano. MO418
 Ciesielski, Tomasz. MO072, TU296
 Ciganek, Miroslav. 631
 Cimpean, Mirela. 365
 Cimprich, Alex. 318
 Cipoletti, Nicholas. 659, TH056, TH057, TH060
 Cipullo, Sabrina. 129
 Ciroth, Andreas. 439, MO114, WE263
 Cirpka, Olaf. 283
 Ciutat, Aurélie. 491
 Civitella, Consuelo. TH233
 Claessens, Aurore. TU312
 Clarens, Frederic. WE235
 Claret, Ariadna. TH311, TH312, WE225
 Clark, Bryan. 353
 Clark, Nathaniel. 38
 Clark, Paul. TU187
 Clark, Stephen. WE425
 Classen, Daniela. WE055
 Classen, Silke. 149, MO362, WE097, WE301
 Claudepierre, Thomas. MO369
 Clausing, Rachel. TH174
 Clauson-Kaas, Frederik. 652
 Claveau, Leila. 129
 Clement, Marylou. TH024
 Clérandeau, Christelle. MOPC06
 Clérendeau, Christelle. 649
 Coady, Katherine. 601
 Cobb, George. WE319
 Cochran, Kristin. MO293
 Cockroft, Robert. 294
 Codina, Anna. WE027
 Coelho, Gina. 44
 Coelho, Katuscia. TU053
 Coelho Vieira, Hugo. MO340, MO355
 Coello, Dolores. TH019
 Coffin, Scott. MO293
 Cognie, Bruno. TH003
 Cogua, Pilar. MO348
 Coimbra, Manuel. WE199
 Colacino, Justin. 642, TH243
 Colbourne, John. WE290
 Coleman II, James. WE052
 Coll Mora, Claudia. TU269
 Collard, Gilles. 447
 Collet, Pierre. 17, 626
 Collier, Tracy. 46
 Collinge, William. 228, MO115
 Colomé, Rosa. WEPC28
 Colon, Joan. 655
 Colpaert, Romain. 276
 Colson, Bernard. TU223
 Colvin, Molly. 272, WE423
 Comas, Joaquim. MO274
 Comber, Mike. MO434
 Comber, Sean. 511, 512, WE087
 Combi, Tatiane. MO452, WE091
 Comin, Francisco. TU034
 Compagnoni, Luca. MO103
 Compson, Zacchaeus. 362
 Compton, Jana. MO102
 Compton, Karen. 669
 Concha-Graña, Estefanía. TH103
 Conde, Estefania. TH092, TU089
 Conduto Antonio, Diana. TU029
 Conesa Alcaraz, Héctor Miguel. WE332
 Conkle, Jeremy. 468
 Connolly, Lisa. TH298
 Connon, Richard. 109
 Connors, Kristin. 170, 270
 Conolly, Rory. 600, TU210
 Conradsen, Knut. 15
 Conrow, Kendra. TU209
 Consales, Claudia. 285
 Consolandi, Giulia. WE111
 Constantin, Camelia. WEPC08
 Constantine, Lisa. MO169
 Conte, Elena. TU370
 Conti, Erminia. TU147
 Conti, Marcelo. 229
 Conti, Roberto. TU233
 Contini, Daniele. 284
 Cooke, Martin. 518
 Coolbaugh, Thomas. 44
 Coolen, Yorick. TH207
 Cooper, Karen. WEPC27
 Coors, Anja. 457, TU270
 Cooter, Ellen. MO102
 Coppola, Daniele. 27
 Coppola, Francesca. TU129, WE328
 Coq, Sylvain. TU299
 Coquery, Marina. MO349, TU030
 Corchero, Cristina. TU222
 Corcol, Natalia. 301
 Corcoll, Natàlia. 311, TU032
 Cordelli, Eugenia. 285, TH094
 Cordioli, Alberto. TU024
 Cortini, Tamara. TH233
 Cormier, Bettie. 649, MOPC06
 Cornelese, Adi. TUPC09, TUPC10
 Cornelio Ferreira Nocelli, Roberta. 330
 Cornelis, Christa. 226
 Cornelis, Geert. 97, WE387
 Cornelissen, Emile. 370
 Cornelissen, Gerard. 71, MO198, MO350, MO428, TH096
 Corominas, Lluís. MO274
 Corral Morillas, Núria. MO038
 Correa Barragán, William Alberto. MO348
 Corsi, Ilaria. 382, MO408, TH013, TH014, TU147, WE245, WE302, WEPC19
 Cortés Ruíz, Gema. 32, TH261
 Cortijo, Patricia. 565
 Corvaro, Marco. TH233
 Corvini, Philippe. WE378
 Cosgrove, John. 413
 Cossi, Paula. TU119
 Cossins, Andrew. 168
 Cossu-Leguille, Carole. WE386
 Costa, Anna. 320
 Costa, Antonia Juliana. TU130
 Costa, Elisa. TU121, TU131, TU308, WE194
 Costa, Giovanni. TU147
 Costa, Maria H. TH008
 Costa, Maria João. WE277
 Costa, Patricia. TU413
 Costa, Pedro. TH176
 Costa, Sara. MO058, WE269
 Costa, Silvana. TU129
 Costa Filho, Arão Pereira. WE433
 Costa-Silva, Samira. MO079
 Costabile, Francesca. 285
 Costas, Noemi. TU307
 Cottin, Nathalie. TUPC19
 Coulon, Frederic. 129
 Coulson, Mike. TH147
 Courant, Frederique. 411
 Courcot, Dominique. 225, TU405
 Courtney, Ronan. WE434
 Cousin, Xavier. 649, TU186
 Cousins, Ian. 261, 263, 356, 357
 Cousins, Steve. MO022
 Coustillas, Jori. 436

Coutris, Claire. 42, MO406
Couture, Jessica. 351
Couture, Patrice. 488, TU064, TU208
Covaci, Adrian. 12, 211, 29, MO072, MO080, TH067, TUPC20
Covelli, Stefano. MO334, MO346
Covolo, Loredana. 287
Cowan, David. WE088
Cowie, Phillip. TU187
Cox, Georgina. 165
Cozma, Petronela. TH276
Crago, Jordan. 661
Crawford, Sarah. 240, MO162, TH070, TH215, TH216, WEPC04
Credez, Anthony. 45
Cregut, Mickael. TU281, TU282
Cremona, Giuseppe. 285
Cremonesi, Marialuisa. TU256
Crenier, Clément. TU298
Cresswell, Tom. MO329
Creusot, Nicolas. MO249, TUPC05
Cribiu, Pauline. 230, TU111
Cristiano, Walter. TU315
Cromie, Ruth. 176, MO458
Cronin, Mark. 660
Croose, Lizzie. 87
Cross, Richard. 340, MO420
Cross, Timothy. MO011, MO277
Crossley, Dane. 162, 165
Crossman, Jill. TU168
Crouzet, Olivier. TH143
Crowther, Charlotte. WE291
Crump, Doug. MO263, WE293, WEPC15
Cruz, Andreia. TU428
Cruz, Justine. 388
Cruz, Nuno. 277
Cruz Viggio, Carolina. TU257
Cruzeiro, Catarina. MO138, MO431
Cuero Salazar, Shirley Elena. MO348
Cuesta, Alberto. MO239
Cui, Rongxue. TH135, TH136, TH197
Cuñat, Alejandro. WE138
Cunha, Virginia. MO235
Cunningham, Heidi. TH124, TH155
Cuperlo, Marco. MO408
Ćurčić, Nikola. TH300
Curieses, Silvana. MO403, MO404, WE076, WE168, WE170
Ćurko, Josip. 79, MO292
Curran, Erin. TH288
Curran, Ty. 107
Currie, Zachary. MO053
Curtis-Jackson, Pippa. MO215
Cusenza, Maria Anna. 623
Cutaia, Laura. 625
Cuthbertson, Amy. MO272
Cutler, Chris. 328
Cuttitta, Angela. MO239

D

D'Aco, Vincent. WE018
D'Agnello, Poala. TH175
D'Angelo, Anna Maria. WE081
D'Ugo, Emilio. TH203
Da Prà, Francesca. WE075
Da Rugna, Lucia. WE075
Da Silva, Clóvis. TU292
Da Silva, Clóvis Lucio. MO019
Da Silva, Muriel. MO267
Daam, Michiel. TH301, TUPC02, TUPC06
Dabrin, Aymeric. MO349, TU025, TU030
Dabrunz, Andre. TUPC11, WE377
Daehmlow, Daniel. 64
Daffe, Guillemine. 491, MO336
Daffonchio, Daniele. 308
Dafforn, Katherine. 309, 362, WE358
Daghio, Matteo. 190, TU248, TU257
Dagiliute, Renata. TU238, WE347
Dahlöf, Ingela. TH294
Dailianis, Stefanos. MO065, WE306
Dairain, Annabelle. 491
Dal Maso, Miikka. TH083, TH089
Dal Negro, Enrico. WE036
Dalhoff, Kristoffer. 151
Dalkmann, Philipp. 510, WE196
Dalla Valle, Natalino. TH233
Dalmijn, Joost. TU285
Damalas, Dimitrios. MO250
Damásio, Joana. TU344
Damerau, Malte. TU211
Damiani, Mattia. 133
Dammann, Martina. WE380
Dang, Viet. 539
Dang, ZhiChao. TH048
Danger, Michael. TU298
Daniel, Jonas. TH215, TH216
Daniel, Otto. TU009
Daniel-da-Silva, Ana. WE312
Daniel-Wójcik, Anna. MO076, TH254, WE393
Daniele, Gaëlle. 232
Daniels, Benjamin. 555, TH119, TH129
Danielsson, Sara. 604
Danis, Bruno. MO329
Dantas, Renato. WE084
Darriet, Marie. MO152, MO381
Dassuncao, Clifton. 576, WE343
Daura-Jorge, Fábio. MO064
Daval, Amandine. TH251
Davenport, Russell. 250, 251, TU288
David, Viviane. 154, WE361
Davidson, Todd. WE018
Davies, Holly. 602
Davies, Iain. TU193, WE052
Davies, Joanna. 185, WE164
Davis, Eva. WE429
Davis, John. TH042
Davis, W. Clay. 606
Dawick, James. 583, TU287
Dawson, Kenneth. MO408
Dayakar, Anil. TH215, TH216
De Albuquerque, Anjaina Fernandes. MO135
De Alencastro, Luiz Felipe. WE187
De Almeida, Eduardo. WE352
De Angelis, Ilaria. WE069
De Baan, Laura. TU009
De Baat, Milo. 126, 629, TH207, TH208, WE178, WE179
De Boeck, Gudrun. TH269
De Boer, Jacob. 323
De Boer, Tjalf. 414
De Brouwere, Katleen. 226, TH238
De Caavel, Bernard. WE263
De Campos Pereira, Hugo. TH097
De Castro-Català, Nuria. 424
De Cesare, F.. TU410
De Cirugeda Helle, Olivier. MO156
De Donno, Antonella. 287
De Farias, Natalia. MO268
De Felice, Beatrice. MO086, TH107, TU188, WE014, WE019, WE253
De Ferra, Francesca. TU259, TU260
De Graaf, Jack. TH306
De Grandis, Giovanni. 602
De Groot, Alice. WE028
De Jong, Wim. TU091
De Jonge, Martin. 24
De Jonge, Rob. WE267
De Krom, Iris. MO353
De la Torre, Ana. WE106, WE108
De Laender, Frederik. 268, WE340, WE361
De Los Angeles Bustamante Munoz, Maria. WE175
De Luca Picione, Fabiano. WE381
De Marchi, Lucia. MO417
De Meester, Steven. TH306
De Montaudouin, Xavier. 491
De Pace, Rita. TH175
De Poorter, Leon. WE267
De Rosa, Michele. 196
De Sanctis, Giacomo. 657
De Schamphelaere, Karel A.C.. 214, 473, 614, MO365, MO366, TH210, TU079, TU204, WE281, WE340
De Schamphelaere, Kristine. WE183, WE192
De Schryver, An. 194
De Snoo, Geert. 364
De Soete, Wouter. TH306
De Souza, Cleiton. MOPC02, TH137
De Vaufleury, Annette. 276
De Vilder, Ine. TU223
De Voogt, Pim. 370, 629, TH208, TU267, TU285, WE077, WE133
De Wilde, Tineke. MO376
De Wolf, Watze. 483
De Zwart, Dick. 170, 207, 358, 359, 554, MO165, TH286, WE392
Deacon, Samantha. TU381, WE259
Debat, Vincent. 232
Debie, Cathy. WE028
Debonneville, Christian. 571, TH212
Dechraoui Bottein, Marie-Yasmine. TH174
Decio, Pamela. TU056
Decottignies, Priscilla. TH003
DeCourten, Bethany. 109
Dedourge-Geffard, Odile. 515
Deermann, Lida. TU185
Deery, Andrew. 523
DeForest, David. TU376
Defossé, Saskia. 29
Degitz, Sigmund. MO193
Degli Esposti, Davide. 477, MO240
Degli Innocenti, Francesco. 419
Degola, Francesca. TU353
Dehelean, Stefan. TH128
Dei, Riccardo. TU363
Deines, Andrew. 496
Dejana, Laura. TH164
Del Giacco, Luca. MO243, WE019, WE305
Del Signore, Anastasia. 62
Delannoy, Matthieu. 385, MO369
Delarue, Ghislaine. MO201
Delest, Brigitte. TU017
Delgado, M^a del Mar. WE106, WE108
Deligiannakis, Yiannis. WE306
Delignette-Muller, Marie Laure. 474, WE368
Deline, Alyssa. MO421
Della Pietra, Leondina. 582
Della Torre, Camilla. MO243, TU181, WE305
Delledonne, Massimo. TU024
Delloye, Francis. TU312
Dell'Aversano, Carmela. 654, TH178
Delmaire, Gilles. 225, TU405
Delnat, Vienna. 366
Delogu, Massimo. 622
Delor Jestin, Florence. TU164, TU192
Delorme, Nicolas. 230, 232, TH241, TH242, WE361
Delpit, Nicolas. TH280
Demailly, Floriane. TU017
Demaret, Fabien. 12
Dembek, Gunnar. MO230
Demeestere, Kristof. 614
Demeneix, Barbara. MOPC05
Dementyev, Dmitry. WE211
Denaix, Laurence. WE146
Dencic, Ivana. TU093
Deneer, John. 345, 435
Déniel, Maureen. 524, TU195
Denslow, Nancy. 539
Derđ, Tamara. WE394
Descalzo-Sanchez, Esther. 85
Descos, Isabelle. WE263
Descostes, Michael. 215
Desforgues, Jean-Pierre. TU205
Desmettres, Peggy. 286
Desor, Frederic. MO369
Desportes, Annie. 227
Desrosiers, Marc. MO030
Destrycker, Gauthier. TU293
Deutschmann, Björn. 301, 550
Devault, Damien. MO275
Devaux, Alain. 230, TU111, WE191
Devesa, Ricard. TU372
Devic, Gordana. MO020
Dévier, Marie-Hélène. 633, TH026, TU268, TU422, TU423, WE146
Deviller, Geneviève. TH281
Devin, Simon. 528, WE154, WE182, WE368
Devreese, Bart. 414, TU141, WE284
Dewaele, Dorothee. TU405
Dewald, Carla. MO038
Dewulf, Jo. 135, 318, 499, TH306, TU214
Dewulf, Wim. 257, WE260
Deydier Stephan, Laurence. 586, WEPC08
Dhabbah, Abdulrhman. MO454
Dherrer, Lysiane. MO349
Dhollander, Sofie. 657
Di Capua, Elena. WE381
Di Carlo, Elisa. WE434
Di Carlo, Gabriella. TU090
Di Cesare, Silvia. 562
Di Giulio, Anita. WE035, WE038, WE041
Di Guardo, Andrea. MO383
Di Guardo, Antonio. 188, 336, 580, 63, MO223, MO435, TU245, TU247, TU366
Di Lenola, Martina. TU241, TU242, TU244, WE033, WE040, WE112
Di Liberto, Luca. 285
Di Lorenzo, Bianca. MO026, WE381
Di Lorenzo, Tiziana. MO412, TU126, WE076
Di Maria, Andrea. TU225
Di Marzio, Walter. MO403, MO404, MO412, TH266, TU018, TU126, WE076, WE165, WE168, WE169, WE170
Di Mento, Rossella. TU012
Di Mino, Gaetano. 438
Di Natale, C.. TU410
Di Nica, Valeria. TU334
Di Noi, Claudia. 439
Di Palma, Luca. 445, WE041
Di palma, Paolo. WE424
Di Paola, Carolina. 296
Di Paolo, Carolina. 458, MO261, MO270, TU315
DI PAOLO, CAROLINA. MO266

Diaconu, Edward. TU099, TU100
 Diamantopoulos, Efstathios. TH171
 Diamond, Miriam. 334, TH244, TU354, TU369, TU374, WE050
 Diana, Federico. TU248
 Diaram, Sunetha. TH076
 Dias, Ana. MO105
 Dias, Cristiane. TU052
 Dias, Francisco. TH233
 Dias, Vera. MO079
 Díaz, Blanca. WEPC28
 Díaz Muñoz, Cristina. 641
 Diaz-Alvarez, Javier. TH181
 Diaz-Asencio, Lisbet. TH174
 Diaz-Cruz, Silvia. 424
 Dick, Christophe. TU286
 Didenko, Viktoria. TH289
 Diehl, Otavio. TU114
 Diehl, Peter. 279, MO316
 Diepens, Noel. TU373
 Dieterich, Andreas. MO038
 Dietrich, Christian. MO296, TU058
 Dietz, Rune. TH038
 Dietzen, Christian. MO077
 Díez, Sergi. MOPC27
 Diez-Ortiz, Maria. TU344, WE308, WE426, WE427
 Dike-Ndudim, JOY. TU394
 Diksaityte, Austra. WE347, WE348, WE350
 Dikshit, Anil Kumar. MO116
 Dimauro, Marianna. 669
 Dimitrov, Sabcho. 356
 Ding, Wanghsien. TH161
 Dingemans, Milou. 237, 573
 Dinh, Khuong. WE330
 Dinisová, Petra. MO121
 Diniz, Lia Gracy. WE125
 Diniz, Mário. 428
 Dinoi, Adelaide. 284
 Dinter, Axel. 329, 494, TU044
 Diogène, Jorge. TH174, TH202
 Diogo, Hugo. 43, TU382
 Dionysiou, Dionysios. MO293
 Diot, Beatrice. 28
 Dittrich, Pitt. 347
 Dittrich, Ralf. MO066
 Dixon-Anderson, Erik. TH104
 Djordjevic, Tamara. TU368
 Do, Tien Dat. 574
 Doan, Que. TH298
 Doblin, Martina. 309
 Dodd, Matt. TU364
 Dodos, Andreas. 583
 Dodsworth, Thomas. MO313, WE109, WE120
 Doelsch, Emmanuel. TH153
 Doering, Jonathon. MO053, MO159, MO193, MO194, TH034, TU211
 Doering, Ricarda. 570
 Doerpinghaus, Jens. 472
 Dogliotti, Eugenia. Keynote Tuesday
 Dohmen, Peter. 182
 Doig, Lorne. MO252
 Doka, Gabor. 314
 Dolinova, Iva. TU251, TU252, TU262
 Dolny, Regina. WE097
 Domergue Dupont, Valerie. 612
 Domingo, José. WE244
 Domingues, Ines. 204, MO267, TH301
 Dominguez, Luis. 217
 Dominic, Anto Raja. 64
 Dominink, Zdybal. TU164
 Domit, Camila. MO343
 Domoradzki, Jeanne. TH042
 Donaldson, Francis. MO120
 Donat, Christina. TUPC07
 Donati, Enrica. WE034, WE039, WE040
 Dong, Meijun. TU033
 Dong, Yan. 378
 Doose, Caroline. 202, TH149, TU031
 Doran, Denise. TH257
 Dören, László. 34
 Dores-Sousa, José. MO431
 Dorigo, Adna. 330
 Dorn, Alexander. 510, WE196
 Dorn, Sabine. WE070
 Dorne, Jean lou. TH283
 Dos Santos, Amanda. TH023, WE190
 Doskocz, Nina. WE318
 Doucette, William. 130
 Douglas, David. MO353
 Douziech, Mélanie. 14
 Dowling, Russell. WE246
 Doyle, Ian. 432
 Dranguet, Perrine. MO333
 Dreij, Kristian. MO235
 Drewes, Jorg. MO296
 Dreyer, Annekatrin. 404, 605, TU408, WE256
 Drielsma, Johannes. TU214
 Drobne, Damjana. MO397, MO399
 Droge, Steven. 126, 577, MO189, MO203, TH259, WE179, WEPC14
 Drost, Wiebke. 561, TH044, TH114, TH279
 Drouillard, Ken. 349
 Drygiannaki, Ilektra. 272, WE423
 Drzewiecka, Agnieszka. MO076, TH254, WE393
 Du, Miaomiao. TH299, TU095
 Du Pasquier, David. MO190
 Du Preez, Marinus. MO056
 Duale, Nur. 28
 Duarte, Bernardo. WE020
 Duarte, Irina. MO061, WE012, WE107
 Dublan-García, Octavio. MO037
 Dubois, Caroline. TU365
 Dubois, Nathalie. WE187
 Dubucq, Dominique. 45
 Ducrot, Virginie. 153, MO357, WE369
 Dudley, Stacia. 450
 Duering, Rolf-Alexander. 34
 Duffek, Anja. 644
 Duffner, Andreas. 399
 Duflou, Joost. 257
 Dufour, Nathalie. 286
 Dufour, Vincent. 388
 Dugan, Nicholas. TH190
 Duggento, Andrea. TU417
 Duinker, Arne. 120
 Duirk, Stephen. MO272
 Dulbecco, Jose Rafael. WE263
 Dulio, Valeria. 300
 Dümichen, Erik. 158, MO322
 Dummert, Jule. 342
 Dumontet, Stefano. TU019
 Dupes, Lester. WE122
 Dupin, Damien. TU399
 Dupont, Anne. WE383
 Duporte, Geoffroy. TU422, TU423
 Dupriez, Maxime. 194
 Dupuy, Célie. WE379
 Duque, Guillermo. MO348
 Duquesne, Sabine. 402
 Durán, Antonio. MOPC22
 Duran Suja, Laura. TH023
 Duran-Alvarez, Juan-Carlos. MO313
 Durand, Loïc. 515
 Durand, Marie-José. TU282
 Durantou, Lise. TU164
 Durkalec, Maciej. TU301
 Durlinger, Bart. 198
 Durou, Cyril. MO381, WE391, TH280
 Duroudier, Nerea. TH025
 Duschl, Albert. 588
 Duso, Carlo. TU148
 Dusza, Hanna. TH320
 Duuren-Stuurman, Birgit. 588
 Dvorák, Zdenek. 631
 Dyck, Markus. 413
 Dyer, Scott. 358

E
 Earnshaw, Becky. TH130
 Ebeling, Markus. MO042, TH272, TH273
 Ebersbach, Ina. MO158
 Ebert, Ina. WE024
 Ebinghaus, Ralf. 70, MO445, TH100
 Ebke, Peter. 34
 Eby, Jamie. WE425
 Eck, Gero. WE364, WE372, WE374
 Ecker, Tiarne. 201
 Edelen, Ashley. MO102, MO392, TU106
 Edmiston, Paul. TH059
 Edwards, Christine. 593
 Edwards, Daniel. 496
 Edwards, Francois. 208
 Edwards, Paul. 244
 Eek, Espen. MO198, MO350, WE424
 Eens, Marcel. 211, 84, TH099
 Effenberger, Karel. WE421
 Efthimiou, Ioanna. WE306
 Egeghy, P. MO098
 Egeler, Philipp. 561
 Egeonu, Jane. TU394
 Egerton, Charles. 447
 Eggen, Grethe. MO080, MO081
 Egodawatta, Lakmini. 409
 Ehresman, Nathan. 496
 EI-Taliawy, Haitham. 77, MO290, MOPC22
 Eichhorn, Klaus-Jochen. MO317
 Eidsvoll, David. WE413
 Eijsackers, Herman. TH120
 Eiken, Madeline. 41
 Eilebrecht, Elke. 52, 663, WE376
 Einum, Sigurd. TU296
 Eisentraut, Paul. 158, 159, MO322
 Eisner, Bryanna. 108
 Eisner, Katherina. MO187
 Ek, Caroline. 604
 Ekberg, Christian. TH245
 Ekelund Ugge, Gustaf. WE282
 Ekener, Elisabeth. TH230
 Eklo, Ole Martin. 64
 EL Bachawati, Makram. WE220
 El Hajj, Aseel. MO369
 El Khoury, Vanessa. WE220
 El Zakhem, Henri. WE220
 Elger, Arnaud. 45
 Elias, Gemma. MOPC27
 Elizalde Ramirez, Laura. MO342
 Ellen, Gerald Jan. WEPC10
 Elliott, John. 349, MO069, MO089, TU303
 Elliott, Sarah. 659
 Ellis, Laura-Jayne. WE324
 Ellison, Gemma. MO011
 Ellor, Brian. 512
 Elo, Laura. MO236, MO237
 Elonen, Colleen. TU003, TU004
 Elpel, Harald. TH239
 Elsner, Martin. 192, MOPC07
 Elston, Charlotte. 494, TH147, TU055
 Elwan, Adam. WEPC08
 Emara, Yasmine. 75
 Emberger, Matthew. WE063
 Embry, Michelle. 170, 552, 598, 601, 665, MO165, MO169, TH041, TH042, TH043, TH049, TH278
 Emiliano, Pere. MO309
 Emmen, Harry. MO228, MO229
 Endo, Satoshi. WE058
 Eng, Margaret. MO068
 Engelbrecht, Marco. TH139
 Englert, Dominic. TU028, WE176
 Englert, Katja. WE105
 Engwall, Magnus. 649, MO433, TH214, TH302
 Enrici, Marie-Hélène. TU274
 Entling, Martin. 347
 Eo, Soeun. WE410
 Eon, Mélissa. TU017
 Erunmwunse, Nosakhare. MO238, WE141
 Ericher, Fabienne. MO132, WE203
 Erickson, Stephen. TU004
 Ericson Jogsten, Ingrid. TU254
 Eriksso, Andreas. 110, MO236, MO237
 Eriksson, Martin. TU032
 Eriksson, Per. 412
 Eriksson, Ulrika. WE126
 Ermler, Sibylle. 554, WE030
 Ernst, Gregor. 59, TH124, TH155
 Ernstoff, Alexi. 377, 500, WEPC27
 Errien, Nicolas. 524
 Erzgraeber, Beate. MO119, MO120
 Esbaugh, Andrew. MO015
 Esbrí, José-María. MO351
 Escande, Aurelie. MO249
 Escat, Emmanuel. 286
 Eschenbach, Eva. WE364, WE372, WE374
 Escher, Beate. 237, 240, 296, 569, 572, 602, MO440, TH213, TU158
 Escobar, Neus. TU103
 Escolà Casas, Mònica. 77
 Esimbekova, Elena. WE212
 Esnouf, Antoine. 16
 Espejel Ayala, Fabricio. WE093
 Esperón, Fernando. WE106, WE108
 Espí Gallart, José. WE235
 Espinat, Laurent. TH111, WE199
 Espindola, Evaldo. TH301, TU144, WE171, WE352
 Espinosa, Carmen. 655
 Espinosa, Cristobal. MO239
 Esposito, Carlo. 189
 Esposito, Giulio. MO335
 Esser, Dana. MO158
 Esser, Milena. TH299
 Esser, Verena. TH070
 Esteban, Elvira. MO202
 Esteban, Maria Angeles. MO239
 Esteban-Sánchez, Ada. MO003
 Esterhuizen-Londt, Maranda. 516
 Esteve Llorens, Xavier. TU239
 Esther, Alexandra. MO052, TU302
 Estrany, Francesc. TU372
 Etcheverria, Bruno. MO087
 Etxebarria, Nestor. 389, MO010, MOPC20, TU133, WE287
 Eulaers, Igor. 211, MO072, MO081, TUPC20
 Evangelista Correia, Jorge. MOPC02

Evans, Jonathan. MO131
Evensen, Øystein. 660
Evenset, Anita. MO178
Evenseth, Linn. 660, MO194
Everaert, Gert. TU011
Exeler, Nina. TU045, TU047, TU048
Eyckmans, Johan. TU240
Eymann, Lea. MO106
Eymery, Franck. TU375
Eysteinsson, Thröstur. WE240
Eze, Chinyere. 456
Ezea, Celestine. MO216
Ezeji, Uchechukwu. TU246
Ezemonye, Lawrence. MO238

F

Faassen, Elisabeth. TH193
Fabbri, Elena. TH012
Faber, Daniel. 510, WE196
Fabiani, Laura. 653
Fabre, Sophie. 45
Fadhlaoui, Mariem. 488
Fadini, Pedro. TU263
Faetsch, Sonja. WE189
Fahlman, Johan. TU023
Faimali, Marco. TU121, TU131, TU132, TU308, WE194
Fajana, Hamzat. TH132
Fajardo, Carmen. TH164
Fajon, Vesna. 123
Faksness, Liv-Guri. MO031
Falciani, Francesco. 168, 475, 476, 660
Falcieri, Francesco. TU155
Falcone, Pasquale Marcello. TH229
Falconer, Lynne. WE204
Falconi, Marco. TU243
Falkenhain, Anna-Maria. 457
Falleni, Fabrizio. TU316
Faltermeyer, Florian. WE134
Fangmeier, Andreas. 406
Fantke, Peter. 378, 501, MO090, TU406
Faraldo-Alonso, Raquel. MO202
Faraponova, Olga. TU012
Farenhorst, Annemieke. 635
Farinelli, Alessandro. TU024
Farkas, Julia. MO032, MO415, WE095, WE405
Farlin, Julien. MO128
Faron, Justyna. MO076, WE393
Farr, Brianna. 170, MO165
Farrar, Thomas. TU076
Farre, Marinella. 156, 424, TH163, TH202, WE129, WE398, WE399
Farré-Urgell, Marinella. 156
Faßbender, Christopher. 493
Fasola, Emanuele. MO054
Fatoki, Os. 387
Fatone, Francesco. TU024
Fattorini, Niccolò. WE245
Faupel, Michael. TU043, WE395
Faust, Michael. 298, 299, 300, 345, 551, 554
Fauvelle, Vincent. TH018
Favez, Olivier. TU405
Favier, Maryline. 612
Fay, Kellie. MO159, TH034, TH042, TU003, TU004
Fazio, Simone. TU099, TU100
Feder, Frédéric. TH153
Fedorova, Ganna. WE090
Fedoseeva, Elena. 532
Fedotov, Petr. TH245
Fedrigo-Fazio, Doreen. TU234
Fedrizzi, Davide. 231, TH036

Feidt, Cyril. 385, MO210, MO211, MO369
Feifarek, David. MO159, TH034
Feijoo, Gumersindo. TU239, WE222
Feken, Max. TU055
Felten, Vincent. TU298, TU299
Fenet, Helene. 411
Feng, Yanhong. TH144
Feng, Yong-Lai. TU407
Fenice, Massimiliano. TU261
Fenner, Kathrin. 250
Fenske, Martina. 458, MO266
Feola, Alessandra. WE275
Fer, Miroslav. 453, WE150
Ferdinand, Paschaline. TU246
Feretti, Donatella. TU353
Ferla, Maurizio. WE275
Ferling, Hermann. MO230
Fermeglia, Maurizio. TH315
Fermo, Paola. TU395
Fernandes, Eva. 344
Fernandes, Teresa. TH296, TU096, WE336
Fernández, Beatriz. 157, 650
Fernández, Daniel. MO260
Fernández, Denis. MO009
Fernandez, Marta. TH092
Fernández, Pilar. WE241
Fernández González, Laura Emilia. TU109
Fernández-Calviño, David. MO371
Fernandez-Cruz, Maria Luisa. MO379, TH064, TH092, TU089, WE309
Fernández-González, Veronica. TU176, TU190
Fernández-López, Carmen. WE144
Fernandez-Piñas, Francisca. 525, TH002
Fernandez-Torres, Ruth. WE102
Ferne, Kim. MO082
Ferrante, Margherita. TH180
Ferrari, Anna Maria. TU218
Ferrari, Benoît. TU197, TUPC05, WE187, WE387
Ferrari, Benoit J D. TU025
Ferrari, Federico. 3
Ferrari, Rodolfo. TU248
Ferrario, Claudia. TU334, WE014
Ferreira, Carolina. WE360
Ferreira, Lucien. MO153
Ferreira, Maria Florencia. MO260
Ferreira, Mário. TU383
Ferreira, Nuno. TU428
Ferreira, Violeta. 234
Ferrer, Gertri. TH312
Ferreux, Teo. MO312
Ferre, Mark. TH288
Ferri, Emanuele. MO163
Ferriol, Jessica. TU298
Fettig, Ina. MO353
Fialho, Sofia. TU313, WE277
Ficheux, Anne-Sophie. 14
Fick, Jerker. 200, 203, 514, MO302, TU327, TU328, WE083
Fiedler, Heide. TH116
Fierens, Tine. 226
Fifi, Anna Paola. WE121
Figueira, Etelvina. 490, MO417, WE286, WE328
Figueira, Rubens. MO343, WE254
Figueiredo, Cátia. WE329
Figueiredo, Joana. WEPC20
Figueiredo, Livia. TH301, TU144, WE171
Figueiredo, Maria Clea. WE238
Filatova, Daria. TH163
Fillmann, Gilberto. TU413

Finizio, Antonio. MO139, MO140, MO383, WE014, WE039, WE040
Finkbeiner, Matthias. 75
Finlayson, Kimberly. MO161
Finn, Fia. 203
Finnegan, Meaghean. TH147
Fino, Alessandra. MO335
Fiorati, Andrea. 382
Fiorati, Andrea. WEPC19
Fischer, Astrid. 360
Fischer, Dieter. MO317
Fischer, Fabian. 569
Fischer, Stephan. TUPC05
Fish, Lucy. 5
Fisher, Nicholas. TU321
Fisher, Rebecca. 305
Fisk, Aaron. 28
Fitzgerald, Jennifer. TH041, WE298, WEPC01
Fitzsimons, Mark. 511, WE087
Flach, Carl-Fredrik. 514
Flashinski, Jeff. 130
Flessa, Heinz. MO393
Fligg, Marvin. 433
Floeter, Carolin. WE026, WE110
Floreani, Federico. MO334
Fluck, Juliane. 472
Focks, Andreas. 268, 301, 345, 350, 356, 357, 358, 359, 550
Fodelianakis, Stilianos. 308
Foekema, Edwin. 476
Fogaça, Fabíola. MO345
Foglietto, Paola. 189
Foit, Kaarina. 6
Fojtová, Dana. TU146
Follain, Stephane. MO094
Fonda, Irena. WE140
Fonseca, Elza. 535
Fonseca, Vanessa. MO061, WE012, WE020, WE107
Font, Carme. WE326
Fontanetti, Carmem. MOPC02, TH137
Fontas, Claudia. MO273, MOPC27
Forbes, Joshua. 109
Forbes, Valery. 89, TU377
Ford, Alex. TU325, TU326, TU338, WE111, WE289
Ford, Simon. MO119
Forino, Martino. 654
Förlin, Lars. MO008
Formalewicz, Malgorzata. TU319
Fornara, Andrea. 588
Fornasiero, Diego. TU148
Forsberg, Norman. MO206, WE371
Förster, Bernhard. TH119, TH127
Fort, Doug. WE380
Fortin, Claude. TU031
Fortin, Marie. 599
Fossi, Maria Cristina. 111, 27, 28, 416, MO062, MO063, TH004, TU128
Foster, Karen. 665, TH040, TH043
Foster, Warren. TU407
Fouarge, Marie. WE361
Foudoulakis, Manousos. 497, 90, MO088
Fournier, Agnès. MO210, MO211
Fox, David. 305
Fozer, Daniel. TH307
Fraga, Marta. TU359
Frampton, Geoff. TU379
Franceschini, Gianluca. WE341
Francese, Marco. WE381
Franchi, Andrea. TU343
Francioli, Alberto. TU248
Francisco, Olga. MO027, MO033, MO251

Franco, Antonio. TH290
Franco, Pilar. 471
Franco-Martinez, Lorena. TH015
François, Emilie. WE114
Franeý-Gardiner, Mercedes. WE373
Franke, Jonas. TU154, TU155
Franke, Lea. TU042, TU048
Franko, Uwe. 145
Frantzen, Sylvia. 120
Franzaring, Jürgen. 406
Franzellitti, Silvia. TH012
Franzetti, Andrea. 190, TU248, TU257, TU259, TU260
Fratini, Sara. TU128
Frattini, Stefano. 581
Frau, Valerio. TU316
Freedlander, Samuel. TH252
Freeling, Finnian. 247
Freese, Marko. TU211
Freidkin, Mihail. 532
Freire, Fausto. WE238
Freitas, Andrea. WE100, WE107
Freitas, Emanuela. TH301
Freitas, Juliane Silberschmidt. WE352
Freitas, Rosa. 490, MO417, TU129, WE328
Fremdt, Heike. WE369, WE370
Fremelin, Kate. 349, TU303
Frenandez, Javier. MO311
Frenandez Dacosta, Cora. TU093
Fréon, Pierre. 134
Fresega, Anna. MO418
Fricke, Julian. TU042, TU048
Friel°, Anja. MO157
Fries, Elke. 96
Friesen, Anton. MO373
Frippiat, Christophe. TU312
Frisch, Katharina. 347
Frische, Tobias. 555
Frischknecht, Rolf. 318
Frisiani, Sara. 443
Fritt-Rasmussen, Janne. 47, MO016
Froemelt, Andreas. 147
Frombold, Bianca. MO045
Frömel, Tobias. 141, 371, TH101
Frommberger, Malte. TU048
Frontczak-Baniewicz, Małgorzata. MO076, TH254
Fruet, Pedro. MO064
Frydkjær, Camilla. TH020
Fryer, Benjamin. MO293, MO397
Fu, Qiuguo. 231, MO158, TH036, TUPC05
Fuart-Gatnik, Mojca. TH282
Fuchs, Stephan. MO375
Fuchte, Hanna. MO427
Fuelling, Olaf. MO074
Fuentes, Natalia. TU344
Fuertes, Inmaculada. 232, 537
Fujita, Emiko. TU054
Fujita, Yuki. 24
Fulgoni III, Victor. 375, WE264
Fullana, Pere. 566, WE261, WEPC28
Fumagalli, Pietro. WE040
Funari, Enzo. 656
Fünfroeken, Elisabeth. TH249, WE127
Fuss, Maryegli. TH230
Fuss, Roland. MO393
Fuster, Laura. TU268
Futter, Martyn. TU168

G

Gaasbeek, Anne. 436
Gabarrell, Xavier. 258, TH313

Gabbert, Silke Gerda Margaret. 430, 431, WE049, WE051
Gabellini, Massimo. TU319, WE341
Gabriel, Antonietta. WE269
Gabiëls, Isabelle. MO259
Gabiëlsen, Geir. MO035, TH031
Gabsi, Faten. MO359
Gachanja, Anthony. WE087
Gadaleta, Domenico. MO185
Gadd, Jennifer. TH077
Gaertner, Christian. TU275
Gaevsky, Nikolay. WE214
Gagliardi, Roberta valentina. TU402
Gagne, François. TU181
Gago-Martínez, Ana. TH176
Gahou, Josiane. TU030
Gaillard, Jean-Charles. 477
Gaillard, Juliette. TU422, TU423, WE146
Galampo, Christine. 51
Galar-Martinez, Marcela. MO037, WE085
Galassi, Diana. MO412, TU126, WE076
Galert, Wiebke. TH279
Galgani, Francois. 417
Galhano, Victor. 39, MO407
Galic, Nika. 89, TU377
Galimberti, Francesco. MO130, MO220, TH235, TU088
Gallagher, Kathryn. 212
Gallant, Lauren. 407
Gallard, Hervé. 369, 371
Galle, Tom. 137, MO127, MO128, MO276
Galler, Martina. MO374
Galletti, Paola. TU233
Galli, Emanuela. WE039, WE040
Galli, Gina. 165
Gallice, Aurélie. 72
Galloway, Tamara. 340, 425, MO420
Galvano, Camila. TU425
Gamarra, Ana Rosa. TU235
Gambardella, Chiara. TU121, TU131, TU132, TU308
Gamberini, Rita. TU218
Gamblin, Clare. 294, WE396
Gan, Jay. 450, MO430, TU249, WE013, WE428
Ganzevles, Jurgen. 322
Gao, Juan. WE151
Gao, Zhenglei. 2, WE369, WE370
Garagna, Desirèe. TU138
Garaventa, Francesca. TU121, TU131, TU132, TU308, WE194
Garbayo, Ana. TU372
Garbini, Gian Luigi. TU242
Garcia, Clement. TH257
Garcia, Diego. MO181
Garcia, Ester. MO314
Garcia, Esther. TH233
Garcia, Irina. TU072
Garcia, Jade. 562, WE263
Garcia, Jose Luis. 127
García, Maria Angeles. WE010
García, Maribel. TH231
Garcia, Miriam. 355
García, Patricia. WE344
García Bueno, Nuria. 471, WE200, WE201, WE204
García Herranz, Víctor. TH064
Garcia Jorgensen, Daniel. TH171
Garcia Munoz, Patricia. WE092
Garcia Velasco, Nerea. MO403
García-Astillerro, Ariadna. WE333
García-Encina, Pedro. 80
Garcia-Fernandez, Antonio Juan. MO072, MO081
García-Guaita, Fernando. WE222
García-Martínez, María-Jesús. MO351
García-Velasco, Nerea. TU143
Gardi, Ciro. 657
Gardiner, Christine. TH102
Gardini, Davide. 320
Gardner, Mike. 512, MO215
Garduno, Andrea. MO313
Garelick, Hemda. 641, TH245
Garí, Mercè. MO339
Garman, Emily. 214, TU078
Garmash, Olga. 69
Garnero, Laura. 230, TH242
Garnica-Soto, Alicia. TU089
Garnier-Laplace, Jacqueline. TH285
Garoche, Clementine. MO249
Garrain, Daniel. MO104, TH305, TU235
Garric, Jeanne. TH110, TH111
Garrido, Juan Manuel. TU239
Garrido de Oliveira, Fernando. MOPC03
Garrod, Mark. TU291
Gaschak, Sergey. WEP03
Gaspard, Sarra. 385
Gassmann, Matthias. MO128
Gathmann, Achim. TU265
Gauchotte-Lindsay, Caroline. TU157
Gauthier-Manuel, Honorine. 276
Gavasso, Corrado. TU316
Gavián, Juan Francisco. 111
Gavriilidis, Asterios. TH309
Gavrilescu, Maria. TH276
Gaze, William. 520, 521, WE112
Géba, Elodie. 515
Geduhn, Anke. TU302
Geerts, Lieve. 226, TH080, TH238
Geertz-Hansen, Ole. 47
Geffard, Alain. 515, TH193, WE361
Geffard, Olivier. 477, TH241, TH242, TU111, WE361
Gehde, Michael. 158
Gelatti, Umberto. 287
Gelber, Clementine. WE209
Gembé, Carolin. TH258
Gemma, Sabrina. TU399
Genest, Andreas. 194
Geneste, Emmanuel. 633
Genevray, Paul. TU405
Genga, Alessandra. 284, 288
Genoni, Pietro. TU029
Genovese, Griselda. MO260
Gensemer, Robert. 216, TU376
Genthe, Bettina. 387
Georgantzopoulou, Anastasia. 42, MO406, MO415, WE413
Georgiou, Yiannis. WE306
Gerald, Thouand. 249, TU281, TU282
Geraldo Morales, Guadalupe. MO264
Gerasimova, Marina. WE216
Gerber, Ruan. TU013
Gerbinet, Saïcha. MO095
Gerdes, Zandra. TU172, TU178
Gerds, Gunnar. MO315, MOPC12
Gergs, Andre. 149, MO357, MO362, MO364
Gérin-Lajoie, José. 636
Germer, Sabine. TH053
Gerson, Jacqueline. 121
Gerstle, Verena. WE335
Gerstmann, Brigitte. MO423
Gervaix, Jonathan. WE172
Gesset, Charline. TH111
Gessner, Mark. WE357
Getlicherman, Michel. TU223
Geueke, Birgit. 324
Geuvara, Megan. MO143
Gevaert, Tom. 559
Ghekiere, An. MO376
Ghilardi, Anna. MO243, WE019, WE305
Giacco, Elisabetta. WE381
Giacobbe, Mariagrazia. TH178
Giamberini, Laure. 528, TH265, WE182, WE386
Giannarelli, Stefania. WE069
Giannetti, Matteo. 27
Giannone, Francesca. TU024
Giardina, Silvia. TH232
Gibon, Thomas. TU102
Gibson, Richard. 3
Giela, Anna. MO070
Gielazyn, Michel. 104
Giese, Evelyn. TH127
Giesy, John. MO433, TH256
Giffard, Hervé. TU048
Gigault, Julien. MO330
Gigliotti, Federica. WE121
Gil-Uriarte, Aendika. MO029
Gilardino, Alessandro. 376
Gilbert, Dorothea. 125
Gilbertson, Peter. 186
Gilbin, Rodolphe. TH285
Gildemeister, Daniela. WE006, WE057
Gillanders, Bronwyn. WE012
Gillgard, Philip. 263
Gilli, Giorgio. TU258
Gillies, Kendall. 354
Gillmore, Megan. WE185
Giltz, Sarah. 102
Gimbert, Frédéric. 276
Giménez-Lozano, Lidia. MO078
Gimeno, Sylvia. 571, TH212, WE046, WE063, WE388
Gimeno Melia, V. MO274
Gimsing, Anne Louise. 245, 3, MO146, TU265, TU271
Gin, Karina Yew-Hoong. 467, MO308, MOPC18, TH105, TU016
Ginebreda, Antoni. 139, 300, TH291
Giokas, Sinos. MO065
Giordano, Patrizia. WE091
Giorgini, Loris. TH304
Giorgis, Alessia. 397
Giovannini, Enrico. 113
Girardi, Pierpaolo. WE262
Gismondini, Eric. TH069
Gissi, Andrea. 267, TH282, TU006, TU007
Giubilato, Elisa. 325, TU090
Giuliani, Chiara. TU090
Giulivo, Monica. 427
Giuseppetti, Roberto. TH203, WE081
Giusto, Marco. 224
Giuttari, Laura. 624
Givchchi, Babak. TU360
Giwa, Abdur-Rahim. TU062, TU076, WE094
Gkelis, Spyros. TH181
Glaberman, Scott. MO049
Gladbach, Anja. TH273
Glanas, Aneta. MO076
Glaser, Clarissa. WE134
Glenn, Brad. 496
Gliveson, Patrik. TU320
Globevnik, Lidija. 359
Gobas, Frank. 349, 669, TU303
Gobbi, Gian Paolo. 285
Godar, Javier. TU103
Godfery, Tracey. 637
Goedecke, Caroline. 220
Goerlitz, Gerhard. 59, MO155
Goglio, Pietro. WE234
Gogos, Alexander. 448, 98, MO422
Goh, Christine. WE342
Goharnia, Arijan. TH028
Gojgić-Cvijović, Gordana. TU273
Golaszewski, Janus. 502, TU234
Golden, Heather. MO102
Golding, Lisa. WE185
Golla, Burkhard. 64
Golovko, Oksana. 453, WE150, WE351
Gombač, Mitja. WE140
Gomes, Fabiana. TU380
Gomes, Rachel. 281, MO313, WE109, WE120
Gomes, Tânia. TH318, TH319, WE413
Gomes, Vanessa. MO388
Gomez, Elena. 411
Gomez, Isabel. 471, WE200
Gómez-Oliván, Leobardo. WE085
Gómez-Oliván, Leobardo Manuel. MO037
Gómez-Ramírez, Pilar. MO072, MO081
Gomiero, Alessio. TU163
Gonçalves, Ana. 278, TH015, TU075, TU083, TU153, WE198, WE199
Gonçalves, Cátia. TH008
Gonçalves, Fernando. 278, MO059, TU075, TU083, TU153, WE199
Goncalves, Sandra. TH218, TH293, TU110
Gonçalves, Sara. WE286
Gonsior, Guido. 398, WE163, WE374
Gonsior, Gundula. TU041
Gonzales, Mariana. TU241
González, Ana Belén. TU139
González, Aridane. TU298
Gonzalez, Cécile. MO453
Gonzalez, Ignacio. TH233
Gonzalez, Mar. TH091
González, Miguel. WE108
Gonzalez, Patrice. 410, 491, MOPC06, TH274, TU017, WE297
Gonzalez, Veronica. WE308, WE426, WE427
Gonzalez Garay, Andres. 321
González García, Mariano. WE144
González Louro, Lucía. WE222
González-Alcaraz, M. Nazaret. 275, TU300, WE270, WE332
Gonzalez-Andres, Veronica. TU344
González-García, Sara. TU234, TU239, WE222
Gonzalez-Gaya, Belen. 471, WE200, WE201
Gonzalez-Leal, Juan Maria. MO320
Gonzalez-Soto, Nagore. MO003
González-Soto, Nagore. TH025
Gopalapillai, Yamini. TH266
Gorbi, Stefania. TH027
Goria, Paola. 189
Görlich, Armin. TU059, TU060
Gorokhova, Elena. TU172, TU178
Gosens, Ilse. TU091
Goss, Kai-Uwe. MO455, WE045, WE058
Goswami, Parikshit. 263
Gottardi, Michele. TU124
Gottardi, Simone. MO156
Gottesbueren, Bernhard. MO120
Gottschling, Michael. TH028, TH029

Goudey, Robert. MO341
Gouin, Todd. 553, 580
Goulet-Fortin, Jerome. MO120
Goulson, Dave. 328
Gourves, Pierre-Yves. 491, MOPC06
Goussen, Benoit. 154
Goutte, Aurélie. MO312, MO444, TH108, TU306, TUPC21
Gouveia, Duarte. 477
Gouveia, Sandra. 454
Govender, Danny. MO056
Grabic, Roman. 453, TH106, TH209, WE090, WE150
Grabicova, Katerina. WE090
Grabitz, Elisa. TU278
Grabner, Daniel. 355
Gracio, Carlos. TU292
Gradish, Angela. 328
Graf, Nadin. 347
Graham, David. 518
Gramatica, Paola. 396, 664, TU087, WE066
Granat, Jeremy. WE114
Granato, Giuseppe. TU012
Granberg, Maria. TH031
Grandjean, Philippe. 576, 640
Grangé, Emilie. TU282
Granger, Damien. 388
Grassi, Giacomo. 382, MO408, WEPC19
Grassmann, Johanna. WE149
Grasso, Fabio. 284
Grathwohl, Peter. 283, TU173, TU411
Gravato, Carlos. 341, TU359
Gray, Austin. MO326, WE119
Graziano, Aurora. WEPC19
Grbec, Branka. 123
Grech, Audrey. 668
Grechi, Laura. MO367
Gredelj, Andrea. MO367
Green, David. 349
Green, Derek. MO252, MO263, WE293
Green, John. 401, 496, 498
Green, Maggie. MO291
Green, Norman. MO332, MO380, MOPC24, TU011
Green Etxabe, Amaia. MO405
Greener, Mark. 5
Greenhill-Hooper, Mike. 447
Gregson, Maud. TH251
Grenni, Paola. 446, TH164, TU241, TU242, TU243, TU244, WE033, WE034, WE035, WE039, WE040, WE041, WE112, WE117, WE175
Grey, Erin. MO442
Gribben, Paul. 309
Griffin, Larry. 348
Griffiths, Megan. WEPC01
Grifoll, Magdalena. 191
Grignard, Elise. TH050, TH051
Grigorev, Yury. WE213, WE214
Grigorova, Petya. TH047
Grill, Matthias. TU234
Grimaldi, Fabio. TH309
Grimaldi, Marina. MO249
Grimalt, Joan. MO339, TH074, TU358, WE241
Grimard, Chelsea. WE293
Grimm, Deborah. MO442
Grintzalis, Konstantinos. 475
Grisolia, César. MO268
Grisot, Ghislaine. MO349
Grobela, Anna. 383, TU066
Groen, Evelyne. 13
Groenenberg, Jan. WE386
Groening, Claudia. 399
Groffen, Thimo. 84, TH099
Groh, Ksenia. 324, TH284
Grollino, Maria Giuseppa. 285
Grönman, Kaisa. WE257
Grooms, Chris. 407
Groppi, Vanessa. WE075
Gros, Meritxell. WE129
Grosell, Martin. 161, 162, 164, 165, MO015
Gros Lambert, Sylvie. MO095, MO117, TU223
Gross, Elisabeth. WE182
Gross, Lutz. 12
Grosse, Sylvia. 368, MO280
Groussin, Johanna. MOPC06
Gruchlik, Yolanta. 78
Grueiro Noche, Gloria. TU109
Grueiro-Noche, Gloria. TU176, TU190
Gruenenwald, Thomas. TH226
Grung, Merete. TU038
Grzesica, Mateusz. WE393
Grøsvik, Bjørn Einar. TH234
Gu, Cheng. WE062
Gualtieri, Maurizio. 285
Guarino, Marcella. TU395
Guarise, Mirko. TH233
Gucci, Paola. TU316, WE039, WE040
Guchardi, John. TH317, WE016, WE017, WE031
Guckland, Anja. MO126
Guddal, Gunnar. TU415
Guenthardt, Barbara. TH169
Güereca, Leonor Patricia. TH231
Guerin, Sarina. MO190
Guerin, Thierry. MO211
Guérol, François. WE182
Guerra, Roberta. WE091
Guerrero Cervantes, Maribel. MO041
Guerrero Limón, Gustavo. MO007
Guerrero, Ettore. TU244
Guerrini, Franca. 654
Guggenberger, Georg. 96
Guhl, Barbara. TH292
Guibaud, Gilles. TH250
Guidolin, Laura. TH194, WE075
Guilherme, Sofia. TH176
Guilhermino, Lucia. TU117
Guillard, Jean. WE191
Guillem, Nuria. 424, MOPC21, TH202
Guillem-Argiles, Nuria. TU313
Guillén Gosálbez, Gonzalo. 321, MO099
Guillon, Amélie. 612
Guinee, Jeroen. 13, 318, TU214
Gulnov, Dmitry. WE217
Gulpen, Marijn. 393
Gülsever, Gizem. TH221
Gundlach, Michael. 458, MO266, MO270
Gunnarsson, Lina. 392, 454, WE104
Guo, Jiehong. TU369
Guo, Xuejun. MO205, MO443
Guo, Ying. WE128
Guseynov, Oleg. WE218
Guseynova, Valeriya. WE218
Gusmaroli, Lucia. MO289, MOPC19
Gustafsson, Jon Petter. TH097
Gustavson, Kim. 47, MO016
Gustin, Mae. 119
Gutierrez, Tony. WE411
Gutow, Lars. TH005
Guzman-Garcia, Xochitl. TU309
Gylyte, Brigita. WE322
Harding, Louisa. 354, TU212
Hardt, Susanne. MO373
Hardy, Ian. MO119
Harford, Andrew. 305
Haring, Herman. TH190
Harju, Mikael. 28, MO178
Harloff, Annika. 141
Harmsen, Joop. 128, 435
Harner, Tom. TU408
Haro Castuera, Amparo. 32
Haro-Castuera, Amparo. TH261
Harper, Ian. TU383
Harris, Meagan J. 94, MO368
Harris, Neil. WE234
Harris, Shelley. 334, TU354, TU369
Hartl, Mark. 523
Hartmann, Nanna. 160, MO324, TH011, TH030, TH082, TU183
Hartmann, Sarah. 37, MO407, TU335
Harvey, Brian. 242, 244
Hasbay, Utku. TH057, TH058
Hashmi, Muhammad. 296, TH213
Hasik, Vaclav. WE221
Hassellöv, Martin. 160, TH031
Hassett, Brooke. TU014
Hassink, Jan. 252
Hassold, Enken. TH053, TH279
Hastie, Colin. TH290
Hatfield, Joseph. TH025
Haugen, Siri. WEPC21
Haupt, Stefan. TU045
Hauschild, Michael. 378, MO111
Hauschild, Rüdiger. TUPC09, TUPC10
Hausen, Jonas. 266, TU005
Häusler, Andreas. TU151
Havens, Patrick. TH233
Haverinen, Jaakko. 110
Hawkins, Troy. MO102
He, Jun. TU408
He, Meng-meng. TU403
He, Shan. WE290
He, Wenkui. MO142
He, Yiliang. MO308
He, Yuyu. TH288, TH323
Head, Ian. TU257
Heath, Joel. 636
Hebert, Armelle. 237
Hébert-Houle, Emilie. 636
Hecker, Markus. 108, 481, 598, 603, 634, MO053, MO252, MO263, TU211, WE293, WEPC15
Hédacq, Rémy. 45
Hedgpeth, Bryan. MO186
Hedouin, Laetitia. 590
Heeren, Niko. 147
Heger, Sebastian. TH299, TU095
Hegler, Florian. 3, MO142
Hegrova, Jitka. WE421
Heijerick, Dagobert. TU199
Heijungs, Reinout. 13
Hein, Arne. WE006, WE024
Heine, Simon. 400, MO125, MO155, MO363, WE157
Heinemann, Oliver. 243, 246
Heirman, Bert. TH306
Heise, Susanne. 505, TU081, WE189, WE310
Helander, Björn. 211
Helander, Hanna. 254, TU227
Helbig, Christoph. 318
Hélias, Arnaud. 132, 133, 134, 16, 626
Helliwell, Richard. WE120
Hellpointner, Eduard. MO147, WE196
Hellstrandh, Magnus. TH112

Hellström, Gustav. 200, 203
 Hellweg, Stefanie. 147, WEPC26
 Helm, Paul. MO303, MOPC17, WE050
 Helmecke, Manuela. 238
 Helmus, Rick. TU267, TU285
 Hema, Tatjana. 420
 Henderson, Andrew. MO093, MO102
 Hendrickx, Hilde. MO391
 Hendriks, Carlijn. 73
 Hendriks, Jan. 14, 355, TUPC17, WE181
 Henneberger, Luise. 569, WE058
 Hennebert, Pierre. 590
 Hennecke, Dieter. 252, 435, 67, TU151
 Hennig, Michael. MO449, WE304
 Hennige, Sebastian. TH296, WE336
 Henning, Miranda. TH237
 Henriksson, Patrik. 13
 Henriques, Bruno. WE328
 Henriques, Isabel. WE269
 Henry, Barbara. TH115, TH116
 Henry, Eric. MO136
 Henry, Kevin. 496
 Henry, Paula. MO082
 Henry, Theodore. 103, TH023, TH024, WE406, WE411, WE412
 Hepsø, Marion. MO318
 Herbert, John. 168
 Herbert, Lucila. TU119
 Herborn, Katherine. 205
 Heredia, Borja. 173
 Hermans, Davy. 95
 Hermanson, Mark. 69
 Hermens, Joop L.M.. MO203, WE392, WEPC14
 Hermes, Nina. MO296
 Hernández Zamora, Miriam Azucena. WE079, WE082
 Hernandez-Moreno, David. MO379, TH092, TU089
 Hernández-Navarro, María Dolores. MO037
 Herrchen, Monika. TH084, TH085
 Herrera, Israel. TH305, TU235
 Herrero, Marta. MO075
 Herrero Nogareda, Laia. TH277
 Hershey, Anne. WE119
 Herza, Tomas. TH240
 Herzke, Dorte. 348, MO035, MO072, MO080, MOPC11, TH018, TUPC20
 Heseding, Jens. WE110
 Hess, Maren. 279, MO316
 Hess, Philipp. TH174
 Hessen, Dag. 426, TU304
 Hetjens, Hanne. WE183, WE192
 Hettinger, Anne-laure. 565
 Hettwer, Karina. 240
 Heuer, Rachael. 162, 165, MO015
 Heugens, Evelyn. TU093
 Heuschele, Jan. WE331
 Hewins, Valerie. WE063
 Heydari, Akbar. MO390
 Heye, Katharina. WE009
 Hickey, Gordon. WEPC15
 Hidalgo, Carme. TH310, WE225
 Hideg, Kálmán. WE056
 Higuera, Pablo. MO351
 Hilber, Isabel. MO199, MO426
 Hildebrandt, Jan-Peter. TH186, TH187
 Hill, Katie. TH198, TH199
 Hill, Marcus. TU055
 Hill, Nick. MO338
 Hill, Philippa. 263
 Hill, Thomas. 601, TU210
 Hilscherova, Klara. 240, 594, TH172, TH179, TH186, TH187, TH188, TH209, TU397
 Himmer, Theresa. WE425
 Hinderer, Matthias. WEPC04
 Hingston, James. MO119, MO131
 Hinnenkamp, Vanessa. TU318
 Hird, Cameron. 425
 Hireme, Hemi. 637
 Hiromori, Youhei. 535
 Hirose, Akihiko. MO164, MO192, WE004
 Hischier, Roland. 314, 503, 74, TU219
 Hiskia, Anastasia. 592, TH181, TH182
 Hissler, Christophe. WE386
 Hitchcock, Daniel. 348
 Hjermann, Dag. MOPC24, TU011, WE205
 Hjermann, Dag Øystein. MO380
 Hlihor, Raluca Maria. TH276
 Ho, Kevin. MO012, TU289, TU305
 Hockett, James Russell. 508
 Hodges, Geoff. 598, WE290, WE292
 Hodges, Geoffrey. 602
 Hodges, Juliet. TH290
 Hodson, Mark. 558
 Hodson, Peter. 46
 Hoeks, Selwyn. 394
 Hoellrigl-Rosta, Andreas. 433
 Hoeng, Julia. 472
 Höfer, Hubert. 266
 Hoff, Dale. TU003, TU004
 Hoffmann, Holger. 23
 Hofman, Jakub. MO121, MO200, TH146, TH148, TU146, TU420, TU421
 Hofman-Caris, Roberta. MO287, TU228
 Hofmann, Thilo. 100, MO325, MO423, MO426, TU174
 Hofs, Bas. TU228
 Hogan, Natacha. MO263, WE293
 Hogeback, Jens. 433, WE057
 Höger, Stefan. 560, MO202, WE378, WE382, WE383
 Hogstrand, Christer. TH041, TU379
 Hohenthal, Catharina. TU105
 Holbeck, Henrik. 662
 Holdway, Douglas. TH317, WE016, WE017, WE031
 Holland, Aleicia. 409
 Hollander, Anne. WE267
 Hollebone, Bruce. 106
 Hollender, Juliane. 20, 231, 239, 301, 365, MO158, TH036, TH169, TUPC05
 Hollert, Henner. 163, 240, 296, 301, 458, 487, 489, 51, 52, 550, 570, MO162, MO261, MO266, MO270, MO449, MOPC04, TH039, TH070, TH211, TH215, TH216, TH258, TH299, TH302, TU095, TU185, TU315, WE086, WE097, WE188, WE193, WE293, WE304, WEPC04
 Hollnagel, Heli. 265
 Holmberg, Rikke. WE072
 Holmes, Breanne. TH214, TH302
 Holmes, Carla. 523
 Holmes, Christopher. 339, 358
 Holmquist, Hanna. 261, 262, MO097
 Holmqvist, Jenny. 586, WEPC08
 Holmstrup, Martin. MO437
 Holterman, Henk Jan. MO149, MO150, MO151, TH275
 Holzmann, Hannah. WE054
 Homer, Amelia. TH023
 Hommen, Udo. 34, MO358, WE155
 Hong, Jinsol. TH134
 Hong, Sang Hee. TU194, WE410
 Hong, Yeong-wan. TU136
 Honsell, Giorgio. 654
 Hoogeweg, Gerco. MO141, MO143
 Hoondert, Renske. TUPC17, WE181
 Hop, Haakon. TH031
 Hoppe, Martin. 96, MO394, MO395
 Horemans, Nele. WEPC03
 Horie, Masanori. TH270
 Horlacher, Stefan. 194
 Hornek-Gausterer, Romana. 432
 Horney, Peter. 64
 Horton, Alice. TU166
 Horvat, Milena. 123, MO353
 Höss, Sebastian. TH123, TH149, WE187, WE189
 Hostettler, Lu. MO175
 Hötter, Hermann. MO225
 Hotopp, Ines. MO066
 Hotz, Simone. WE086, WE188
 Hou, Rui. TH035
 Houde, Magali. MO284
 Houtman, Corine. 632
 Howard, Daryl. WE184
 Hrenchuk, Lee. MO179
 Hristov, Delyan. MO408
 Hristozov, Danail. 325
 Hsu-Kim, Heileen. 121
 Hu, Jing. TH042
 Hu, Xindi. 576, 640
 HU, Xuelei. TH072
 Huang, Beibei. MO277
 Huang, Chen-Chen. TU276
 Huang, Cong. WE128
 Huang, Lei. 333, MO090, MO098
 Huang, Ying. MO293
 Hubaud, Jean-Claude. 590
 Hüben, Michael. TU151
 Hübner, Uwe. MO296
 Huck, Viola. MO127
 Hudson, Michelle. TU078, TU080
 Huemmler, Anna. TH154
 Huerta, Belinda. MO311
 Huesgen, Pitter. TH039
 Hüffer, Thorsten. 160, MO325, MO426, TU174
 Hug, Christine. MO285
 Hughes, Christopher. 67, MO434, TU287
 Hughes, Greg. WE373
 Hughes, Gregory. MO131, MO132, MO382, WE203
 Hughes, Lauren. TU360
 Hughes, Sarah. 170
 Hulin, Marion. TU375
 Hull, Richard. MO454
 Hultman, Jenni. WE115
 Hultman, Maria. MO178
 Humbert, Clément. WE114
 Humbert, Sebastien. 377, WEPC27
 Humphrey, Chris. 305
 Hund-Rinke, Kerstin. 435, 96, MO394, MO395, TH084, TH085, TH086, TH093, TH154, TU118
 Hungerbuehler, Konrad. TH169
 Hunka, Agnieszka. TH126
 Hunter, Wesley. 493
 Huppertsberg, Sven. MOPC09
 Huppertz, Tom. WE263
 Hurley, Rachel. 221, 222, TU161, TU162
 Hursthouse, Andrew. TU081, WE310
 Husson, Angélique. 215
 Hutchins, Michael. 429
 Hutchinson, Tom. 601
 Huteau, Viviane. 227, 612
 Huysman, Steve. 614
 Huysveld, Sophie. 499
 Huzlik, Jiri. WE421
 Hvezdova, Martina. MO121, TH146, TH148, TU420
 Hylland, Ketil. MO035, TH027, WE331
 Hystad, Perry. TU388
 Hönemann, Linda. 402

I
 Iakunin, Maksim. WE277
 Iavicoli, Sergio. MO418
 Ichisugi, Yuki. TU104
 Idowu, Ifeoluwa. MO027, MO033
 Igos, Elorri. WE228
 Iguchi, Taisen. 660
 Ihara, Mariko. WE011
 Ihara, Masaru. WE011
 Ihm, Yang-Bin. MO134
 Ikaraoa, CI. TU394
 Ikarashi, Yoshiaki. MO192
 Ikenaka, Yoshinori. WE246
 Ilic, Mila. MO020, TU279
 Illig, Jens. WE384
 Im, Hyungjoon. TH224, TU206
 Imbert, Enrica. TH229
 Imhof, Hannes. 279, MO316
 Indriðason, Hallgrímur. WE240
 Ingersoll, Christopher. 508
 Inglessis, Marco. TU402
 Ingwersen, Wesley. MO392, TU106
 Innerebner, Gerd. TH246
 Inocentes, Núrýa. WE327
 Inostroza, Pedro. WEPC05
 Inthavong, Chanthadary. MO210, MO211
 Ioppolo, Giuseppe. 624
 Ippolito, Alessio. 327
 Irato, Paola. TH194, WE075
 Irazola, Mireia. MOPC20
 Irmer, Andreas. MO207
 Irvine, Cameron. WE425
 Isaac, Nick. TU010
 Isaksson, Elisabeth. 69
 Isasa, Marina. TU229, TU232
 Isazadeh, Siavash. WE089
 Ishi, Yoichiro. 535
 Ishibashi, Hiroshi. MO173
 Ishikawa, Motoko. TU067
 Ishizuka, Mayumi. WE246
 Islam, Shofiquel. TU071
 Islas-Flores, Hariz. MO037, WE085
 Issa, Semona. TU296
 Issler, Dieter. 223
 Itsubo, Norihiro. TU104, WE232
 Itten, René. MO106, TU231
 Iturria, Iñaki. TH063, TH225
 Iversen, Karine. MO332
 Iversen, Niels. TH020
 Ivleva, Natalia. 192, MOPC07
 Iwasaki, Yuichi. MO231
 Iwuoha, Emmanuel. MO295
 Izagirre, Urtzi. 389, MO007, MO009, MO025, MO029, TU070

J
 Jaabiri Kamoun, Ikram. TH118
 Jacob, Matthieu. MO101
 Jacob, Sabrina. TU064
 Jacob, Stefanie. WE015, WE080
 Jaensch, Stephan. TH119, TU001

Jaffe, Jenny. MO070
 Jäger, Martin. WE196
 Jager, Tjalling. MO032, MO356, TU201
 Jahnke, Annika. MO440, MO441, TU158
 Jaikumar, Gayathri. TU180
 Jaka, Oihane. TH063, TH225
 Jakobi, Oliver. MO360
 Jakovljević, Dragica. TU273
 Jakovljević, Ksenija. WE166
 Jakubowska, Agata. TUPC09, TUPC10
 James-Casas, Alice. 304
 Janda, Joachim. 247, TU264
 Jandova, Vilma. WE421
 Janer, Gemma. TU344, WE308
 Janousek, Raphael. 575
 Jansch, Stephan. 266, TH127, TH129
 Jansen, Christian. TU266
 Jansen, Leen. MO376
 Janssen, Colin. 614, WE281
 Janssen, Elisabeth. 595, TH166
 Janssen, Martien. 260, 322
 Janssens, Lizanne. 366, WE330
 Jantunen, Liisa. 334, TU354, TU369, WE050
 Januskaitiene, Irena. WE348, WE350
 Janz, David. 50, MO252
 Janz, Philipp. 25, MO221
 Jarosz, Emil. 667
 Jaskulak, Marta. 383, TU066
 Jaspers, Veerle. MO072, MO080, MO081, TU296, TUPC20
 Jass, Jana. TU069, TU254
 Jeckel, Nina. TU182
 Jegede, Kayode. TH132
 Jekel, Martin. 158
 Jeker, Lukas. TU057
 Jeltsch, Florian. 400
 Jemec Kokalj, Anita. MO397, TU184
 Jene, Bernhard. MO136
 Jenkins, Amanda. TH033
 Jenkins, Carole. TU045
 Jenkins, William. 294, WE396
 Jenner, Karen. MO175, TH236, WE388
 Jensen, Anders. MO328
 Jensen, Henning. TU011
 Jensen, Kathleen. MO159
 Jensen, Rasmus. TU409
 Jenssen, Bjorn. MO072, MO080, TH199, TUPC20
 Jeon, Bogyung. TU136
 Jeon, DaRae. MO154
 Jeon, Hwangju. MO242, TH200, TU351, TU352, WE247
 Jeon, Hyun Pyo. TH071, TH249, WE127
 Jeon, Junho. WE355
 Jeong, Chang Bum. 292, 648
 Jeong, Chang-Bum. 290
 Jeong, Jaeseong. TH322, WEPC06
 Jeong, Seung-Woo. WE430
 Jeong, Yoonah. TH071, TH249, WE127
 Jewell, Kevin. MO296
 Jha, Awadhesh. 459, 460, 526, MO174, MO253, TU108, WE291, WE399
 Ji, Kyunghee. 49, MO233, TU136
 Jiang, Jinlin. TH121, TH191
 Jiang, Xiaogang. 597
 Jiang, Xiaoman. 65
 Jimena, Cazenave. WE302
 Jimenez, Begona. MO062, MO063, TU408
 Jimenez del Barco Carrion, Ana. TU224, WE224
 Jiménez-Cárceles, Francisco José. WE270, WE332
 Jin, Xin. MO443
 Joachim, Sandrine. WE361
 João Rocha, Maria. MO138, MO431
 Joassard, Lucette. TU186
 Jobin, Michel. WE248
 Jobling, Susan. WE030
 Joerss, Hanna. TH100
 Johann, Sarah. 163
 Johanning, Karla. TH033, TH042
 Johanson, Gunnar. TH112
 Johansson, Karin SL. 311
 Johansson, Rebecca. WEPC21
 John, Vanderley. MO388
 Jöhncke, Ulrich. 432
 Johnsen, Trond. MO072, MO080, MO081, TUPC20
 Johnson, Allie. TU415
 Johnson, Andrew. 208
 Johnson, Matthew. 281
 Johnson, Nathan. MO350
 Johnson, Wesley. MO027, MO033, MO251
 Johnston, Emma. 309, 362, WE358
 Johnston, Helinor. TU096
 Johnstone, Christopher. 201, TU331
 Joll, Cynthia. 78
 Jolley, Dianne. 409, 507, 613, WE184, WE185
 Jolliet, Olivier. 318, 333, 375, 377, 380, 642, MO090, MO098, TH243, TH290, TU406, WE264
 Jönander, Christina. TH294
 Jonas, Adam. 594
 Jones, Ainsley. MO070
 Jones, Alan. WE376
 Jones, Ben. TU061
 Jones, Jenifer. 596
 Jones, Kevin. WE353
 Jones, Lisa. MO298, MO299
 Jones, Nick. 5
 Jones, Paul. TH256
 Jones, Russell. 3, MO119
 Jones, Wendelyn. WE219
 Jonker, Michiel. MO203
 Jonsson, Annie. WE282
 Jönsson, Christina. 261, 262, TU150
 Jonsson, Micael. 203
 Jónsson, Thorbergur Hjalti. WE240
 Joonas, Elise. TH265, TU021
 Joossens, Elisabeth. TH050
 Jordão, Rita. 537
 Jorge, Marianna. 643, TH220
 Jorge, Rodolfo. 535
 Jorgenson, Zachary. 659
 Joss, Adriano. MO289
 Jouanneau, Sullivan. TU282
 Jouini, Meriem. MO094
 Jouni, Fatina. WE248
 Jourdan, Aline. WE379
 Journal, Blandine. MO152, MO450
 Jovanovic, Boris. WE407
 Jovanović, Slobodan. WE166
 Joyce, Fiona. TU002, TU339, WE373
 Juarez, Angela. WE161
 Juergens, Monika. 208
 Juhel, Guillaume. MO439, WE342
 Juknys, Romualdas. WE348, WE350
 Jung, Jin-Woo. TUPC18
 Jung, Jinho. TH224, TU206
 Jung, Youn-Joo. TU194
 Jung, Younjung. TH201
 Junghans, Marion. 302, 303, TH217, TU197
 Junker, Thomas. TU270
 Junqua, Guillaume P. 132, 197, MO093
 Junqué, Eva. MO339
 Junttila, Ville. MO339
 Juozapaitienė, Gintarė. WE347, WE348, WE350
 Jürgens, Frederike. WE422
 Jurina, Tamara. 79
 Jurkoniene, Sigita. WE322
 Jusi, Cynthia. WE105
 Jutfelt, Fredrik. TU328
 Jutkina, Jekaterina. 514
 Jütte, Tobias. TU048
 Jørgensen, Kirsten. MO004, MO017

K

Kabouw, Patrick. TU001
 Kacienė, Giedrė. WE348, WE350
 Kacprzak, Małgorzata. TU066
 Kaegi, Ralf. 448, 98, MO419, MO422
 Kaeppler, Andrea. MO317
 Kaestner, Matthias. 487, WE061
 Kagawa, Shigemi. MO110, TU220, TU221, TU404
 Kage, Henning. MO393
 Kah, Melanie. 584, MO426
 Kahl, Michael. MO159
 Kahlert, Maria. 311, WE286
 Kahru, Anne. TU021, TU120
 Kaišarevič, Sonja. 550, MO258, MOPC01
 Kaiser, Jean-Pierre. 74
 Kaiser, Maria. MO375
 Kajankari, Paula. WE339
 Kálai, Tamás. WE056
 Kalantzi, Ioanna. WE204
 Kalbar, Pradip. 255
 Kalcikova, Gabriela. TU184
 Kalinowski, Jörn. WE279
 Kalkhof, Stefan. 52
 Kallenborn, Roland. WE126
 Kalman, Judit. WE309
 Kalogianni, Eleni. 424
 Kaloudis, Triantafyllos. 592, TH162, TH181, TH182
 Kalsnes, Bjørn. WEPC10
 Kamardin, Nikolai. WE338
 Kamari, Abderrahmane. TU195
 Kameda, Yutaka. TU054, TU159
 Kampa, Bjoern. MO270
 Kamper, Anja. WE388
 Kämpfer, David. TH211
 Kampmann, Kristoffer. MO328
 Kamstra, Jorke. TH198, WE296, WEPC02
 Kandeler, Ellen. 487
 Kandile, Nadia. 641, TH245
 Kanemoto, Keiichiro. MO113
 Kang, Beonghun. TU424
 Kang, Habyeong. TH065
 Kang, Hye-Min. 290, 292
 Kang, Seung-hun. TH252
 Kang, Sung-Ho. MO321
 Kankaanpää, Harri. MO004
 Kapanen, Anu. 432, 586
 Kapo, Katherine. 358
 Kappler, Kelly. WE018
 Karaaslan, Muhammet. TH221, TH223
 Karaiskou, Georgia. WE153
 Karakassis, Ioannis. 308
 Karamertzanis, Panagiotis. 267
 Karamertzanis, Panagiotis. TU006
 Karaoglan, Bilgin. 561
 Karaouzas, Ioannis. 424
 Karapanagioti, Hrisi. MO329
 Karimpour, Shooka. 131
 Karjalainen, Ari. 586
 Karkman, Antti. 514
 Karlsson, Therese. TH030
 Karnatz, Svenja. TH070, WE188
 Karolak, Sara. MO275
 Karouna-Renier, Natalie. MO082
 Karrman, Anna. 649, WE126
 Karstensen, Johannes. TH006
 Kase, Robert. 240, 303
 Kashiwada, Shosaku. MO231, TH270, WE317
 Kaßner, Franziska. TH053
 Kassara, Christina. MO065
 Kassaye, Yetneberk. TH319
 Kassotaki, Elissavet. MO289
 Kaste, Oeyvind. TU304
 Kästner, Matthias. 432, 60, 68, WE059
 Katakam, Subhavana. TU290
 Kataoka, Chisato. WE317
 Kato, Daisuke. WE011
 Kato, Yasuhiko. 293
 Kato, Yumie. MO231, WE317
 Katsiadaki, Ioanna. 599
 Katsumiti, Alberto. MO010, TH025, WE323
 Katz, David. TH102
 Katzschner, Imme. WE279
 Kauffmann, Kira. MO162
 Kaufhold, Stephan. 96
 Kauhala, Kaarina. TU205
 Kaune, Andreas. 244
 Kay, Paul. WE135
 Kayode, Joy. WE008
 Kazakova, Julia. WE102
 Kazemi, Ali. MO390
 Kee, Faith. 496
 Keenan, Rob. WE242
 Kefford, Ben. WE271
 Keinänen, Markku. 110, MO237
 Keiter, Steffen. 649, MO254, TH214, TH302
 Keizer, Jan. MO059
 Kell, Sarah. MO326
 Keller, Nicolas. WE092
 Keller, Regula. MO106, TU231
 Keller-Spitzer, Valerie. WE092
 Kelley, Barbara. MO186
 Kelly, Barry. MO439, WE342
 Kelly, Frank. 155
 Kenanoğlu, Göksu. TH223
 Kennedy, Todd. TH116
 Kent-Willette, Annmarie. WEPC12
 Kerkhof, Odile. 171
 Kern, Matthew. 496
 Kern, Susanne. TH236
 Kfoury, Adib. 225
 Khachatryan, Artak. 386
 Khachatryan, Vahagn. WE060
 Khafipour, Ehsan. 635
 Khan, Farhan. MO327, MO328
 Khan, Jong Beom. 449
 Khan, Md Firoz. TU387
 Khlobystov, Andrei. 526
 Kho, Young Lim. TH287, WE131
 Kholodkevich, Sergey. WE338
 Khundzhua, Daria. 532
 Khursigara, Alexis. MO015
 Kickbush, Jocelyn. MO338
 Kickish, Joshua. 596
 Kienle, Cornelia. 240
 Kienzler, Aude. 170
 Kienzler, Aude Emma. 552, MO165, TH040, TH048, TH050, TH051
 Kierkegaard, Amelie. TH259
 Kießling, Tobias R. 171

Kilgallon, John. TH290
 Kille, Peter. 235
 Kim, Byung Joon. MO154
 Kim, Chansub. MO134
 Kim, Chloe. MO323
 Kim, Dasom. TH009
 Kim, Dokyung. TH197, TU149, WE158, WE159, WE160
 Kim, Dong-Myung. MO305
 Kim, Eunhye. MO154
 Kim, Hayoung. TU424
 Kim, Hyeong-Mi. MO242, TH200, TU351, TU352, WE247
 Kim, Ik. TU098
 Kim, Injeong. TU401
 Kim, Jaehoon. TH073
 Kim, Jaeshin. 9
 Kim, Jeong-Han. MO154
 Kim, Jeong-Hoon. TUPC18
 Kim, Ji-Su. MO323
 Kim, Jiyeong. MO378
 Kim, Jun Yub. MO224
 Kim, Jun-Tae. TUPC18
 Kim, Ki Eun. WE403
 Kim, Kitae. MO269
 Kim, Kyeongnam. MO242, TH200, TU351, TU352, WE247
 Kim, Kyoung-Woong. MO224
 Kim, Minjeong. MO378
 Kim, Moon-Kyung. WE131
 Kim, Sang Don. MO224, TU277, TU401, WE174
 Kim, Sanghun. MO378, TH071
 KIM, Seohyun. MO154
 Kim, Seung-Kyu. MO321, MO323
 Kim, Shin Woong. TU149
 Kim, Sungmin. TH287, WE131
 Kim, Sunmi. TH287
 Kim, Sunyoung. MO305
 Kim, Woo-Keun. TU134
 Kim, Woojung. WE174
 Kim, Yong-Chan. MO242, TH200, TU351, TU352, WE247
 Kim, Yongeun. TH134, TH142
 Kim, Yoonkwan. TH073
 Kim, Young Jun. TH201, TH271, TU137
 Kim, Young-Mog. MO305
 Kim, Youngho. MO167
 Kimmel, Stefan. 560, TU045, TU047, TU048
 Kimpe, Linda. 407, 645
 Kimura, Susana. MO272
 Kimura-Hara, Susana. MO293
 Kind, Barbara. MO126
 King, Catherine. 613
 King, Chryssa. TH060
 King, Elizabeth. WE120
 King, Henry. 14, MO391
 Kinoshita, Ayako. 408
 Kinsley-Willis, Fergus. 523
 Kirby, Mark. TH257
 Kirkwood, Andrea. WE031
 Kirla, Krishna. MO271
 Kisielius, Vaidotas. TH158
 Kitamura, Daiki. MO231
 Kitchener, Andrew. 87
 Kiwiet, Jean. MO049
 Kjelleberg, Staffan. 309
 Kjos, Marianne. WE095
 Klaer, Cassandra. WE097
 Klaminder, Jonatan. 203, TU023
 Klankermayer, Jürgen. 259
 Klanova, Jana. TU408
 Klaper, Rebecca. 661
 Klapstein, Sara. MO337, MO338, MOPC26, WE242
 Klaschka, Ursula. WEPC07
 Kleene, Lisa. WE310
 Klehm, Jessica. MO411
 Klein, Judith. MO358
 Klein, Michael. 430, 431, 6, 67, WE051
 Klein, Olaf. 328, TH117, TU042, TU048
 Klein, Roland Friedrich. 209
 Kleinekorte, Johanna. TU097
 Kleiner, Wibke. TH017
 Kleinhenz, Marco. TU041
 Kleinmann, Joachim. 59, MO126, TU059
 Kleiven, Merethe. WE408
 Klement, Ales. 453, WE150
 Kley, Carolin. MO129
 Kloas, Werner. TH017
 Kloeckner, Philipp. 159, 280
 Klopp, Christophe. 410
 Kloppman, Wolfram. MO296
 Klüver, Nils. 171
 Knaebe, Silvio. 399, TH117, TU041, TU042, TU048, WE384
 Knapen, Dries. 598, 599, MO256, MO259, TH067
 Knapp, Charles. 518, WE276, WE401
 Knautz, Timm. WE301
 Knepper, Thomas. 141, 371, 575, MOPC09, TH101
 Knezevic, Varja. MO258, MOPC01
 Kniazev, Igor. TH289
 Knibbe, Willem-Jan. 370
 Knillmann, Saskia. 555, 6
 Knöbel, Melanie. 168
 Knopf, Burkhard. 39, MO409, TH093, TH248
 Knudsmark Sjøholm, Karina. 66, MO435
 Knutz, Thorsten. TU024
 Ko, Fung-Chi. MO448
 Koba, Olga. 453, WE150, WE351
 Kobayashi, Norihiro. MO192
 Kober, Eugen. 220
 Kocarek, Martin. 453
 Koch, Josef. TH210, TU204
 Koch, Paul. TU272
 Kodes, Vit. TH106, TH240
 Kodesova, Radka. 453, WE150
 Koehle-Divo, Vanessa. 528
 Koehler, Christian. 137
 Koelmans, Albert. 218, 339
 Koelsch, Peter. TH226
 Koenig, Maria. 296, 572
 Koenig, Wolfram. 3, MO146
 Koennecker, Gustav. WE026
 Koerner, Wolfgang. MO230
 Koerth, Jana. WEPC10
 Köhler, Heinz. MO038, TU175, TU179
 Kohler, Shanelle. 513, TU325, TU326, TU338
 Kohnno, Satomi. TH057
 Kolar, Boris. MO383
 Kolesnikovas, Cristiane. MO079
 Kolev, Spas. MO273
 Kolkman, Annemieke. MO287, WE077
 Kolosova, Elizaveta. WE217
 Kolter, Sheldon. TU165
 Kölzer, Uschi. MO148
 Kondo, Yasushi. MO110
 Könemann, Sarah. TU333, WE097
 Königer, Paul. 96
 Kono, Susumu. MO173
 Konradi, Sabine. WE024
 Konschak, Marco. TU028, WE105, WE176
 Kooij, Pascal. WE077
 Kookana, Rai. 584
 Kools, Stefan. MO287, MO384, TU228
 Koppe Grisolia, Cesar. MO267
 Koppel, Darren. 613
 Koprivsek, Maja. 359
 Korbel, Kathryn. 362
 Korkaric, Muris. 303
 Korn, Victoria. TH060
 Korosi, Jennifer. 645
 Kortenkamp, Andreas. 298, 299, 300, 551, 554
 Korzeniowski, Stephen. WE074
 Koschorreck, Jan. 404, 605, MO441, TH109, WE047, WE078, WE256
 Kosfeld, Verena. MO158, WE047
 Kosmala, Sylwia. 306
 Kostanjevecki, Petra. 79
 Kostanjevečki, Petra. MO292
 Koster, Margie. TH217
 Kosubova, Petra. MO121, TU420
 Kosugi, Yuki. WE004
 Kotnik, Joze. 123
 Kotoulas, Georgios. 308
 Kotschik, Pia. 616, TH119, TH129
 Kotterman, Michiel. 544
 Kotthoff, Matthias. 52, TH109
 Koura, Jessica. WE220
 Koutinas, Apostolis. TU234
 Koutsaftis, Apostolos. TH124, TH155
 Kovačević, Marija. TU416
 Kovacs, Kit. 28
 Kovel, Ekaterina. 530, WE210
 Kowalczyk, Agnieszka. MO385
 Koyuncu, Ismail. MO402
 Kraak, Michiel. 126, 629, TH207, TH208, WE178, WE179, WE195, WEPC14
 Kraas, Marco. 96, MO394, MO395
 Kraft, Philipp. MO125
 Kraiss, Stefanie. TU175, TU179
 Krakowian, Daniel. MO076
 Kramer, Amber. 289, TU400
 Kramer, Vincent. 497
 Kramm, Johanna. TH032
 Kranenburg, Richard. 73
 Krasnec, Michelle. 104
 Krasnov, Aleksei. 110, MO236, MO237
 Kratasyuk, Valentina. 529, WE212, WE216, WE217
 Krauss, Martin. 19, 233, 239, 296, 458, 51, 572, 594, 667, MO212, MO285, TH213, TH215, TH216, TU113, TU133, TU317, WEPC05
 Krebs, Florian. MO125, MO137
 Kreling, Nicole. WE044
 Kreuger, Jenny. 3, 311
 Kreutzer, Georg. TH236
 Kreuzer, Knut. TH248
 Kristiansen, Kurt. MO194
 Kristiansen, Silje Marie. MO035
 Kristoff, Gisela. TU119
 Krizman-Matasić, Ivona. 79
 Krkošková, Lucia. MO121
 Kročová, Klára. WE432
 Kroesen, Sven. 663
 Kröger, Franziska. MO120
 Krohn, Regina. MO001, TU077
 Kroll, Alexandra. TU151
 Kroll, Kevin. 539
 Kronberg-Guzman, Jaanika. 476
 Kronenberger, Hadrien. TU032
 Kronsbein, Anna. WE048
 Kropf, Christian. TH041, TH212, WE046
 Krueger, Hank. TU045, WE155
 Krueger, Henry. 401
 Kruse, Jens. 487
 Kruse, Mike. 252, TU151
 Kryuchkova, Olga. WE213
 Kubíčková, Barbara. TH186, TH187
 Kubilė, Lina. WE347
 Kubitz, Johanna. WE164
 Kubowicz, Stephan. WEPC21
 Kudryasheva, Nadezhda. 530, WE210, WE211, WE218
 Kuehn, Susanne. MO319
 Kuehnel, Dana. TH084, TH085, TH086
 Kuemmerer, Klaus. TU278
 Kuhl, Katrin. MO361, WE164
 Kuhl, Roland. 302
 Kuhlbusch, Thomas. TH084, TH085
 Kühne, Ralph. MO203, TH054, WE067
 Kühnel, Dana. TU158, WE300
 Kühn, Sebastian. MO409, MO411, TH093
 Kuinke, Jessica. TU318
 Kukkonen, Jussi. 110
 Kukucka, Petr. TU397
 Kulec-Ploszczyca, Elzbieta. MO076, TH254, WE393
 Kuling, Lody. 198
 Kulyabko, Lyubov. 533
 Kumar, Anu. 646
 Kumar, Ayush. 635
 Kumar, Vikas. TH075, TU393
 Kümmerer, Klaus. 36
 Kümlich, Francesca. TUPC11, WE377
 Kundy, Lone. WE015
 Kung, Tiffany. 496
 Kunz, Stefan. 365
 Kuo, Jin-Liang. WE299
 Kuperman, Roman. TH138
 Kurahara, Yoko. WE232
 Kurimoto, Masayuki. MO164, MO192
 Kurt-Karakus, Perihan. TU369
 Kusche, Oliver. TU099, TU100
 Kusebauch, Bjoern. WE044
 Kuspilic, Grozdan. 123
 Küster, Eberhard. 53, 667, TU322
 Kutsarova, Stela. 356, WE067
 Kutscher, Daniel. WE123
 Kutuzović Hackenberger, Branimir. TU416
 Kuznetsova, Tatiana. WE338
 Kvasnicka, Jacob. 380, 642
 Kwak, Jin Il. TH197, WE158, WE159, WE160, WE409
 Kweza, Motuli. TU076
 Kwon, Hyun-ah. MO378, TH071, TH249, TH271, WE127
 Kwon, Joon Yub. TH247
 Kydralieva, Kamila. 533
 Kylin, Henrik. MO056, TU125

L

La Carbona, Stéphanie. 515
 La Monica, Marco. 625
 La Torretta, Teresa. 285
 Labadie, Pierre. MO300, TH108, TH241, TH242, TU203, TU306, TUPC21
 Labille, Jerome. 590, TH090
 Laboha, Petra. TH186, TH187
 Laborie, Stéphanie. 227
 Labrenz, Matthias. MO317
 Lacave, Jose María. TH025

Lacchetti, Ines. MO296, TU315, TU316, WE039, WE040, WE081
 Lachnit, Tim. 309
 Laden, Francine. 640
 Ladermann, Kim. 149, MO357, MO362, MO364
 Ladu, Luana. TU234
 Lafay, Florent. TH111
 Laffite, Amandine. 519
 Laforsch, Christian. 279, 342, MO316, TU154, TU155, TU191
 Lagarde, Fabienne. 524, MOPC08, TH003, TU195
 Lågbu, Roar. 64
 Lagesson, Annelie. 203
 Lagneau, Vincent. 215
 Lahive, Elma. 235, MO405
 Lahm, Armin. 615, TU029
 Lahmar, Abdeljalil. TU282
 Lahr, Joost. 435
 Lai, Chih. TH288, TH323
 Lai, Foon Yin. TH067
 Lai, Racliffe. MO012
 Lai, Weng Seng. WE311
 Laiho, Asta. 110, MO236, MO237
 Laing, Lauren. WE298, WEPC01
 LaLone, Carlie. 598, 603, 660, MO159, MO193, MO194, TH034, TU003, TU004
 Lam, Chung-Sum. MO012
 Lam, Monika. MO433
 Lamann, Karsten. MO272
 Lammel, Gerhard. TU397
 Lammel, Tobias. 527
 Lamoree, Margaretha. 632, MO250
 Lamouroux, Nicolas. 133
 Lamparter, Axel. 96
 Lampi, Mark. MO006, MO186
 Lamprecht, Jonas. TU173
 Lamshoeft, Marc. 2, MO148
 Lamy, Isabelle. TH143
 Lan, Yu-Ching. TU390
 Lance, Emilie. TH177, TH193
 Lanchec, Romain. WE379
 Lanctot, Chantal. MO329
 Landesmann, Brigitte. 600
 Landi, Claudia. WE305
 Landis, Amy. MO115
 Landis, Wayne. 94, MO180, MO368, TH321
 Landmann, Madlen. MO440
 Lane, Joe. TU406
 Lane, Julie. 205, MO073
 Lane, Taylor. 634, MO252, MO263, WE293
 Lanera, Pasquale. TU012
 Lanfranconi, Arnaud. 562
 Lang, Claudia. TUPC11, WE377
 Lang, Thomas. MO034
 Langa, Elisa. TU348
 Langan, Laura. 459, MO174, MO253
 Lange, Anke. 454
 Lange, Frank Thomas. 247, TU264
 Langenheder, Silke. TU269
 Langenhoff, Alette. WE133
 Langer, Miriam. TH217
 Langerholc, Tomaz. MO345
 Langlois, Juliette. 134
 Langone, Leonardo. WE091
 Langridge, Garry. 5
 Lannergård, Emma. TU168
 Lanzoni, Ilaria. WE194
 Lao, Jia-Yong. TU414
 Lapczynski, Aurelia. MO453, TH033
 Lapen, David. 362, 363
 Lara-Martin, Pablo Antonio. 20, TH037
 Lari, Ebrahim. TU341
 Larisch, Wolfgang. MO455
 Larondelle, Yvan. WE028
 Larras, Floriane. 474, TU027, WE368
 Larrea-Gallegos, Gustavo. 376
 Larsen, Morten. 47
 Larsson, Joakim. 514, WE083
 Larsson, Maria. 649, MO433, TH214, TH302
 Laskowski, Ryszard. 91, TH145
 Lassalle, Guillaume. 45
 Lasters, Robin. 84
 Lastumäki, Anu. MO034
 Lathuilliere, Michael. 131, MO093
 Latifovic, Lidija. TU354
 Latrille, Eric. 16
 Lau, Calvin. 522
 Laubscher, Valérie. 571, TH212, WE046
 Laucht, Silke. MO077
 Laue, Heike. MO175, TH042
 Lauga, Beatrice. MO133
 Laurent, Alexis. 143, MO111
 Laurent, Céline. TH143
 Laurent, Flore. TH228
 Laurent, Hervé. 276
 Laurenza, Luigi Cristiano. WEPC23
 Lautz, Leonie. WE181
 Lava, Roberto. WE075
 Lavison-Bompard, Gwenaëlle. MO211
 Lavorano, Silvia. TU131, TU308
 Lavorgna, Marino. TU090
 Lawler, Jenny. MO298, MO299
 Lawniczak, Stéphanie. WE402
 Lawrecne, Zoë. 523
 Lawrence, Alan. TU339, WE373, WE389
 Lawton, Linda. 593
 Laycock, Adam. MO423
 Lázaro Rodríguez, Beatriz. WE093
 Lazorchak, James. 596, TH160, TH190
 Lazzarelli, Alessandra. WE069
 Le, Yen. 355
 Le Cunff, Vincent. TU282
 Le Faucheur, Séverine. MO333, MO336
 LE Guedard, Marina. TU017
 Le Menach, Karyn. TH026, TH108, TU268, TU306, TU422, TU423
 Le Navenant, Adrien. TU299, WE250
 Le Page, Gareth. WE104
 Leads, Rachel. MO326, MOPC10
 Leake, Christopher. 434
 Leandro, Sérgio. WE385
 Leão, Susana. 197
 Lebert, Alexandra. TU102
 Lebertz, Stephan. 575
 Leblanc, Judith. MO030
 Lechón, Yolanda. MO104, TH305
 Leclerc, Alexandra. 143, MO111
 Leclerc, Maxime. MO333
 Ledesma, José. TU168
 Ledoux, Frédéric. 225, TU405
 Lee, Aram. TH287
 Lee, Bo-Mi. 449
 Lee, Changgun. 316, TH316
 Lee, Dong Soo. WE103, WE403
 Lee, Gowoon. TH065
 Lee, Hee-Dong. MO134
 Lee, Hee-Jee. MO321
 Lee, Ho Gyun. TH247
 Lee, Hyeri. 449
 Lee, Hyojin. MO269
 Lee, Hyunho. MO167
 Lee, Inae. TH287
 Lee, Iwa. 412
 Lee, Jae-Seong. 290, 291, 292, 536, 648, WE356
 Lee, Ji-Young. WE131
 Lee, Jiho. MO154
 Lee, Jiyun. 49, MO233, TU136
 Lee, Jong-hwa. MO154
 Lee, Jung Hak. MO154
 Lee, Jung-Eun. WE131
 Lee, Kiyoung. TU356, TU357
 Lee, Min-Chul. 536
 Lee, Minyoung. TH134
 Lee, Sangwoo. TU134
 Lee, Sehan. MO194
 Lee, Seungbaek. MO167
 Lee, Sung-Eun. MO242, TH200, TU351, TU352, WE247
 Lee, Sunjin. MO269
 Lee, Wei Kit. MO439, WE342
 Lee, YeonKyeong. TH319
 Lee, YoungHwan. 292
 Lee, Youngmin. WE131
 Lee, Yun-Sik. TH134, TH142
 Lee, Yung-Shan. 669
 Leermakers, Martine. 215
 Leeto, Petrus. MO209
 Leflaive, Joséphine. TU298
 Lefranc, Marie. WE191
 Leganes, Francisco. 525, TH002
 Legay, Stéphane. WE419
 Legeay, Alexia. 491, MO087
 Legler, Juliette. 480, WE030
 Legradi, Jessica. 240, MO261, MO266, MO270
 Legras, Marc. TU365
 Legros, Samuel. TH153
 Lehmann, Annekatrin. 75
 Lehmann, David. 328
 Lehmann, Sylvia. 590
 Lehtonen, Kari. MO004, MO017, MO029, MO034
 Lei, Ying. MOPC23
 Leim, Dietlinde. MO038
 Leinaas, Hans Petter. MO035
 Leipold, Sina. 254, TU226, TU227
 Lekube, Xabier. MO009
 Lemaire, Philippe. TU293
 Lemal, Laure. TH153
 Lemańska, Natalia. MO076, TH254, WE393
 Lembo, Giuseppe. TU261
 Lembrich, David. MO137
 Lemche, Iris. TH239
 Lemkine, Gregory. MO190, MOPC05
 Lemm, Jan. 359
 Lemos, Marco. 414, MO014, MO055, TH183, TH184, TU141, WE100, WE283, WE284, WE360
 Lencioni, Valeria. TU334
 Lenihan, Hunter. 351
 Lennartz, Gottfried. MO219
 Lennon, Rosie. TU010
 Lennquist, Anna. 324
 Leocata, Sabine. TU283
 Leombruni, Alberto. TU250
 Leonard, Angélique. MO095
 Léonard, Angélique. MO117, TU223
 Leonard, Marc. 171, 599
 Leonard, Mary. MO286
 Leonards, Pim. 261, 323, 412, MO250
 Leone, Gaetano. 420, 423
 Leontovycova, Drahomira. TH106
 Leonzio, Claudio. MO085
 Leopold, Annegaike. 486, 549
 Lepoint, Gilles. MO081
 Lepom, Peter. 644
 Lepoutre, Alexandra. TH177, TH193
 Lepsova Skacelova, Olga. TH179
 Lesage, Pascal. 17
 Lesch, Stephan. 266
 Lesch, Velesia. 408, TU145
 Leslie, Heather. 324, TU086
 Leston, Sara. WE100, WE107
 Lesven, Ludovic. MO349
 Letcher, Robert. 413, TH038, TH198, TH199
 Leter, Giorgio. TH094
 Letinski, Daniel. MO186, MO438
 Letón, Pedro. WE010, WE320
 Lettieri, Maria teresa. TH164
 Lettieri, Paola. 437, TH309, TH316
 Lettieri, Teresa. 615, TU022, TU029
 Letzel, Thomas. 368, MO280, WE149
 Leu, Eva. 426, WE353
 Leung, Cheuk Ling. TH264
 Leung, Kenneth. 307, MO012, MO013, TU289, TU305, WE311
 Leung, Kenneth Mei Yee. 602
 Leusch, Frederic. 237, 646, MO161, MO182
 Leuschner, Renata. MO157
 Leuthold, David. TU322
 Levantesi, Caterina. WE117
 Levasseur, Annie. TU225
 Levenstam, Oscar. 263, TU150
 Leverett, Dean. 99, MO410, TU314
 Levermore, Joseph. 155
 Levesque, Christine. TU367
 Levi, Yves. 612, MO275
 Lewis, Ceri. 425
 Lewis, Gavin. TH125
 Lharidon, Jacques. 249, TU281, TU282
 Li, Huizhen. MO204, WE186
 Li, Jieran. MO404
 Li, Jun. 384
 Li, Kun. WE130, WE139
 Li, Li. 337, TU360
 Li, Li-Hsuan. WE299
 Li, Roman. 472
 Li, TingYu. TU391
 Li, Yang. 660, TH204
 Li, Zhe. TU269, TU280
 Li, Zhuona. WE156
 Liao, Chung-Min. MO354, TH205, TU020, TU207, TU311, TU398
 Liber, Karsten. MO252
 Liberatore, Hannah. MO272
 Liberatori, Giulia. 382, TH013, TH014, TU147, TU147, WE245, WE302
 Liboiron, Max. TU164
 Licbinsky, Roman. WE421
 Licha, Tobias. TU024
 Liddle, Corin. 340
 Liegeois, Marie-Hélène. MO152
 Lien, Keng-Wen. TH192
 Lienala, Eeva. 601
 Lieselot, Boone. 135
 Liess, Matthias. 233, 555, 6
 Lihavainen, Jenna. 110, MO236, MO237
 Lijó, Lucía. WE222
 Lijzen, Johannes. WE267
 Lillicrap, Adam. 466, 469, MO180, MO197, WE202, WE204
 Lim, Jae-eun. TH287, TU356
 Lim, Miyoung. TU356, TU357
 Lim, Sungjin. WE145
 Lima, Ana. TU313, WE277
 Lima, Claudia. 557, TU144
 Lima, Daína. MO064, MO079

Lima, Elizabete. MO019, TU292
 Limbeck, Sophie. MO187
 Limonta, Giacomo. TH004
 Lin, Hsing-Chieh. TH185, TH205, TU020, TU311, TU398
 Lin, Hui. 65
 Lin, Jianming. WE063
 Lin, Xiao-Qian. MO288
 Lin, Yi-Jun. TU311, TU398
 Linares, Victoria. TU389
 Lind, Ole. WE334
 Lindberg, Jacob. WEPC11
 Lindberg, Johan. TH112
 Lindeman, Leif. WE296
 Linden, Lukas. WE045
 Linder-Nording, Malin. 454
 Lindhjem, Henrik. 71
 Lindim, C. 345, TH290
 Lindim, Claudia. 356
 Lindqvist, Dan Nybro. 652, TH158, TH167
 Ling, Min-Pei. TH192
 Linge, Kathryn. 78
 Linguadoca, Alberto. TH235
 Linington, Susannah. MO434
 Link, Moritz. 347, 365
 Liouisa, Varvara. MO187, MO191
 Lips, Stefan. TU027
 Lisitsa, Albert. WE217
 Liss, Dirk. 242, 244, 3, MO142
 Lissalde, Sophie. TH250
 Littler, Hannah. WE298, WEPC01
 Liu, Chun. 93
 Liu, Fan. 282, MO315, TU160, TU170, WE148
 Liu, Jing. WE319
 Liu, Jinxia. 574, TH095
 Lizier, Matteo. WE275
 Lješević, Marija. TU273
 Llamas, Juan. MO351
 Llenas, Laia. 655
 Llull, Rosa Maria. MO339
 Lo, Justin. 669
 Lo Nostro, Fabiana. MO260
 Lo Presti, Davide. 438, TU224, WE224
 Loayza, Glenda. 217
 Lobry, Jeremy. TU203
 Locatelli, Cristina. TH315
 Locky, David. TU165
 Loddo, Donato. TH246
 Lode, Torben. WE331
 Loder, Amanda. MO338
 Lodi, Marco. TU399, WE042
 Loeder, Martin. 279, MO316, TU191
 Loeffler, Dirk. 433
 Löf, Marie. 332
 Löffler, Dirk. WE057
 Lofrano, Giusy. WE387
 Lofts, Stephen. MO401, TH088
 Logtmeijer, Christiaan. 264
 Lohmann, Nina. 605, 644, WE256
 Lohmann, Rainer. TH102, TH104
 Löhr, Ansje. WEPC14
 Loiseau, Eleonore. 133, 144, 197
 Loiseau, Ludovic. 3
 Loizeau, Véronique. TU203
 Lokesh, Kadambari. 500
 Lollí, Francesco. TU218
 Lombi, Enzo. WE184
 Lončar, Jovica. 79
 Lončarević, Branka. TU273, TU279
 Lončarić, Željka. 464, TH300
 Looky, Alexandra. 665, TH040
 Loonen, Maarten. 348
 Loos, Robert. 615, TU029
 Lopes, Christelle. TH241, TH242
 Lopes, Isabel. 39, MO046, MO054, MO058, MO168, MO407, TH218, TU140, WE269, WE303, WE312, WE321, WE420
 Lopes, Maria. MO168
 Lopes-Marques, Mónica. 535
 López, Isabel. WE344, WE349
 Lopez, Manuel Fernandez. TU242
 López, Pedro. MO060, TH222
 López, Rubén Francisco. WE027
 Lopez, Sílvia. TU232
 López Antia, Ana. 84
 López de Alda, Miren. 22, MO311, MO314, MOPC21, TU313
 Lopez de Alda, Miren. 424, TH202
 Lopez-Bejar, Manel. MO078
 López-Doval, Julio C. 310
 López-Mahía, Purificación. TH103, TU176, TU190
 López-Martínez, José Francisco. MO040
 López-Perea, Jhon. MO071
 López-Serna, Rebeca. 80
 Lopičić, Srđan. TH189
 Lorenzo-Toja, Yago. TU232
 Loret, Jean Francois. 612
 Lorne, Daphné. 626
 Lostia, Alfonso. TH040, TH051
 Lostia, Alfonso Maria. TH050
 Lot, Marie-Claire. MO101, WE209
 Loubet, Philippe. 441, 72, MO091
 Louch, Rebecca. 37
 Loureiro, Susana. 234, 275, 39, 40, MO407, TH218, TH293, TU110, TU135, TU142, TU359, TU428, WEPC20
 Loutseti, Stefania. TH124, TH155, WE177
 Lowrie, Chris. WE065
 Lu, Chia-Chen. TU323
 Lu, Tien Hsuan. TU020
 Lucaroni, Francesca. TU417
 Lucas, John. TU116
 Luccarelli, Chiara. WE027
 Lucchetti, Maria. 624
 Lucentini, Luca. TU316
 Luchmann, Karim Hahn. MO064, MO079
 Lucio, Maria. MO053
 Luckenbach, Till. 667, TU113
 Lüderwald, Simon. WE092, WE105, WE176, WE335
 Ludwigs, Jan-Dieter. MO050, MO077, TU043, WE279
 Lueckmann, Johannes. 328, TU039, TU040, TU043, TU048
 Lugonja, Nikoleta. TU279
 Luini, Mara. TH233, TU088
 Luit, Richard. 322
 Luitwieler, Marloes. WEPC09
 Lukjanova, Aljona. TU120
 Lukonina, Anna. 530
 Luo, Xiao-Jun. WE251, WE255
 Luprano, Maria Laura. WE117
 Luque, Rafael. TH245
 Luquet, Carlos. WE345
 Lusher, Amy. 221, 222, MO332, WE413
 Lusic, Jelena. 123
 Luttkik, Robert. TU379
 Lutz, C. TU122, WE207
 Lutz, Stefanie. 424
 Lyautey, Emilie. TU025
 Lyche, Jan. WE206
 Lydersen, Christian. 28
 Lynch, Iseult. MO397, TU177, TU189, WE324
 Lynch, Jennifer. 606
 Lyne, Fern. TH319
 Lyng, Emily. MO028, TH234
 Lyons, Danielle. MO021, MO246
 Lyssimachou, Angeliki. WE029
 Løseth, Mari. MO072, MO080, TUPC20
 Løvøll, Grunde. TH204

M

Ma, Jane. 33
 Ma, Jianmin. TU408
 Ma, Qingli. 33
 Ma, Wan-Li. TU408
 Maack, Gerd. WE025
 Maage, Amund. 120
 Maboeta, Mark. MO400, TH120, TH139, TH141
 Macagnano, Antonella. MO335, TU410
 Macary, Francis. TU422, TU423
 Macdonald Wilson, Alicia. 489
 Maceda-Veiga, Alberto. 538
 Maceroni, Mattia. WE397, WEPC22
 Machado, Ana. 204, TU359
 Machala, Miroslav. 631
 Machate, Oliver. MO212
 Macheria, Kyriaki. 26, MO048
 Maciejewski, Kevin. TH108, TU306
 Mack, Pierre. 399, WE384
 Mackay, Cameron. 600
 Mackay, Donald. 7
 Mackay, Neil. 1
 Macken, Ailbhe. 42, 466, MO296, MO406, MO415, WE204, WE413
 MacLeod, Alexander. MO082
 MacLeod, Matthew. 11, 580, 585, TH165, TU158
 MacMillan, Gwyneth. 636
 Macnaughton, William. 281
 MacRae, James. TU112
 Macrelli, Stefano. TU233
 Madan, Sumit. 472
 Madaschi, Laura. WE305
 Madeira Sanches, Ana Letícia. TH301
 Madsen, Lise. 120
 Magaletti, Erika. MO026
 Magaud, Helene. 581
 Magdaleno, Anahí. WE161
 Magee, Brian. MO206, WE371
 Mager, Edward. 161, 164
 Maggi, Chiara. TU012, WE341
 Maggioni, Daniela. WE305
 Maggiore, Angelo. 657
 Magni, Stefano. MO243, TU181, WE305
 Magnuson, Jason. 107, 162, MO015
 Magro, Massimiliano. WE121
 Maguire, Steve. WEPC15
 Maher, William. 507
 Mahlatsi, Tladi. TH141
 Mahnkopf, Judith. 359
 Mai, Bixian. TU276, WE251, WE255
 Maia, Frederico. 234
 Maiello, Raffaele. MO418
 Maillard, Emmanuel. MO100
 Maillot-Maréchal, Emmanuelle. 633
 Main, Kevan. MO234
 Mainar, Ana. MO040, TU348, TU349
 Mainardi, Giulia. 557, TU144
 Maiorana, Simone. TU399, WE042
 Maire, Olivier. 491
 Majaniemi, Sami. TU105
 Majdi, Nabil. 202, TH149
 Majer, Stefan. 145, 500, 502, TU234
 Mak, Chu Wa. TU167
 Makeeva, Vera. WE338
 Makombe, Martin. MO295, TU362
 Maksimović, Vuk. WE166
 Malaguti, Antonella. 284, 285
 Malamis, Simos. TU024
 Malaplate, Catherine. MO369
 Malarvannan, Govindan. 211, MO072, MO080, TUPC20
 Malaspina, Osmar. 330, TU046, TU056
 Malekani, Kalumbu. TH252, TH253, WE053
 Malheiro, Catarina. 275, TU142
 Malitesta, Cosimino. 288
 Mallory, Mark. MO338
 Maltby, Lorraine. 183, WE354
 Maltese, Silvia. 27, 622, TU012
 Malvestiti, Jacqueline. WE084
 Manariotis, Ioannis. MO413
 Mancía, Annalaura. TH004
 Mancini, Cecilia. TU024
 Mancini, L.. TU315
 Mancini, Laura. TH203, TU024, WE081
 Mandelli, Matteo. MO243
 Manea, Flavio. TH194
 Manek, Aditya. MO179, WE272
 Maner, Jenny. 571
 Manfra, Loredana. TU012
 Manganaro, Alberto. MO185
 Manganelli, Maura. 656, TH180
 Manier, Nicolas. 589
 Manigrasso, Maurizio. 285
 Mann, Erin. MO337
 Manneh, Rima. WE220
 Manno, Clara. TH014
 Manolidi, Korina. 592
 Mantilla-Aldana, Leonardo. MO060, TH222
 Mantovani, E.. TH227
 Manuel, Manuel Pedro. WE208
 Manuela Olga, Pogacean. TH276
 Manuguerra, Simona. MO239
 Manusadzianas, Levonas. WE322
 Manzo, Sonia. 588, MO414, TH094, TU008, TU019, WE381
 Mao, Feijian. MO308
 Mapelli, Francesca. 188, TU245, TU247, TU366
 Maradonna, Francesca. WE121
 Marasinghe Wadige, Chamani. 507
 Marazza, Diego. 502, MO103
 Margal, Raquel. TH176
 Marcato, Ana Claudia de Castro. MOPC02, TH137
 Marcheggiani, Stefania. TH203, TU024
 Marchelli, Laura. WEPC23
 Marcher, Steen. 245, TU271
 Marchesi, Massimo. TU259, TU260, TU262
 Marchetto, Flavio. MO220, TH233
 Marchini, Silvia. WE081
 Marckwordt, Jasmine. 41
 Marco, Ignasi. MO075
 Marcomini, Antonio. 325, TU090
 Marcovecchio, Francesca. 224
 Maremonti, Erica. WE408
 Mares-Guzman, Fernando. TU309
 Margaria, Valentina. TU258
 Margiotta-Casaluci, Luigi. 599, TH320, WE008
 Margni, Manuele. 131, 17, MO093
 Margui, Eva. MOPC27
 Mari, Montse. TU393, WE244
 Mariani, Livia. MO026, WE034, WE381
 Marigomez, Ionan. MO007,

MO009, MO025, MO029
 Marin, Arnaldo. 471, WE200, WE201, WE204
 Marin, Claudia. WE200, WE201
 Marin, Desiree. TU229, TU232
 Marin, Maria Gabriella. TU319
 Marina, Maria Luisa. WE010
 Marinas, Benito J. 612
 Marinkovic, Marino. WE022
 Marinov, Dimitar. 615
 Mariz Jr, Celio. TU332
 Markiewicz, Marta. TH152, TU094
 Markova, Kristyna. TU252
 Marković, Dean. 464
 Marmon, Philip. WE008
 Marneffe, Yves. TU312
 Marohn, Lasse. TU211
 Marqueno Bassols, Anna. TH074
 Marques, Ana. TH176
 Marques, António. 428, MO345, WE329
 Marques, Antonio. TH176
 Marques, Antonio Ernesto. MOPC03
 Marques, Gonçalo. TU205
 Marques, João. 278, TU075, TU083, TU117, TU153, WE020, WE198, WE199
 Marques, Montse. WE244
 Marques, Pedro. WE238
 Marques, Sérgio. TU083
 Marshall, Samantha. TU291
 Marsili, Gianni. TU402
 Marsili, Giovanni. TU316
 Marsili, Letizia. 27, MO062, MO063
 Mart, Valentina. TH078
 Martelli, Francesca. 442
 Martí, Celia. TH063, TH225
 Martin, Annika. 433
 Martin, Catherine. WE419
 Martin, Florian. 472
 Martin, Jake. 201, TU324
 Martin, Jonathan. WE416
 Martin, Lynwill. MOPC25
 Martin, Thomas. MO166
 Martin, Timothy. 251, TU288
 Martin-Fernandez, Margarita. TH164
 Martin-Laurent, Fabrice. TU379
 Martinez, Ignacio. TH026
 Martínez, José Enrique. MO072
 Martinez, Jose Maria. WE200
 Martinez, Santiago. TH266, WE076, WE170
 Martinez, Santiago. WE165, WE168, WE169
 Martínez Oró, Obdulia. WE332
 Martínez Rodríguez, María Ángeles. TH075
 Martinez-Guerrero, JOSE. MO041
 Martinez-Guitarte, Jose-Luis. TU139, WE280
 Martinez-Haro, Monica. MO043, MO054, TU117, TU130, TU301
 Martínez-Jerónimo, Felipe Fernando. WE079, WE082
 Martinez-Lopez, Begoña. 471, WE200
 Martínez-Madrid, Maite. TU307
 Martínez-Varela, Alicia. 139
 Martino, Antonello. 444
 Martinovic-Weigelt, Dalma. 241, TH059, TH288, TH323
 Martins, Ayantse. TH267
 Martins, Claudia. WE088
 Martins, Jean. WE114, WE172
 Martins, Manuel. TH015
 Martins, Marta. TH008
 Martins, Nuno Emanuel Pinto. TU123
 Martins, Roberto. 234, WEPC20
 Martins, Rui. 269, WE385
 Martins dos Reis, Isis. TU127
 Martuccio, Giacomo. TU012, WE173
 Martyniuk, Christopher. 539
 Martz, Patricia. TH228
 Marvin, Chris. MO027, MO033
 Marvuglia, Antonino. 195, WE234
 Marx, Michael Thomas. TH124, TH155
 Mascolo, Giuseppe. MO296
 Maslankiewicz, Lidka. 601
 Masoni, Paolo. TU237
 Massacci, Angelo. TU243, TU244
 Massarelli, Carmine. TU169
 Masse, Anita. MO263, WE293
 Massei, Riccardo. 51, TU317
 Masset, Thibault. TUPC19
 Massey, Andy. 3, MO146
 Massey, Paul. TH130
 Massey Simonich, Staci. 289, MO286, TU400, WE429
 Massimi, Lorenzo. 229, TU370
 Massini, Giulia. TU261
 Masson, Gérard. MO160
 Masson, Matthieu. TU030
 Mastorgio, Andrea. TU255
 Mastroianni, Nicola. MO311
 Masui, Toshihiko. TU104
 Masulo, Pasquale. WE381
 Mateo, Rafael. 30, 85, 86, MO043, MO054, MO071, MO075, MO078, TU301
 Matezki, Steffen. 402, MO225, MO226
 Mathis, Marcel. TU009
 Mathis, Mike. WE380
 Matic, Frano. 123
 Matos, Ana Rita. WE020
 Matosic, Marin. 79, MO292
 Matsuzaki, Kanae. TU067
 Matthies, Michael. TU155, WE056
 Matticchio, Bruno. WE275
 Mattos, Jacó. MO064, MO079, TU127
 Matturro, Bruna. 189
 Matzenbach, Isabelle. TH101
 Matzke, Marianne. MO405, TH083
 Maul, Katrin. WE048
 Maulvault, Ana Luisa. 428, MO345, WE329
 Maunder, Richard. 459
 Maunoury-Danger, Florence. TU299
 Maury, Thibaut. 72
 Máximo, Déborah. MO136
 May, Elisabeth. TU175
 May, Leslie. 185
 Mayall, Craig. MO399
 Mayer, Christoph. 494, TH125
 Mayer, Jens. 279, MO316
 Mayer, Philipp. 66, 67, MO199, MO435, MO436, MO437
 Mayer-Pinto, Mariana. 362, WE358
 Mayfield, Heather. TH160
 Maynard, Samuel. 93
 Mazellier, Patrick. TU268
 Mazzariol, Sandro. MO063
 Mazzella, Nicolas. 202, TH250, TH251, TU015, TU017
 Mazzia, Christophe. WE248
 Mazzola, Angelo. WE381
 Mazzola, Massimo. WE075
 Mazzolini, Anna. 264
 Mazzoni, Michela. MO446, TH107, WE253
 Mazzurco Miritana, Valentina. TU261
 Mbadiwe, Nkeiruka. TU394
 McAnulty, Michael. WE122
 McAvoy, Darren. 130
 McCallum, Erin. 200
 McCann, Clare. 518
 McCarthy, Christopher. TH195, WE425
 McCormack, Paul. MO031
 McCoustra, Martin. WE406
 Mccreton, J Decclan. 523
 McDonald, Robbie. 87
 McDonald, Tony. MO272
 McEvoy, James. TU187
 McGeer, Jim. 213
 McGoran, Alexandra. TU187
 Mckillican, Carol. TU291
 McLachlan, Michael. 11, 372, 585, TH259, TU280
 McLagan, David. MOPC23
 McLaughlin, Sean. TH253
 McManus, Sarah. 5
 McMaster, Steve. 496
 McMillan, Claire. MO382
 McNeill, Kristopher. TH168, WE063, WE064
 McSheehy Ducos, Shona. WE123
 McVey, Emily. TUPC08
 Mdegela, Robinson. WE206
 Means, Jay. 351
 Mearns, Neil. 523
 Meays, Cindy. WE272
 Medesani, Daniel. TH068
 Mediancev, Alexey. MO360
 Medlin, Linda. TH164
 Medrano, Rebecca. TU070
 Medvecky, Rebecca. MO234
 Meeker, M.. 237
 Meesters, Johannes. TH088, TU091
 Mehinto, Alvine. 109, TH288
 Meier, Christiane. MO375, MO377
 Meierdierks, Jana. TU411
 Meijboom, André. MO319
 Meire, Patrick. WE183
 Meisterjahn, Boris. 39, 67, MO409, TH093
 Mejia, Sandra. 574, TH095
 Mekenyan, Ovanes. WE067
 Meli, Mattia. TH126
 Mellin, Pelle. TU150
 Mellor, Claire. 660
 Melo, Pedro. WE238
 Melo Junior, William. MO267
 Melone, Lucio. WEPC19
 Melymuk, Lisa. TU369, TU408
 Memmert, Ulrich. WE364, WE374
 Menaballi, Luca. MO145, TH235
 Mendez, Paula. TU295
 Méndez-Fernández, Leire. TU307
 Mendo, Sonia. TU428
 Mendoza Beltran, Angelica. 13
 Menezes-Oliveira, Vanessa. MO039
 MENG, QI. 630
 Meng Ian, Jeong. WE142, WE313, WE315
 Mengotti, Giulia. TU096
 Mengs, Gerardo. TH164
 Menshov, Valerii. 531
 Menz, Jakob. WE048
 Merchan, Angel. MO117
 Merregalli, Giovanna. TH233, WE153, WE162
 Merico, Eva. 284
 Merino, César. WE309
 Merkoci, Arben. TU024
 Merle, Laure-Anne. WE191
 Merle, Philippe. TU283
 Merlo, Mathilde. TU375
 Merloni, Eva. MO103, TU234
 Merrington, Graham. 213, 306, 307, TU198, TU199, TU200, WE147
 Mertens, Jelle. 99, MO410, TH081
 Mesquita, Andreia Filipa. TU075, TU083
 Messana, Giuseppe. TU126
 Messina, Concetta. MO239
 Metcalfe, Chris. MO303, MOPC17, WE416
 Metian, Marc. 470, MO329
 Metzeling, Leon. MO341
 Metzner, Martin. TU346
 Meusinger, Reinhard. 141
 Meyer, Angelika. TH249, WE127
 Meyer, Anita. MO206
 Meyer, David. MO098
 Meyer, Frederik. WE335
 Meynet, Paola. 250
 Meyns, Michaela. MOPC12
 Meys, Raoul. 259
 Mi, Ruidong. 635
 Michaelis, Katja. MO374
 Micheli, Laura. 653
 Michiels, Ellen. MO259, TH067
 Michielsen, Jean-Marie. MO149, MO151
 Michoud, Gregoire. 308
 Mičić, Bojana. MO258, MOPC01
 Mickpegak, Raymond. 636
 Micolter, Alice. 441, MO091
 Midthaug, Hilde. MO036
 Mieck, Susanna. MO241
 Miège, Cécile. TH251
 Mieras, Eric. 194, 436
 Miersch, Christian. MO074
 Mieth, Andre. TH248
 Miffon, Fabrice. TU286
 Miglioranza, Karina. TU241, TU413
 Miguel, Laura. MO025
 Mihaich, Ellen. TH052
 Mihailović, Nevena. WE166
 Mihaljević, Ivan. 79
 Mihan, Christine. 400
 Mijangos, Leire. 389, MOPC20, TU133, WE287
 Mikhail, Amanda. TU209
 Mikkelsen, Øyvind. TU296
 Miksch, Lukas. MO038
 Mikutta, Robert. 96
 Milacic, Radmila. WE398
 Milandri, Anna. TH178
 Milano, Marianne. TU196
 Miles, Benedict. 242, 244, 3
 Miles, Mark. 329, TU044
 Miletic, Srdjan. MO020
 Miliauskienė, Jurga. WE350
 Milic, Jelena. MO020, TH078, TU279
 Miliziano, Salvatore. 445, WE041
 Mill, Jonathan. WE298, WEPC01
 Miller, Bradley. 641
 Miller, Christelle. MO234
 Miller, Jared. TU415
 Miller, Paul. 1
 Miller, Thomas. TU112, WE088
 Milošević, Djuradj. WE407
 Miltner, Anja. 487, 60
 Mina, Rūben. MO083
 Minarik, Thomas. TH059
 Minati, Renzo. TH127
 Mincer, Tracy. MO329
 Minella, Marco. WE002, WE066
 Minero, Claudio. WE002
 Mingo, Valentin. MO045
 Minguez, Laetitia. WE182, WE357
 Mininni, Giuseppe. 442, WE038
 Minke, Christine. TH308, TU215

Minten, Barbara. 153
Mintenig, Svenja. 218
Mintram, Kate. 93
Mirbahai, Leda. 475
Misaki, Takayuki. TU067
Miserocchi, Stefano. WE091
Mišić, Danijela. WE166
Miškelytė, Diana. WE143, WE347, WE348, WE350
Mišljenović, Tomica. WE166
Mistretta, Marina. 623
Mitchell, Carl. MOPC23
Mitchell, Chelsea. 94, MO368
Mitrano, Denise. 219
Mitton, Francesca. TU241
Mitzel, Norbert. TU278
Miyagi, Takayuki. 535
Mizsey, Peter. TH307
Mizukawa, Hazuki. WE246
Mmochi, Aviti. WE206
Moe, Jannicke. 426, MO180, TH318, TH321, WE205
Moenefard, Marzieh. WE240
Moeris, Samuel. 614, TH210
Moermond, Caroline. WE022
Moes, Sylvia. WEPC14
Moger, Julian. MO424
Moggridge, Bradley. 639
Mohaddes, Effat. TU341
Mohamed Ali, Mohamed Yasreen. TU387
Mohamed Yunus, Siti Syuhaida. WE228
Mohd Hanafiah, Marlia. TU236, TU387
Moinecourt, Carmen. MO336
Mok, Sori. TU356
Mokkapat, Jayasravanthi. TH145
Molbert, Noëlie. MO444
Moldrickx, Johannes. MO184
Moliné, Eduard. TH313
Molitor, Anna Maria. TU045, TU047
Molledo, Ginevra. TU012, WE173
Monaci, Fabrizio. 406, MOPC23
Monapathi, Mzimkhulu. WE113
Monclus, Laura. MO078
Mondello, Giovanni. 624
Mondou, Matthieu. WEPC15
Monforte Vila, Xavier. MO191
Monk, Wendy. 362
Monllor, Simon. 424, MOPC21, TH202, TU313
Monrozies, Laurent. 3
Monson, Chris. 354
Montalbano, Serena. TU353
Montanari, Ivan. TH304
Montaña, Manuel. MO423
Montarges-Pelletier, Emmanuelle. 385
Monteagudo, Jose. MOPC22
Monteiro, Cátia. MO046, WE312
Monteiro, Hugo. TU141, WE284
Monteiro, Marta. 167, 234, 39, MO257, MO407, TU359
Monteiro, Rui. TU129
Montemurro, Nicola. 138, 139, 451, 452
Montes, Mélanie. TH153
Montes, Rosa. 369, 389
Monti, Dominique. MO133
Monti, Flavio. MO085
Montini, Addressa. TU292
Montone, Rosalinda. MO452
Mony, Cendrine. WE154
Moon, Hyo-Bang. TH287, TU356
Moon, Jongmin. TH197
Mora, Miguel. MO067
Moraga, Gustavo. MO388
Morais, Juliana. MO267
Morais, Manuela. TU313, WE277
Morales, Daniel. MO196, TU317
Moran, Daniel. MO113
Morao, Ana. TU093
Morão, Inês. MO055
Morard, Raphaël. TH006
Morariu, Ionela. MO310
Moreau-Guigon, Elodie. 227, 286
Moreira, Ines. TH320
Moreira, Maria Teresa. TU239, WE222
Morel, Marie-Christine. WE114
Morelli, Andrea. MO417
Morelli, Ben. MO102
Moreno, Iñigo. TU307
Moreno, Miguel Ángel. WE106
Moretti, Leandro. TU256
Moretti, Massimo. 287
Moretto, Angelo. MO130, TU088
Moretto, Sarah. MOPC03
Morgado, Fernando. MO340, MO355
Morgado, Rui. TH293, TU428
Morgana, Silvia. TU121, TU132
Morgenroth, Eberhard. 98
Morghese, Maria. MO239
Mori, Nicola. TU148
Moria, Laura. 628
Morin, Bénédicte. 649, MOPC06, TH274
Morin, Nicolas. MO198
Morin, Soizic. 202, TH149, TU015, TU017, TU031
Morita, Osamu. TU284
Morlacchi, Federica. TU250
Morone, Piergiuseppe. TH229, TU234
Morosini, Cristiana. 188, TU245, TU247, TU366
Morris, Adam. 413
Morris, Jeff. 104
Morrissy, Christy. 83, MO068
Morritt, David. TU187
Morselli, Melissa. 336, 63, MO223
Mortensen, Åse-Karen. TH199
Moscetta, Pompeo. 653
Moscovici, Liat. TH061
Moser, Thomas. 399
Moses, Sonya. TU191
Mosolloane, Portia. WE096
Mosquera, Maria. 56
Mosquin, Paul. MO123
Motellier, Sylvie. 590
Motoshita, Masaharu. 318, MO093
Motta, Lucrezia. WE066
Mottaz, Hélène. 169
Mottet, Denis. 264
Mouchel, Jean-Marie. MO444
Moufarrej, Lamia. TU405
Mougel, Jean-François. MO190
Mougeot, François. 30
Mougin, Christian. 352
Mounède, François. WE209
Mouneyrac, Catherine. 527, 528, 589, TH003
Mounier, Florence. TU203
Mount, David. 508
Mourad, Maurice. TH314
Mourinha, Clarisse. 277
Mousinho, Jose Bernardo. TH293
Moussard, Géraud. TH153
Mouzourakis, Eleftherios. WE306
Mozeto, Antonio. TU263
Mucha, Paul. 371
Muche, Julia. MO317
Muckey, Brett. TH195
Mudge, Stephen. 48
Mudry, Marta. TU425
Mueller, Axel. MO322
Mueller, Jochen. TU408
Mueller, Michael. TU250
Mueller, Yvonne. MOPC04
Muhib, Abduwasiu. WE141
Mühlenbrink, Marie. 569
Muir, Derek. 69
Mulhearn, Brian. TU419
Müller, Anne-Katrin. TH070
Müller, Erik. 19
Muller, Erik. 351, 353
Müller, Johann. MO296
Muller, Marc. TH298
Müller, Maximilian. WE134
Müller, Mette. WE206
Müller, Yvonne. WE086, WE097, WE188, WE193
Multsch, Sebastian. MO125, MO129
Muna, Marge. TH265, TU120
Muncke, Jane. 324, TH284
Munday, Philip. 161
Muniategui, Soledad. TH103, TU176, TU190
Muniategui Lorenzo, Soledad. TU109
Munn, Sharon. 598, 599, TH050, TH051
Muñoz, Diana. TH202
Munoz, Gabriel. 574, TH095, TU203
Muñoz, Isabel. 424, 427
Muñoz, Raúl. 80
Muñoz-Arnanz, Juan. MO062, MO063
Munoz-Najera, Mario Alejandro. TU073
Munro, Kelly. WE088
Munthe, John. 300, 361
Munz, Nicolas. MO248
Munz, Nicole. TUPC05
Murakami, Lucilene. MO136
Murano, Carola. 382
Murdoch, Mary. MO179
Murgolo, Sapia. MO296
Muriana, Arantza. TH063, TH225
Murimboh, John. MO338, WE242
Murk, Albertinka. 476
Murphy, Cheryl. 600
Murray, Aimee. 520, 521
Murtaš, Aneta. 383, TU066
Muscatello, Jorgelina. MO001
Muschket, Matthias. 296
Musmeci, Loredana. TU316
Musso, Giorgia. 382
Mustajärvi, Kaisa. TU382
Mustala, Shalini. 122
Musteikytė, Aira. TU238
Musters, Kees. 364
Müther, Jutta. TUPC10
Muthumuni, Dhasni. MO251
Muurinen, Johanna. WE101, WE115
Muz, Melis. 296, 572, MO441
Muzandu, Kaampwe. WE246
Muziasari, Windi. WE115
Muzzini, Valerio. WE039, WE040
Muñoz, Ivan. 566, WEPC28
Mwakalapa, Eliezer. WE206
Myllysilta, Marja. TU105
Müller, Vibeke. TU271

N

Na, Joorim. TH224, TU206
Naasz, Steffi. WE300
Nabb, Diane. TH042
Nacci, Diane. 353
Nachev, Milen. 355
Nadal, Marti. TH075, WE244
Naeb, Olga. 246, MO142
Naffrechoux, Emmanuel. TUPC19
Nagashima, Fumiya. TU404
Nagler, James. 354
Nagorka, Regine. WE078
Nahmani, Johanne. TU299
Naidu, Ravi. TU071
Nakamoto, Yuya. TU221
Nakanishi, Tsuyoshi. 535
Nakata, Hokuto. WE246
Nakayama, Naoko. TU067
Nakayama, Shouta. WE246
Nam, Sun-Hwa. WE409
Nambi, Indumathi. TH215, TH216
Nanba, Kenji. WEPC03
Nannoni, Francesco. TU147, WE245
Nansai, Keisuke. TU220, TU404
Napierska, Dorota. 615, TU029
Napora-Rutkowska, Marta. MO076, TH254, WE393
Naree, Park. WE355
Naslund, Laura. 121
Näslund, Markus. TH112
Nason, Jeffrey. MO419, MO421, WE400
Nasri, Hichem. MO244, MO245
Nastasio, Paolo. TU366
Nasuhoglu, Deniz. WE089
Natal da Luz, Tiago. 414, 616, MO083, TH137, TH263, WE283
Natal-da-Luz, Tiago. 559
Nathanail, Paul. 281
Natsch, Andreas. MO175
Nauts, Robin. WEPC03
Navarrete-Gutierrez, Tomas. TU102
Navarro, Enrique. 451, MO040, TH025, TU034, TU348, TU350
Navarro, Joan. 451
Navarro, Juliana. TU349
Navarro-Martín, Laia. WE027
Navas, José M. TH064, TH092, TU089, WE309
Navis, Sabine. 582, MO376, TH238
Ndungu, Kuria. 42, 506, MO406, MO415
Neale, Peta. 237, 240, 572, 646
Neca, Jirí. 631
Nechanická, Magda. TU262
Nedeljkov, Vladimir. TH189
Nedrich, Sara. TU080
Neefs, Ineke. WE028
Neely, Benjamin. 606
Negishi, Koji. TU102
Negrin, Ilario. 129
Neira, Eduardo. 151
Nejstgaard, Jens. WE357
Nel, Larize. MO084
Nel, Ronel. MO056
Nélieu, Sylvie. MO201
Nellis, Adam. WE007
Nelms, Simon. WE123
Nelson, Derek. 162
Nelson, Krysta. MO259
Nelson, Sara. MO038
Nemtseva, Elena. WE212, WE216
Nendza, Monika. 430, 431, WE051
Nepstad, Raymond. MO032
Neri, Esmeralda. TH304, TH307
Neri, Maria Chiara. TU138
Neri, Paolo. TU218
Nerland Bråte, Inger Lise. MO332, WE413
Ness, Jennifer. 606
Neto, Joao. TU117
Neto, Victor. MO417
Neugebauer, Frank. 605, WE256
Neugebauer, Sabrina. 564

- Neumann, Michael. WE071, WE073
 Neumann, Paul. 494, 59
 Neury-Ormanni, Julie. 202, TH149
 Neueglise, Typhaine. TH028
 Neuwirthová, Natália. MO121, TH146, TU421
 Neves, Joana. TH008, TU142
 Newcombe, Andrew. 3
 Newman, Karla. WE416
 Newton, Kymberly. WE176
 Nfon, Erick. WE053
 Nguyen, Linh. TH244, TU369
 Nguyen, Vy. 333, 642, TH243, WE264
 Niblick, Briana. MO093, MO102
 Nichols, John. 665, TH042
 Nickel, Carmen. TH084, TH085, TH086
 Nickel, Stefan. 404, 405, WE239
 Nickisch, Dirk. MO222, MO360
 Nicola, Pirrone. MO335
 Nicolai, Taco. MOPC08
 Nicolaus, Ernst. MO024, MO352
 Nicolussi, Greta. MO010, WE323
 Nielsen, Anders. TU038
 Nielsen, Flemming. 576
 Nielsen, Majken. TU336
 Niemikoski, Hanna. MO034
 Nienstedt, Karin. 1
 Niero, Monia. 255
 Niessner, Reinhard. 192, MOPC07
 Nietch, Christopher. TH190
 Nikiforov, Vladimir. TH098
 Nikodem, Antonin. 453, WE150
 Nikolaros, Maria. TH047
 Nikolić, Vladimir. TU273
 Nikolov, Nikolai. WE072
 Nilen, Greta. TH214, TH302
 Nilsen, Bente. 120
 Nilsson, Anders. 311
 Nincevic Gladan, Zivana. 123
 Nisbet, Roger. 353
 Nishijima, Daisuke. TU220
 Nishimura, Osamu. TU072
 Nishimura, Tetsuji. MO164, MO192, WE004
 Nizzetto, Luca. 21, 221, 426, TU161, TU168, WE353
 Noardo, Federica. TU393
 Nocelli, Roberta. TU046
 Nödler, Karsten. 247, TU264
 Noah, Ingrid. MO375, MO377
 Noël, Emmanuelle. TU047
 Noguchi, Mana. TU067
 Nogueira, Helena. 278, TU153
 Nogue, Isabel. TU244, WE175
 Norberg, Jon. 426
 Norberg-King, Teresa. 170, 508, MO165
 Nordheim, Eirik. 216, TU376
 Nordtug, Trond. MO032
 Norf, Helge. WEP05
 Norman, Steve. 153, 294, WE396
 Norrfors, Karin. 97
 Norrgren, Leif. 514, WE083
 Northcott, Grant. TH077
 Northey, Stephen. 318, MO093
 Nosek, Jaroslav. TU252
 Nott, Katherine. TU312, WE361
 Nouri, Mohammed-Zaman. 539
 Noury, Patrice. 232
 Nouwens, Amanda. MO182
 Novais, Helena. TU313, WE277
 Novais, Sara. 414, MO055, TH183, TH184, TU141, WE283, WE360
 Novak, Jiri. TH209, TU397
 Novak, Sara. MO397
 Novakova, Zuzana. TU397
 Novi, Alberto. TU233
 Novo, Marta. WE280
 Nowack, Bernd. 338, 591, 74, TH083, TH087
 Nowak, Karolina. 60, WE059
 Nozal, Leonor. WE333, WE344, WE349
 Nuel, Gregory. TH174
 Nuesser, Leonie. 163, 570
 Nui, Jianjun. TU367
 Nunes, Cláudia. WE199
 Nunes, Fabricio Flores. TU127
 Nunes Cardoso, Diogo Filipe. 275, TU110, TU142, TU428
 Núñez, Andrés. WE222
 Nuñez, Maria del Prado. 397, TU355
 Núñez, Montse. 131, 133, 197
 Núñez, Oscar. TH163
 Nusz, Josie. 496
 Nuutinen, Jari. MO017
 Nwajuba, Judith. TU065
 Nyberg, Elisabeth. 604
 Nygård, Torgeir. MO072, MO080, TUPC20
 Nymo, Ingebjorg. 28
 Nyoka, Ngitheni. MO209
 Nzube, Silumko. MO282, TU371
- O**
- O'Brien, Allyson. 362, WE358
 O'Brien, Jason. 599
 O'Bryan, Moira. TU324
 O'Driscoll, Nelson. MO337, MO338, MOPC26, WE242
 O'Neill, Bridget. 328, TH124, TH155
 Obal, Terry. MO033
 Oberbeckmann, Sonja. MO317
 Oberg, Gunilla. 542
 Oberhaensli, François. MO329
 Oberhänsli, François. 470
 Obermann, Martin. WE044
 Obhodaš, Jasmina. 464
 Ochoa, Victoria. MO434
 Oda, Shigeto. TU067
 Odabasi, Mustafa. TU408
 Odendaal, James. TU116
 Odino, Martin. 178, MO460
 Oehlmann, Jörg. WE009
 Oellers, Johanna. 266
 Oen, Amy. 125, MO198, WEP010
 Oertel, Angelika. WE048
 Ogba, Maduka. TU412
 Ogburn, Evan. TH255
 Oger, Laurent. 329, TU044
 Ögmundarson, Ólafur. 501
 Ogonowski, Martin. TU172, TU178
 Oguchi, Masahiro. TU220
 Ogunbanwo, Olatayo. WE135
 Ogunbemi, Afolarin. TU322
 Ogunjemilusi, Raphael. WE316
 Oh, Seok-Young. WE431, WEP017
 Ohlemacher, Juergen. TH248
 Ohlendorf, Harry. 218
 Ohno-Woodall, Kei. 260
 Ok, Seungyeop. WE068, WE415
 O'Keefe, Sinead. 145
 Okeke, Adaobi. MO297
 Okkenhaug, Gudny. TH096
 Okutman-Tas, Didem. MO291
 Oladipo, Oluwatosin. TH139
 Olatunji, Olatunde. 387, 81
 Olbrich, Daniel. TH219
 Oldenkamp, Rik. 14, 393, 394, WE116
 Olesen, Kristina. 282, 282, MO315, TU160, TU170, WE148
 Oliva, Elena. TU349
 Olivares, Maitane. 389, MOPC20, TU133, WE287
 Oliveira, Dayane. MO039
 Oliveira, Luciana. MO388
 Oliveira, Miguel. 204, TH015, WE327
 Oliveira, Regis. TU052
 Oliveira, Rhaul. MO267, MO268
 Oliveira, Ticiane. WE249
 Oliveira Dos Santos, Joao. 438
 Oliveira e Silva, Miguel. 269, WE385
 Oliveri, Caterina. 460
 Oliveri Conti, Gea. TH180
 Oliviero, Maria. MO414, TH094, TU008, TU019
 Olivotto, Ike. WE121
 Olker, Jennifer. TU004
 Olli, Kalle. TU021
 Olmos, Mar. TH202
 Olsen, Linn Merethe. 223
 Olsen, Marianne. 221, MO332
 Olsen, Marianne. 222
 Olsen, Preben. 245
 Olsen, Stig. MO390
 Olsson, Oliver. 36, TU278
 Olsson, Per-Erik. TU069, TU254
 Omouri, Zohra. TU063
 Onofrio, Giovanni. WE075
 Onorati, Fulvio. MO026, TU012, WE173
 Onyeyili, Patrick. TU361
 Ooi, Gordon. 77
 Oorts, Koen. 582, 618, 99, MO410, TH127, TH151
 Oosterhuis, Frans. 430, 431, WE051
 Oosthuysen, Tobie. TU076
 Oostlander, Angela. WE022
 Opeolu, Beatrice. 387, 81
 Opincarne, Megan. WE156
 Oppermann, Rainer. MO225
 Orbea, Amaia. MO003, TH025, TH026
 Ordeix, Marc. 655
 Ordulj, Marin. 123
 Orihel, Diane. 106
 Orioli, Valerio. MO220
 Örn, Stefan. 514, WE083
 ORourke, Jane. WE191
 Orrù, Maria Antonietta. TH232
 Ortega, Marcelo. MO351
 Ortega-Calvo, José Julio. 127, 191, 248, MO208
 Ortelli, Simona. 320
 Ortiz, Elena. WE027
 Ortiz, Juan Bossco. WE208
 Ortiz Santaliestra, Manuel. 26, 30, MO043, MO044, MO051, MO054
 Ortori, Catherine. MO313, WE109
 Ospina-Alvarez, Natalia. WEP013
 Ost, Norbert. TH054
 Oster, Sophie. WE097, WE188
 Oster, Thierry. MO369
 Österlund, Tobias. MO008
 Ostfeld, Avi. 570
 Östman, Marcus. MO302
 Osuji, Ezinne. 312
 Osuna Ruiz, Maria Dolores. TH233
 Oteyza, Tirso. 5
 Othero, Bárbara. TU127
 Otitoju, Olawale. TH267, TU074, TU418
 Otitoju, Taiwo. TU074, TU418
 Ott, Amelie. 251, TU288
 Otte, Jens. TH239
 Otter, Ryan. 170, MO165
 Ottermanns, Richard. 266, 487, 555, TH119, TH129, TU005
 Otto, Megan. 272, WE423
 Otto, Stefan. MO156, TH246, TU148
 Otton, Victoria. 669
 Ouellet, Jacob. TH258, WEP004
 Oughton, Deborah. TU384, TU385, WE408
 Overmyer, Jay. TU055
 Overturf, Matthew. TH317
 Ovesen, Rikke. 35
 Owen, Stewart. 392, 459, MO174, MO253, MO424, TU112, WE007, WE008, WE018
 Owsianiak, Mikolaj. 71
 Oyewo, Emmanuel. TU071
 Özel Duygan, Birge. TU283
 Oziol, Lucie. 227
- Ø**
- Øverjordet, Ida Beathe. MO032
 Øxnevad, Sigurd. 506, MO380, MOPC24
 Øysæd, Kjell Birger. TU163
- P**
- P Diz, Angel. TU109
 Pacchierotti, Francesca. TH094
 Pacella, Marc. TH236
 Pacheco, Mario. TH176
 Padilla, Edith. WE321
 Padilla, Lauren. 62
 Padovani, Laura. 3
 Padulosi, Sara. 444
 Pagano, Norina. TH302
 Pagel, Holger. 487
 Pain-Devin, Sandrine. 528, WE182
 Pais, Miguel. MO061, WE107
 Pais-Costa, Antonia. TU117
 Pajula, Tiina. WE257
 Pakharkova, Nina. WE213, WE214
 Palace, Vince. 106, MO179, MO251
 Palani, Sankar Ganesh. 463
 Palazzi, Donatella. WE381
 Palleschi, Giuseppe. 653
 Palma, Enza. 190
 Palma, Patricia. 277, TU313, WE277
 Palmeri, Luca. MO367, WE075
 Palmqvist, Annemette. MO327, MO328
 Palombi, Leonardo. TU417
 Pamminger, Tobias. TU049
 Pampanin, Daniela. MO028
 Pampanin, Daniela Maria. TH234
 Pan, Yuan. 183
 Panagopoulos, Yannis. 359
 Pandard, Pascal. 589, TH196
 Pandelides, Zacharias. TH317, WE016, WE017, WE031
 Pandolfi, Franca. TU029
 Pane, Luigi. WE381
 Panou, Manthos. TH181
 Pant, Rana. TU099, TU100
 Pantano, Glauca. TU263
 Panti, Cristina. 28, 416, TH004
 Pantoja, Leonardo. 641
 Paolesse, R.. TU410
 Paoli, Luca. 406
 Papa, Ester. 396, 664, MO163, TU087, TU088, WE066
 Papa, Paolo. MO335
 Papadimitraki, Maria. MO065
 Papageorgiou, Lazaros. 316
 Papparini, Andrea. 78
 Papin, Quentin. MOPC06

Papini, Marco. 189, 190, MO198, WE424
Pardal, Miguel. WE100
Pardo, Isabel. TU307
Pardon, Patrick. MO133, MO300, TU268, TU422, TU423
Parège, Caroline. 633
Pareja Carrera, Jennifer. MO043, MO054, TU301
Parent, Lise. TH047
Parenti, Camilla. TU127, WE305
Parenti, Camilla Carla. MO243
Pareti, Salvatore. 224
Parinet, Julien. MO210, MO210, MO211
Park, ByungJun. WE145
Park, Eunyoung. MO154
Park, Grace. 41
Park, Hyung Kyung. WE068, WE415
Park, Jeongim. TH287
Park, Jeongwon. WE145
Park, Ji Young. TU356, TU357
Park, Jinhee. MO224
Park, Jongbin. WE174
Park, Jun Chul. 291, 536
Park, June-Woo. TU194
Park, Magriet. TU091
Park, Yeongchul. TU424
Park, Yoonsu. WE430
Parker, Matthew. TU325, TU326
Parker, Sarah-Jane. 93
Parkerton, Thomas. MO006, MO429
Parkkonen, Jari. MO008
Parlak, Hatice. TH221
Parma, Paweł. MO076, TH254, WE393
Parmar, Rohan. 553
Pärnänen, Katariina. WE101, WE115
Parnis, J. Mark. 7
Parolini, Marco. 29, MO086, TH107, TU188, WE014, WE019, WE253, WE305
Parry, Tony. 438
Parsons, Ant. TU024
Parsons, John. 126, TU267, TU285, WE133, WEPC14
Parsons, Lesley. TU024
Paschke, Albrecht. MO183, MO203
Pascoal, Cláudia. 461, TU123
Pascual, Gissela. TU072
Pascual-Aguilar, Juan Antonio. MO306
Pashami, Sepideh. TH126
Pasini, Massimiliano. MO156
Pasparakis, Christina. 162, 164
Pasquale, Vincenzo. TU019
Pasqualini, Julia. WE333
Pasquazzi, Fabio Massimo. 653
Passarini, Fabrizio. 315, TH304, TH307
Passatore, Laura. TU244
Passoni, Alice. WE042
Passuello, Ana Carolina. MO388
Pastori, Nadia. WEPC19
Paterson, Eileen. WE153
Paterson, Michael. 106
Paterson, Shanna. 523
Pathasarathy, Shridharan. MO313
Patidar, Rakesh. 635
Patinha, Carla. 490
Patouillard, Laure. 17
Patrolecco, Luisa. 446, MO301, TU241, WE033, WE034, WE035, WE037, WE038, WE039, WE040, WE041, WE112, WE117
Patsaeva, Svetlana. 532, 533
Patsiou, Danai. WE406
Patterson, David. MO119
Paula, José. 428
Paull, Gregory. WEPC01
Paulo, Driele. TU332
Paulus, Anne. 6
Paulus, Martin. 209, 605
Paunovic, Moumir. 424
Paus-Knudsen, Julie. TU038
Pavan, Manuela. TH282
Pavlaki, Maria. 234, TH293
Pavlidou, Alexandra. 308
Pavoni, Elena. MO334, MO346
Pawlowski, Sascha. TH239, WE380
Paxman, Chris. TU408
Payen, Sandra. MO093
Payvandi, Sevil. 5
Peach, Will. TU010
Pearson-Davies, Penny. TH130
Pecoraro, Roberto. 193
Pecquerie, Laure. TU203
Pedall, Inken. WE395
Pedersen, Ann-Katrin. TH159
Peeters, E. 357
Peeters, Jef. 257
Peijnenburg, Willie. 641, TH083, TH088, TH089, TU091, WE414
Peiry, Jean-Luc. TU164
Peither, Armin. WE378, WE382
Peitsch, Manuel. 472
Pelin, Marco. 654
Pella, Hervé. 133
Pellegrini, David. WE194
Pelletier, Derek. TH237
PELOSI, Celine. 352, 556, MO201, TH143
Pelosi, Giorgio. TU353
Peltola-Thies, Johanna. 432
Peluhet, Laurent. TH241, TH242
Pelz, Oliver. MO022
Peña Herrera, Juan. 451
Peñalver Alcalá, Antonio. TU300, WE332
Pencíková, Katerina. 631
Peng, Fengjiao. TU373
Peng, Xianzhi. WE043
Penha, Alexandra. TU313, WE277
Penha, Larissa. TH220
Penna, Antonella. 654, TH178
Pennington, Marcus. 450
Penru, Ywann. 132, 197
Penttinen, Olli-Pekka. WE339
Pepper, Rachel. 638
Pepper, Tim. WE373
Perales, Jose Antonio. MO320
Peranginangin, Natalia. MO136
Pereda, Olatz. TH291, WE326
Pereda Solis, Martin Emilio. MO041
Pereira, Carla. 559
Pereira, Joana Luisa. MO059, WE088
Pereira, M.. 205, 87, MO070, MO073, TU035
Pereira, Maria. TU129, WE328
Pereira, Vitória. TH176
Pereira-Pinto, Estefanía. MO060
Perera, Alex. WE287
Perez, Allison. TU388
Pérez, Analía. TU119
Perez, Jonatan. WE161
Pérez, Sandra. 138, 139, 451, 452
Pérez-Alvarez, Itzayana. MO037, WE085
Pérez-García, Juan. MO081
Pérez-Lopéz, Paula. 146
Perez-Ovilla, Oscar. MO136
Perez-Rojas, Alberto. MO177, MO232
Perga, Marie-Elodie. TUPC19
Perini, Aurora. TH013
Periz Stanacev, Jelena. MO259
Perkins, Edward. 598, 600, 660
Perna, Rossella. MO446
Perovic, Andrej. TU086
Perovic, Svetlana. TU086
Perrein-Ettajani, Hanane. TH003
Perri, Chiara. TU257
Perrière, Fanny. TU298
Perrino, Cinzia. 224, 229, TU370
Persigehl, Markus. TU050
Peruzzo, Massimo. TU342
Péry, Alexandre. 352, 556
Pescatore, Tanita. MO301, TU334, WE033, WE035, WE037, WE038
Pesce, Stéphane. TU025, TU030, WE187
Peschke, Katharina. 513
Pessatti, Tomas. TU127
Pestana, João. 341, TU110, TU140, TU141, WE284, WE351
Peters, Adam. 214, 306, TU198, TU199, TU200
Peters, Greg. 261, 262
Peters, Jens. TH308, TU215
Petersen, Karina. 611, MO178, MO296, TH204
Petersohn, Eleonora. MO373
Peth, Stephan. 487
Petit-Boix, Anna. 254, 258, TH313, TU226, TU227
Petitjean, Quentin. 276
Petralia, Ettore. 285
Petranich, Elisa. MO334, MO346
Petri-Fink, Alke. WE397, WEPC22
Petrosyan, Feliiks. WE060
Petrova, Alena. 530, WE211
Petrovic, Mira. 424, WE129
Pettem, Connor. 50
Pettenati, Marie. MO296
Petti, Luigia. 562
Petti, Monica. WE254
Pezennec, Eric. MO095
Pezzati, Luca. 57
Pezzolesi, Laura. 654
Pfister, Stephan. 131, MO093
Pflugmacher, Stephan. 516
Phan, Audrey. MOPC05
Philibert, Clara. MO021
Philibert, Danielle. MO021, MO246
Philippe, Allan. MO414
Phillips, Claire. TH062
Phillips, David. 186
Phoenix, Vernon. TU157, WE401
Phuong, Ngoc Nam. TU195
Piazza, Clei. TU127
Piazza, Veronica. TU121, TU131, TU308, WE194
Pible, Olivier. 477
Pic-Taylor, Aline. MO267
Picardo, Massimo. TH163
Picard, Sergio. WE287
Piccinetti, Chiara. WE121
Piccini, Leonardo. TU126
Piccinno, Fabiano. 503
Pichot, Yann. TU282
Pickering, Frances. TU339, WE152, WE373
Pickl, Christina. 1
Pico, Yolanda. 391, MO213, MO306, WE136, WE138
Picone, Marco. 325, TU090
Picot-Colbeaux, Géraldine. MO296
Piehl, Sarah. TU154, TU155
Pienaar, Hilde. TU082, WE337, WE346
Pieper, Silvia. 26, 616, MO044, MO051, TH119, TH129, TH156
Pierdet, Manon. WE146
Pierdominici, Elio. WE081
Pierre, Daniel. MO296
Pierron, Fabien. 410, 488, MO336, WE297
Pietrini, Ilaria. TU259, TU260
Pietrojusti, Antonio. TU417
Piggott, Jeremy. 492
Pignata, Cristina. 287
Pignatelli, Vito. TU261
Pigné, Yoann. TU102
Pigozzi, Silvia. TH178
Pijuan, Maite. MO289
Pillii, Anne. TU003, TU004
Pilling, Ed. 329, 494, TU044
Pina, Benjamin. 293, 537, MO055, TH074, WE027
Piña, Benjamin. WE241
Pindo, Juan. 217
Pinelli, Eric. TU034
Pini, Martina. TU218
Pinnekamp, Johannes. WE097
Pino, M Rosa. MO040, TU348, TU349, TU350
Pinsino, Analisa. 590
Pinto, Joana. MO268
Pinto, Thandy. WE171
Pioli, Marianna. TU353
Piot, Christine. TUPC19
Pires, Adília. 490
Pirrone, N.. TU410
Pisania, Markella. TH162, TH181
Piskorski, Rafal. MO202
Pistocchi, Rossella. 654
Pitt, Robert. 272, WE423
Pitta, Paraskevi. 308
Pittino, Francesca. TU248
Pittois, Denis. 137, MO127, MO276
Pittura, Lucia. TH027
Platz, Klaus. MO120, MO207
Plavac, Tena. TU416
Pleiter, Miguel. 525, TH002
Plewa, Michael j. 612
Plósz, Benedek. 42
Plotzke, Kathleen. TH052
Poggioni, Letizia. TU426
Pohl, Johannes. 514, WE083
Pohl, Korinna. MO375, MO377
Pohlmann, Jan-Dag. TU211
Poikkimäki, Mikko. TH083, TH089
Poirier, Laurence. TU195
Poizat, Laurent. WE434
Polakova, Sarka. MO121
Polder, Anuschka. MO036, WE206
Polesel, Fabio. 42, 68, MO324, WE045, WE059, WE095, WE144
Polesello, Stefano. MO296, MO446, TH107, TU342, WE075, WE253
Politowski, Irina. MO449, WE304
Poll, Christian. 487
Pollard, Duncan. WEPC27
Pollesch, Nathan. 599, 600
Polst, Bastian. TU027
Poma, Giulia. 29, MO072, MO080, TUPC20
Pomati, Francesco. 426
Ponis, Emanuele. WE275
Ponsá, Sergio. 655
Ponti, Benedetta. TU138
Poole, Shane. MO159, TH034
Poot, Anton. 3, MO146
Popoola, Oluseun. TH245
Popovici, Emil. TU102
Porcari, Andrea. TH227
Porcher, Jean Marc. 154, WE361
Porchetta, Alessandro. 653
Porta, Pier Luigi. 625
Porte, Cinta. 538, TH074

Portier, Ralph. 101, WE325
 Posada, Rosa. 127
 Posadas, Esther. 80
 Posen, Paulette. 429
 Posner, Stefan. 260, 261
 Possenti, Cristina. 29, MO086, WE253
 Poste, Amanda. TU011, TU304
 Posthuma, Leo. 207, 356, 358, 359, 551, 554, TH286, TU093
 Postigo, Cristina. 452, MO272, MO309, MO311, MO314, MOPC21
 Postma, Jaap. 207
 Potalivo, Monica. 615
 Poté, John. 519
 Potes, Miguel. WE277
 Pothier, Martin. 645
 Potter, Elaine. MO070, TU035
 Potts, Jaimie. 309
 Pouil, Simon. 470
 Poulain, Alexandre. MO344
 Poulet, Nicolas. 210
 Poursat, Baptiste. TU267, TU285
 Pousão, Pedro. 428
 Pousão-Ferreira, Pedro. WE329
 Powell, David. 7, 9
 Pozzebon, Alberto. TU148
 Pozzuoli, Chiara. TU426
 Prada-Rodríguez, Darío. TH103, TU176, TU190
 Pradhan, Arunava. 461, TU123
 Pradinaud, Charlotte. 132, MO093
 Prado, Valentina. TH314
 Praetorius, Antonia. 100, TU355
 Prats, Raimon. WE241
 Prechtl, Leonhard. MOPC07
 Pretti, Carlo. MO417, TU128
 Pretto, Patrizia. TU022
 Preuss, Thomas. 153, 400, 92, MO042, MO219, MO357, MO359, MO361, MO363, WE157, WE369, WE370
 Pribylova, Petra. TU397
 Price, Gwilym. WE185
 Priebojová, Jana. 594, TH188
 Priegnitz, Jan. 373
 Prieto, Ailette. MOPC20, TU133, WE287
 Primpke, Sebastian. MO315, MOPC12
 Prinsen, Els. 84
 Prior, Helen. TH320
 Prochazkova, Tereza. 594, TH188
 Proctor, Abigail. 305
 Proenca, Susana. 267, TU006, TU007
 Prokes, Roman. TU397
 Prosser, Christopher. TH049
 Prostran, Milica. TH189
 Protano, Giuseppe. TU147, WE245
 Provoost, Jeroen. 267, TU006
 Prozmann, Viktoria. MO038
 Pucciarelli, Martina. TH309
 Puccinelli, Camilla. TH203, WE081
 Pucheux, Nicolas. MO214, TH196
 Pugh, Rebecca. 606
 Puigt, Matthieu. TU405
 Pulido-Reyes, Gerardo. 525
 Punta, Carlo. 382, WEPC19
 Puranen, Mikaela. TU178
 Purchase, Diane. 641, TH245
 Puska, Reetta. 582
 Putzu, Daniela. 444
 Pyle, Gregory. 489, TU341, WE272

Q

Qiao, Min. TH150
 Quaglio, Marzia. TU258
 Qualhato, Gabriel. WE417
 Quaranta, Gaetana. WE402
 Queau, Hervé. 230, TH241, WE361
 Quik, Joris. TH083, TH088, TH089, TU091, WE267
 Quintaine, Thomas. TU375
 Quintana, José Benito. 369, 389
 Quintaneiro, Carla. 167, MO257, WE303
 Quinteiro, Paula. MO093, MO105
 Quiroga, José María. TH019
 Quiroz-Jara, Mauricio. 111
 Quist, Jaco. TH314
 Qureshi, Asif. 122, TU290, WE343

R

Ra, Jin-Sung. WE068
 Ra, Jinsung. WE415
 Rabaey, Korneel. TU257
 Rabelo Costa, Bruno Rafael. WE303
 Rachide Nunes, Ramom. WE249
 Radaelli, Giuseppe. WE121
 Radakovitch, Olivier. TH090
 Radelyuk, Ivan. WE099
 Rader, Kevin. TU078
 Radermacher, Georg. 644
 Radola, Diane. 276
 Raes, Katherine. MO252
 Ragas, Ad. 393, 394, TUPC17, WE116, WE181, WEPC14
 Ragulan, Mituna. TH219
 Rahm, Harald. 279, MO316
 Rahman, Mohammad. TU071
 Rahmberg, Magnus. 361
 Rai, Neha. TU069
 Raimundo, Cassiana. MO135, MO293
 Raine, Nigel. 328
 Rajamaki, Timo. MO353
 Rakowska, Magdalena. 272, WE423
 Raldua, Demetrio. WE027
 Ralston-Hooper, Kimberly. 496, WE153
 Rambla-Alegre, Maria. MOPC21, TH202
 Rambold, Gerhard. 487
 Ramilo, Lisa. TU208
 Ramírez Castaño, Viviana Andrea. MO047
 Ramirez Romero, Patricia. MO342, TU073, WE132
 Ramos, Ana. WE227
 Ramos, Fernando. WE100, WE107
 Ramos, Sara. WE240
 Ramsden, Christopher. WE396
 Ranada, Llorina. TH174
 Rance, Graham. 526
 Rand, Jennie. MO338
 Randak, Tomas. WE090
 Randazzo, Basilio. WE121
 Randjelovic, Jasminka. TH078
 Randolph, Eric. MO159, MO259
 Rantalainen, Anna-Lea. WE339
 Rao, Balaji. 272, WE423
 Rao, Shailaja. TH252
 Raqib, Rubhana. TU077
 Raschellà, Giuseppe. 285
 Raschke, Ricarda. TH123
 Rasmussen, Jes. TUPC03
 Rasmussen, Lars. TH158, TH159
 Rasmussen, Lars Holm. 652, TH167, TH170
 Rasmussen, Pat. TU367
 Raspa, Giuseppe. 188, 336, TU245, TU247, TU366
 Rastall, Andrew. WE395
 Rathjens, Hendrik. MO137
 Ratier, Aude. TH241, TH242
 Ratola, Nuno. WE240
 Ratte, Monika. WE164
 Rattner, Barnett. MO069
 Raub, Florian. 266
 Rauert, Caren. 373, 605, TH044, WE047
 Rault, Magali. WE248, WE250
 Rauseo, Jasmin. MO301, WE034, WE035, WE037, WE038, WE040, WE112, WE117
 Ravagnan, Elisa. WE205
 Ravanat, Jean-Luc. TU111
 Ray, Prisca. 574
 Raybould, Alan. MO218
 Razafitianamaravo, Angelina. 385
 Razmara, Parastoo. TU341
 Razza, Francesco. TU234
 Ré, Ana. MO059
 Readman, James. 460, 526, WE399
 Reale, Francesca. TU219
 Reale, Priscilla. 588
 Rebelo, Rafaela. MO136, TU052
 Rebillard, Jean-Pierre. TH250
 Recchioni, Marco. 115
 Redman, Aaron. MO006, MO434, MO438
 Reed, Alyssa. WE122
 Reeg, Jette. 400
 Reemtsma, Thorsten. 159, 280, 53
 Rees, Jean-François. WE028
 Reeves, Graham. 3, MO139
 Regan, Fiona. MO298, MO299
 Reganhan Coneglian, Cassiana. MO039
 Regoli, Francesco. TH027, WE194
 Rehan, Mai. MO154
 Rehse, Saskia. TH017
 Reible, Danny. 272, WE423
 Reich, Jollene. WE271
 Reichenberger, Stefan. 3, MO125, MO129, MO142
 Reid, Malcolm. WE413
 Reid, Melissa. 558
 Reifenhäuser, Werner. 279, MO316
 Reifferscheid, Georg. TH061, TH258, TU182
 Reilly, Katie. TU177
 Rein, Arno. WE059
 Reinelt, Lukas. TU329
 Reinhard, Martin. MO308
 Reininghaus, Mathias. MO429
 Reinken, Gerald. 61, MO147, MO148, MO155
 Reinling, Julie. MO284
 Reis-Santos, Patrick. MO061, WE012, WE020, WE107
 Reitz, Marco. 2
 Remaili, Timothy. WE184
 Renaud, Jean Mathieu. TH263, WE283
 Rendal, Cecilie. 268
 Renshaw, Joanna. WE276
 Renteria Gamiz, Ana. TH306
 Rentschler, Alison. TU080
 Ressler, Herbert. 2, 244
 Restivo, Francesco maria. TU353
 Rety, Josselin. TU375
 Reunamo, Anna. MO004, MO017
 Revel, Messika. TH003
 Rey, Sylvain. TU283

Reyes Vidal, María. WE093
 Reygrobellet, Sophie. TH285
 Reynard, Emmanuel. TU196
 Reynolds, Georgia. WE292
 Rezbach, Felicitas. TU179
 Rezende, Maria. WE249
 Rheinberger, Christoph. 264
 Rhiem, Stefan. TH292
 Ribas, Joan. WEPC28
 Ribeiro, Lucie. 432
 Ribeiro, Rui. MO054, TU117
 Ribeiro, Sara Regina. WE433
 Ricart, Marta. 655
 Riccardi, Carmela. MO198, WE424
 Ricci, Roberto. TU022
 Richardson, Jane. TH283
 Richardson, Susan. MO272, MO293
 Richaume, Agnès. WE172
 Richter, Thomas. MO207, MO207
 Rick, Sebastian. 266
 Ricke, Adrian. WE056
 Rickenbacker, Harold. 228, MO115
 Ricking, Mathias. 220
 Rico, Andreu. 466, 471, TU161, TU162, TUPC02, TUPC06, WE200, WE201, WE204, WE333, WE344, WE349
 Rideout, Natalie. 362
 Ridoutt, Brad. MO105
 Riedl, Verena. WE359
 Riegraf, Carolin. TH061
 Riera, Maria Rosa. TH310, TH312, WE223
 Rieradevall, Joan. TH313
 Rieth, Ulrich. 505
 Rietra, Rene. 128
 Rigaud, Cyril. 110, MO236, MO237
 Righetti, Bárbara. MO064, MO079, TU127
 Righi, Serena. MO103, TU233, TU234
 Riise, Ellen. WEPC11
 Rijnaarts, Huub. WE133
 Rimatskaia, Nadezhda. WE217
 Rimini, Bianca. TU218
 Rinck-Pfeiffer, Stéphanie. 237
 Rintoul, Llew. 646
 Ríos de Molina, María. TU119, TU425, WE161, WE345
 Rioult, Damien. 515
 Ripperger, Dominik. 399
 Risch, Eva. TU107
 Risk, Dave. MOPC26
 Rispekova, Allynay. TH289
 Risse-Buhl, Ute. TU027
 Risser, Theo. MO133
 Rist, Sinja. TH011, TH030, TU183
 Ritchie, David. 638
 Ritter, Amy. TH233
 Riva, Alessio. MO220
 Rivas, Daniel. 139
 Rivera, Jonathan. MO381, TH280
 Rivetti, Claudia. 293
 Rizzuto, Simone. WE353
 Roark, Hunter. 109
 Roat, Thaisa. TU046, TU056
 Robert, Didier. WE092
 Robert, Samuel. TH090
 Roberts, Aaron. 104, 107, 162, 164, MO015
 Roberts, J. 103
 Robidoux, Pierre. MO030, TU063
 Robinson, Alex. 235
 Robinson, Craig. MO259
 Robinson, Hilary. 43
 Robles Gutiérrez, Irma. WE093
 Robson, Samuel. WE289
 Robson, William. MO031

Robuck, Anna. TH102
Rocca, Jennifer. TU014
Rocchetta, Iara. WE345
Rocha, Carolina. WE198, WE199
Rocha, Eduardo. MO138, MO431
Rocha, Marília. WE091
Rocha, Rui. 167
Rocha, Thiago. WE417
Rochard, Eric. TH110, TH111
Roche, Cloé. TU405
Rocher, Vincent. MO190
Rockett, Hannah. WE325
Rocq, Benoit. 286
Rodamer, Michael. TH158
Rodgers, Tim. 334, TU369, WE050
Rodil, Rosario. 369, 389
Rodrigues, Andreia. TU140, WE351
Rodrigues, Débora. 277
Rodrigues, Gonçalo. WE277
Rodrigues, Mariana. 278, TU153
Rodrigues, Maxwell. WE433
Rodrigues, Sónia. 277
Rodríguez, Clara. MO351
Rodríguez, Enrique. TH068
Rodríguez, Patricio. TU376
Rodríguez, Pilar. TU307
Rodríguez Gil, Jose Luis. 106, MO311
Rodríguez Leal, Inés. TH165
Rodríguez Unamuno, Virginia. 586
Rodríguez-Barroso, Rocío. TH019
Rodríguez-Mozaz, Sara. 428, MO311
Rodríguez-Perez, Antonio. MO043
Rodríguez-Roda, Ignasi. MO289
Rodríguez-Estival, Jaime. TU301
Roeben, Vanessa. 92, TH131
Roeder, Nina. TU028
Roelofs, Dick. 414, TU144, WE283
Roessink, Ivo. 509, TU047, WE195
Rogers, Emilie. TH016
Rogolino, Dominga. TU353
Roh, Kyong-Joon. MO305
Rohr, Jason. TUPC01
Rohrer, Jeffrey. MO011, MO277
Rojo-Nieto, Elisa. MO320, MO441
Rokka, Anne. 110, MO237
Rolando, Ludovica. MO208, WE034, WE117
Roldán-Ruiz, Isabel. 135
Roleau, Claude. WE412
Romanelli, Giulia. TU012
Romano, Vincenza. TU019
Romão, João. 509
Romare, Mia. WEPC11
Römbke, Jörg. 266, 561, 616, 620, MO386, WE283, TH118, TH119, TH127, TU001
Romero, Amaya. WE344
Romero, Ana. TH265
Romero, Ferran. 310, TH291, WE326
Romijn, Kees. 184
Romoli, Debora. TH232
Rondinini, Sandra. TH315
Ronkka, Anne. MO236
Rönnefahrt, Ines. 455, WE006, WE024
Rood, Remco. TH207
Roos, Sandra. 261, 262, TU150
Roper, Courtney. 54, TU388, TU400
Ropstad, Erik. TH298
Rortais, Agnes. 657, TU379
Roß-Nickoll, Martina. 487, 555, TH131
Rosa, Derval. MO019
Rosa, João. WE100, WE107
Rosa, Rui. 428
Rosa, Rui. WE329
Rosa, Silvia. TU261
Rosa-Fontana, Annelise. 330
Rosal, Roberto. 525, TH002, WE010
Rosca, Mihaela. TH276
Rösch, Andrea. 231, TH036
Roschatt, Christian. TH246
Rose, Neil. TU166
Rose, Udo. TH292
Rosen, Gunther. 272, WE423
Rosenbaum, Ralph. 131, 132, 133, 197, MO093, TU107
Rosenberger, Timothy. MOPC04
Rosenbom, Annette. 245, 3
Rosenfeldt, Ricki. WE092
Roslev, Peter. TH020, TU336
Ross, Matthew. TU165
Ross, Wendy. 635
Ross-Nickoll, Martina. 266, 619, 92, TH119, TH129, TU005
Rossato, Marzia. TU024
Roszbach, Andrea. TU048, TU050
Roszbach, Lisa. WE408
Rossetti, Simona. 189
Rossetto Martins Zwarg, José Ricardo. MO196, TU317
Rossi, Evi. WE418
Rossi, Luca. WE187
Rossi, Vincent. 500, 502
Rösslein, Matthias. 74
Rostkowski, Pawel. 607
Rota, Emilia. TU363
Rothen-Rutishauser, Barbara. WE397, WEPC22
Rouboa, Abel. WE227
Roudot, Alain-Claude. 14
Roulier, Stéphanie. 246
Roussel, Erwan. TU164
Roussel, Gilles. 225, TU405
Rousselaki, Eleni. 308
Rousselet, Rémi. 378
Routti, Heli. 28
Roux, Philippe. 132, 133, 197, TU107
Rouxel, Julien. TH003
Rovira, Joaquim. TH075, TU392
Rowe, Darren. 454
Rowell, Justine-Anne. 636
Rowland, Steve. MO031, WE412
Rowles, Bob. 251, TU288
Roxane, Ndouba-Avi. MOPC05
Rozhko, Tatiana. 530, WE218
Rozmankova, Eliska. TH274
Rubbiani, Maristella. TH233
Rubio Montejano, Consuelo. 32, TH261
Rucandio, Isabel. TH092, TU089
Ruchter, Nadine. 570
Rückamp, Daniel. 96, MO394, TH127
Rudd, Murray. 598
Ruddle, Natalie. 329, TU044, TU055
Ruedel, Heinz. 605, 641, 644, TH109, TH245, TH248, WE047
Ruff-Salís, Martí. TH313
Ruhl, Aki. 158, 159, TU175, TU179
Ruini, Luca. WEPC23
Ruivo, Raquel. 535
Ruiz, Nieves del Rocío. TH037
Ruiz Mateo, Mario. TU229, TU232
Rummel, Christoph. TU158
Rundberget, Jan Thomas. 469
Rundberget, Thomas. 660
Runnalls, Tamsin. TU024
Rünzler, Dominik. MO187, MO191
Rüschhoff, Judith. MO038
Rusconi, Marianna. MO296
Ruser, Reiner. MO393
Russell, Adam. 185
Russell, David. 266
Russo, Francesca. WE075
Russo, Victoria. TU168
Rutgersson, Carolin. 514
Ruth, Martin. WEPC27
Ruus, Anders. 469, MOPC24, TU011, TU304
Rychen, Guido. 385, MO211
Rydberg, Tomas. MO097, WEPC11
Ryoo, Ilhan. TU136
Ryu, Hyejin. MO154
Ryu, Songhee. WE145
Rønsberg, Marianne. MO031, TH016

S

Saade, Marcella. MO388
Saari, Travis. MO259
Saaristo, Minna. 201, TU324, TU330, TU331
Sabater, Laia. TH291, WE326
Sabater, Sergi. 310, 424, WE326
Sabatini, Sebatían. WE345
Sabbioni, Cristina. 55
Sabóia-Morais, Simone. WE417
Saborowski, Reinhard. TH005
Sabrina, Saponaro. TU255
Saccà, Marialudovica. TH164
Sacchi, Romain. 146
Sacher, Frank. MO375
Sachkova, Anna. 530, WE210
Sackmann, Kathrin. 361
Sadler, Jon. TU177
Sadler, Jonathan. TU189
Sadowski, Jan. MO052
Sadutto, Danielle. WE136
Saenen, Eline. WEPC03
Saenz, Maria Elena. MO403, MO404, MO412, TH266, TU018, TU126, WE076, WE165, WE168, WE169, WE170
Sager, Shawn. WE371
Saghatelian, Armen. MO347
Sagner, Anne. WE395
Sahigara, Faizan. MO101
Sahlén, Axel. TU320
Saija, Giuseppe. 624
Saino, Nicola. 29, MO086, WE253
Sainsbury, Anthony. MO070
Sainsbury, Katherine. 87
Saint-Hilaire, Mailie. MO210, MO211
Sakaguchi-Soeder, Kaori. TH018, TH028, TH029
Sakalauskiene, Sandra. WE350
Saksonov, Michael. WE215
Sala, Serenella. 143, 504, TU099, TU100, TU219
Salazar Hernández, Josefina. MO265
Salbu, Brit. 660, WE334
Sale, Vanna. TU366
Saleem, Sumaira. MO183
Salgado, Lilian. MOPC03
Salgado, Rui. TU313, WE277
Salgueiro-Gonzalez, Noelia. WE014
Salice, Christopher. TH195, TU377
Salieri, Beatrice. 74
Salinas, Ángel. TU383
Salinas, Edward. 493, 495
Saling, Peter. MO387, TH226
Salís, Martí. 258
Sallach, Jonathan. 517
Salomone, Roberta. 624
Salomons, Elad. 570
Salvito, Daniel. MO453, TH278, TU373
Salzano De Luna, Martina. TU090
Salzer, Elias. MO191
Samanipour, Saer. MO296
Samorì, Chiara. TU096, TU233
Sampaio, Mariana. 204
Samsera, Rija. TH280
Samuels, Whitney. TU036
San Martín, Ines. MOPC22
Sanan, Toby. 596, TH190
Sanchez Natumi, Regiane. 595, TH166
Sanchez, Alba. WE333, WE344, WE349
Sánchez, Esther. TU350
Sánchez, Inmaculada. TH310
Sanchez, Marta. 359
Sanchez, Marta isabel. TU130
Sánchez Hernández, Lirio Jasmin. WE132
Sanchez Marin, Paula. TU109
Sanchez Martínez, Elisa. TH064
Sanchez Nieva, Julio. MO320
Sánchez Soberón, Francisco. TU389, TU392, TU393
Sanchez-Barbudo, Ines. 85, MO071, MO075
Sánchez-De Castro, Inés. MO104
Sanchez-Hernandez, Juan Carlos. WE248
Sanchez-Perez, José-Miguel. TU034
Sanchez-Thirion, Kevin. TU298
Sanchís, Josep. WE398, WE399
Sandau, Courtney. MO033
Sanders, Gordon. MO175
Sandersen, Janni. 652, TH170
Sanderson, Hans. 170, MO165, MO371
Sandoval, Christopher. MO067
Sanfilippo, Luca. 653
Sanga, Christian. 217
Sanganyado, Edmond. WE013
Sangion, Alessandro. 396, 664, MO163, TU087, WE066
SanJuan-Reyes, Nely. MO037, WE085
Sáňka, Milan. MO121
Sanni, Steinar. MO028
Sanseverino, Isabella Sanseverino. 615, TU029
Sansone, Giovanni. WE381
Santaella, Catherine. 590
Santen, Manfred. 236
Santo, Nadia. WE305
Santore, Robert. 213, 216
Santoro, Serena. TH232
Santos, Catia. TU428
Santos, Eduarda. WE298, WEPC01
Santos, Lucia. 428
Santos, Marta. WE329
Santos, Miguel. WE029
Santos, Pedro. 461
Santos, Raphael. 210, TU306, TUPC21, WE191
Santos, Raphaël. 535, MO444, TH108
Santos, Ricardo. TH220
Santos, Tiago. 204
Santovito, Gianfranco. TH194, WE075
Santulli, Andrea. MO239
Saouter, Erwan. 267, TH282, TH283, TU006, TU007
Saracco, Guido. TU258
Saraei, Sohrab. 110, MO236, MO237
Sarasquete, Carmen. WE208
Sargolini, Tiziana. 224
Sartori, Davide. WE194

Sasa, Tomoaki. TU284
 Sasaki, Silvio. TU127
 Sathish Lekha, Ashika. TH215, TH216
 Sättler, Daniel. WE073
 Saunders, Cardy. WE242
 Saut, Margaux. TH250
 Sauvage, Sabine. TU034
 Sauve, Giovanna. WE226
 Sauve, Marie-Claude. 587
 Sauvé, Sébastien. 574, TH095
 Savić Zdravković, Dimitrija. WE407
 Savorelli, Federica. WE381
 Sawle, Ashley. 168
 Sbrilli, Giancarlo. WE381
 Scagliarino, Claudia. 625
 Scalbi, Simona. 588
 Scalco, Andrea. TU342
 Scanes, Peter. 309
 Scarascia Mugnozza, G. TU410
 Scenati, Raffaele. TU316
 Schaal, Alexandre. TU164
 Schaanning, Morten Thorne. 506
 Schaap, Iris. 12
 Schad, Thorsten. 59, MO125, MO219
 Schade, Stefan. WE290, WE292
 Schaefer, Dieter. MO124, MO147, MO155
 Schaefer, Ralf Bernhard. 344, 347, 362, 363, 365, 492, TUPC01
 Schaefer, Sabine. MO440
 Schaefers, Christoph. 52, 663, TU118
 Schaeffer, Andreas. 487, 555, 68, 92, MO427, MO449, TH211, TH249, TH299, TU095, WE054, WE055, WE061, WE127, WE304
 Schäfer, Jörg. TU070
 Schäfer, Ralf. WE273
 Schäffer, Andreas. 432
 Schartup, Amina. WE343
 Schaubroeck, Thomas. 374
 Schebek, Liselotte. TH029
 Scheef, Gregor. 33
 Scheffczyk, Adam. TH119, TH127
 Schell, Theresa. TU161, TU162, WE176
 Schellenberger, Steffen. 261, 262, 263, 323, TU150
 Schenke, Detlef. TU302
 Scherbak, Nikolai. MO254, TH214
 Scherer, Laura. 131
 Scheringer, Martin. 21, 580, TH169
 Scheurer, Marco. 247, 457
 Schiavo, Simona. MO414, TH094, TU008, TU019
 Schiedek, Thomas. TU294
 Schilirò, Tiziana. 287, TU258
 Schiller, Viktoria. TH215, TH216
 Schimmelpfenning, Heike. 581
 Schioppa, Nicoleta. TU102
 Schirinzi, Gabriella. 156
 Schirmer, Kristin. 168, 169, 571, TH041, TH083, TH212, TU186, WE046, WE307
 Schiwiy, Andreas. MO162, TH039
 Schiwiy, Sabrina. MOPC04, TH039, TH215, TH216, WE086, WE097, WE188, WE193
 Schlabach, Martin. 607
 Schlechtriem, Christian. 37, 39, 561, MO158, MO409, MO411, TH042, TH093, WE045, WE046, WE047
 Schlekat, Christian. 212, 214
 Schlenk, Daniel. 162, 166, MO293, MO430, WE352, WE428
 Schlenker, Lela. 161, 162
 Schlich, Karsten. 96, MO394, MO395, MO410, TH154, TU118
 Schliebner, Ivo. WE073
 Schlosser, Olivier. 612
 Schlosser, Sonja. 406
 Schloter, Michael. 487
 Schmeller, Dirk. MO212
 Schmid, Arno. TH246
 Schmidt, Anja. WE009
 Schmidt, Christian. 280
 Schmidt, Felix. 219
 Schmidt, Friedhelm. 434
 Schmidt, Gunnar. WE365
 Schmidt, Jana. 373
 Schmidt, Jannick. 196
 Schmidt, Stine. MO437
 Schmidt, Thomas. 560
 Schmidt, Torsten. TU318
 Schmidt, Werner. MO230
 Schmidt-Posthaus, Heike. 662
 Schmiedgruber, Michael. 219
 Schmieg, Hannah. TU175, TU179
 Schmitt, Heike. WE267
 Schmitt, Thomas. 220
 Schmitt-Jansen, Mechthild. 474, TU026, TU027, TU158, WE368
 Schmitz, Markus. WE293
 Schmitz, Susanne. WE006
 Schmitzer, Stephan. TU040
 Schmutz, Mélanie. TU092
 Schneider, Christof. TU047, TU048, TU049
 Schneider, Marcel. TH173
 Schneider, Markus. 244
 Schneider, Rudolf. 23
 Schneider, Simon. WEPC13
 Schneider, Thierry. TU385
 Schnitzler, Frauke. WE070
 Schnurr, Alexander. TU047, TU048
 Schöbinger, Ulrike. TUPC10
 Schoenenberger, Rene. 169, TH041
 Schoenfluss, Heiko. 659, TH056, TH057, TH058, TH059, TH060, TH079
 Schoensee, Carina. TH168
 Schoeters, Ilse. 618
 Schofield, David. 5
 Schofield, Henry. 87
 Schoknecht, Ute. MO372, WE422
 Scholz, Stefan. 171, 474, 53, 594, 600, TU322
 Scholz Starke, Bjoern. TH119
 Scholz-Starke, Bjorn. 266, 555, 619, TH129, TU005
 Schrama, Maarten. 364
 Schrank, Isabella. 279, 342, MO316, TU191
 Schreiner, Verena. 347, 365
 Schreitmüller, Jörn. WE382, WE383
 Schriever, Carola. 2
 Schrijvers, Dieuwertje. 256, 318
 Schriks, Merijn. 24
 Schrlau, Jill. MO286
 Schröder, Katja. WE086
 Schröder, Nicola. MO409
 Schröder, Winfried. 404, 405, WE239
 Schroeder, Anthony. 241, MO053, MO259, TH288
 Schroeder, Peter. WE149
 Schubert, Jonas. MO395
 Schuer, Christoph. TU183
 Schuettrumpf, Holger. 570
 Schug, Hannah. 571, TH212, WE046
 Schuhmacher, Marta. TH075, TU389, TU392, TU393, WE244
 Schulin, Rainer. MO199
 Schulte, Agnes. WE048
 Schulte, Anna. MO158
 Schultz, Carolin. MO401, MO405
 Schultz, Irvin. 354, TU212
 Schultze, Sabrina. TU304
 Schulz, Aurélie. WE402
 Schulz, Ralf. 344, TU028, TUPC04, WE092, WE105, WE176, WE335
 Schulz, Stefanie. 487
 Schulze, Rita. TU214
 Schulze, Tobias. 19, 239, 296, 51, 572, MO285, TH215, TH216, TU133, TU317
 Schumann, Mark. 570
 Schur, Sara. MO251
 Schuster, Hanna. TU002, TU339, WE373
 Schuur, Stacy. 606
 Schuurmann, Gerrit. MO170, MO171, MO183, MO184, MO188, MO203, TH054, TU253, TU270, WE067, WEPC18
 Schwab, Fabienne. 541, WE397, WEPC22
 Schwabe, Ines. TH029
 Schwaiger, Julia. 279, MO230, MO316
 Schwalb, Antje. WEPC04
 Schwander, Maura. MO374
 Schwarz, Helmut. TU275
 Schwarz, Simon. 455, WE023, WE024
 Schweitzer, Michael. MO374
 Schweizer, Mona. MO038
 Schwen, Andreas. 3, MO146
 Schwientek, Marc. WE134
 Schwirn, Kathrin. TH084, TH085, TH086, TH091, TH093
 Schwonbeck, Susanne. WE026, WE390
 Schymanski, Emma. 239
 Schøyen, Merete. MO380, MOPC24
 Sciotti, Alessandra. 442
 Scippo, Marie-Louise. TH298
 Sclavo, Mauro. TU155
 Scorza Junior, Romulo. MO136
 Scott-Dupree, Cynthia. 328
 Scotter, Sophie. 28
 Scrimshaw, Mark. TU024
 Scudiero, Rosaria. WE252
 Seal, Andrew. 542
 Sebastiani, Diego. 445, WE041
 Sebbio, Claudia. TU012, WE173
 Secchi, Michela. 143, 504
 Sechet, Pauline. 523
 Seehase, Sophie. TUPC09
 Segner, Helmut. 301, 662, TH041, TH042, TH054, TH212, WE046
 Segovia, Elvagris. MO439, WE342
 Sehnal, Luděk. 594, TH172, TH188
 Seidel, Michael. 192
 Seidensticker, Sven. 283, TU173
 Seiler, Thomas-Benjamin. 163, 301, 486, 549, 550, 570, TH211, WEPC16
 Seitz, Frank. WE092
 Seiwert, Bettina. 53
 Selby, Katherine. TH297
 Selck, Henriette. 527, 666, TU373
 Selhorst, Frenk. WE179
 Sellarès, Nuria. 655
 Selleri, Alberto. 443
 Selonen, Salla. TH001
 Semenzin, Elena. 325, TU090
 Semmouri, Ilias. 473, WE281
 Sempere, Richard. TH018
 Semrau, Jeremy. 380
 Sendra, Marta. WE404
 Senior, Claire. MO070
 Senta, Ivan. 79
 Seo, Tae-Cheol. WE431, WEPC17
 Seo, Yong-Deuk. WE431, WEPC17
 Seol, Bitna. 449
 Seol, Soyeong. TU098
 Seol, Yohan. MO378, TH271, TU137
 Serpe, Angela. TH245
 Serra, Noemi. TU389
 Serre, Jeanne. WE266
 Sessa, Filippo. 500, WEPC27
 Sesta, Giulio. TU012, WE341
 Seston, Rita. 9
 Settimo, Gaetano. TU402
 Settles, Matthew. 109
 Ševců, Alena. TU251
 SEVERYNS, JO. MO274
 Seville, Antony. 185
 Sey, Yusupha. MO272
 Seyfried, Markus. TU283, TU286
 Sezenna, Elena. TU255
 Sferratore, Agata. 197
 Sforzi, Andrea. MO085
 Sforzini, Susanna. 460, 526
 Sfriso, Adriano. WE275
 Sgier, Linn. TU186
 Shabi, Rasheed. WE135
 Shah, Nilay. 316
 Shahid, Naeem. 233
 Shahmohammadi, Sadegh. MO391
 Shahsavarani, Arash. 587
 Shakibay, Dror. TH061
 Sham, Ronia. MO012, TU289, TU305
 Sharma, Bibek. 328
 Sharma, Brij. 21
 Sharma, Raju. TH075
 Sharma, Ramon. MO169
 Sharma, Vikram. WE291
 Sharp, Elizabeth. MO070
 Sharp, Rachel. 180, 327, MO048, MO057
 Sharples, Amanda. 329, TH124, TH155, TU044
 Sheahan, Dave. TH257
 Shekh, Kamran. 634
 Shen, Li. TU093
 Shen, Xiaoteng. 223
 Sherman, Sam. 213
 Sherry, Angela. TU257
 Sherwood, Tracy. MO234
 Shevah, Yehuda. 641
 Shi, Lei. TU391
 Shibata, Yasuyuki. 408
 Shiels, Holly. 165
 Shim, Wonjoon. WE410
 Shimizu, Kaori. TH270
 Shimizu, Yuichi. MO231
 Shimmings, Paul. 348
 Shin, Yongho. MO154
 Shinde, Amar. MO116
 Shiraishi, Hiroaki. MO164, MO192
 Shironitta, Kayoko. MO110
 Shoeib, Mahiba. TU369
 Shoeib, Tamer. TU369
 Shore, Richard. 205, 87, MO069, MO070, MO073, TU010, TU035
 Short, Stephen. 235
 Shrestha, Prasit. 67
 Shuliakovich, Aliaksandra. TH070, WE086, WE097, WE188, WE193
 Siausat, David. TU340
 Sibley, Paul. WE197
 Siciliano, Maria. 284, 288
 Siciliano, Steven. 274, TH132, TH263
 Siciliano, Tiziana. 288
 Siebert, Marília. MO064, TU127
 Siegers, Wolter. MO287
 Siegert, Florian. TU154, TU155
 Siegert, Marc-William. 75

Siegwart, Myriam. WE250
 Sieira, Benigno Jose. 369
 Sierra, Jordi. TU392
 Sigmund, Gabriel. MO426
 Signorini, Antonella. TU261
 Sigurgeirsson, Aðalsteinn. WE240
 Silas, Tатаh. TH267
 Silcock, Paul. MO279
 Sileno, Giulia. 628
 Silva, Adrian. WE076
 Silva, Ana. TH293, TU142, TU428
 Silva, Carla. TH183, TH184
 Silva, Carlos. 341, TU359
 Silva, Cátia. TH184
 Silva, Eduardo. 490
 Silva, Jose. WE240
 Silva, Juliana. MO005, MO018
 Silva, Lillian Cristina Soares. MO019
 Silva, Maristela. MO388
 Silva, Patricia. 40, TU142, TU292
 Silva, Sofia. MO014
 Silva de Assis, Helena Cristina. 516, MOPC03
 Silva Tavares Duarte, Daniel João. WE116
 Silvani, Ludovica. MO198, MO350, MO428, TH096, WE424
 Silveri, Federica. 562
 Silveyra, Gabriela. TH068
 Silveyra, Patricia. TH068
 Silwana, Bongwiwe. MO295
 Sim, Vivian. 309
 Simbekova, Elena. 529
 Simboura, Nomiki. 308
 Simek, Zdenek. MO121, TH146, TU420
 Simini, Michael. TH138
 Simion, Isabela. TH276
 Simmons, Jane Ellen. MO272
 Simmons, Melinda. WEPC12
 Simms, Madie. WE319
 Simó, Enrique. MO213
 Simoes, Tiago. 414, TH183, WE283
 Simões-Lopes, Paulo. MO064
 Simon, Anne. TU318
 Simon, Elisabeth. TH153
 Simon, Eszter. TH219
 Simon, Markus. 561, TU151
 Simon, Marta. 282, MO315, TU160, TU170, WE148
 Simon-Hettich, Brigitte. WE018
 Simonetti, Giulia. TU370
 Simonich, Staci. 54, TU388, TU412
 Simonin, Marie. TU014
 Simonnet-Laprade, Caroline. MO300, TH108, TU306
 Simpson, Peter. 264
 Simpson, Stuart. 309, 507, WE184, WE185
 Simukoko, Chalumba. WE206
 Sinclair, Chris. WE135
 Sinclair, Tom. WE354
 Sinfort, Carole. MO094, TU107
 Singer, Eugenio. TU380
 Singer, Heinz. 365, TUPC05
 Singh, Rajesh Kumar. MO116
 Sinnige, Theo. MO203
 Sipos, Sandor. MO258, MOPC01
 Sips, Adrienne. TU091
 Sittig, Stephan. 61, MO129, MO148
 Sjerps, Rosa. 24, WE077
 Sjödin, Marcus. TH112
 Skårman, Tina. 361
 Skjolding, Lars. TH082
 Skogerbø, Geir. TU163
 Skopinski, Michael. TU003, TU004
 Skov Pristed, Mathias. TUPC03
 Skrbcic, Natasa. TH159
 Skuce, Rebecca. WE401
 Skulcova, Lucia. MO121, MO200, TH146, WE432
 Slaveykova, Vera. 519, MO333, MOPC28
 Slawek, Sophie. TU174
 Sleep, Darren. 87, MO070
 Slencu, Bogdan. MO310
 Slobodnik, Jaroslav. 239, 300, 572
 Slomberg, Danielle. 590, TH090
 Slood, Laura. 95
 Sloodmaekers, Bart. TH268
 Sloodweg, Jaap. TH088
 Smedes, Foppe. MO439, TH209
 Smeti, Evangelia. 424
 Smidova, Klara. TH148
 Smilgaitis, Paulius. WE243
 Smit, Els. TH113
 Smit, Mathijs. MO002, MO023
 Smit, Nicholas. TU013
 Smital, Tvrtko. 79
 Smith, Andy. TH062
 Smith, Balthasar. TU265
 Smith, D Scott. 213
 Smith, Jim. TU108
 Smith, Kathryn. 425
 Smith, Kilian. 68, MO427, TH211, TH249, WE127
 Smith, L. Cody. 599
 Smith, Rhiannon. 583
 Smith, Robert. 26
 Smith, Ross. 638
 Smith, Thomas. 155
 Smits, Judit. TU301
 Smits, Judit E.G. MO001, TU077
 Smol, John. 407
 Smolders, Erik. 99
 Smurov, Andrey. WE338
 Smutna, Marie. 594, TH188, TH209
 Snape, Jason. Keynote Wednesday, 251, 392, 425, 511, 520, 521, TU288, WE007, WE087, WE104
 Snapir, Boris. 129
 Snowball, Hilda. 636
 Snyman, Reinette. TU116
 Soares, Amadeu. 167, 234, 269, MO046, MO257, MO340, MO355, MO407, MO417, TH015, TH218, TU110, TU135, TU141, TU142, TU359, TU428, WE284, WE303, WE312, WE327, WE328, WE351, WE385, WEPC20
 Soares, Carlos. WE137, WE288
 Soares, Sofia. WE312
 Soares-Lima, Hellen Maria. TH137
 Sobek, Anna. 332, 8, MO440, TU269
 Sobral, Paula. TH008
 Sobrino-Figueroa, Alma. MO176, MO177, MO232, MO264, MO265, WE032
 Sofield, Ruth. TU415
 Soggiu, Maria eleonora. TU402
 Sohm, Bénédicte. 528
 Sohn, Joshua. TU230
 Šojić, Lazarija. TH078
 Solbakken, Eivind. 64
 Solé, Magali. 402
 Solé, Montserrat. 451
 Soler, Eugenia. TU045, TU047
 Solevic Knudsen, Tatjana. MO020, TU279, TU368
 Solga, Andreas. WE157, WE369, WE370
 Solhaug, Knut. TH318, WE334
 Solic, Mladen. 123
 Soligot, Claire. 385
 Soller, Matthias. TU056
 Som, Claudia. 503, TU092
 Somerset, Vernon. MO282, MO295, MOPC25, TU362, TU371
 Son, Jino. TH134, TH140, TH142
 Son, Kyeong-Ae. MO134
 Sonderegger, Thomas. 318, MO093
 Song, Moonwhan. WE415
 Song, You. 660, TH204, TH318, TH319, WE296, WE334
 Song, Young Kyung. WE410
 Sonne, Christian. MO072, TH038
 Sonnemann, Guido. 256, 441, 72, MO091
 Sonnenberg, Helga. TU208
 Sorensen, Mary. TH237
 Sorge, Roberto. 445
 Sorli, Juan. TU042
 Sorme, Pernilla. 512
 Sormo, Erlend. MO350
 Sosa, Silvio. 654
 Sosienski, Theresa. MO281
 Sossey, Khadija. WE361
 Soto, Manu. MO403
 Soto, Manuel. MO007, MO009, MO029, TU070, TU143
 Sotti, Francesca. MO077
 Soukka, Risto. WE257
 Sousa, Cristina. TH137
 Sousa, José Paulo. 414, 559, 616, 620, MO083, TH118, TH137, TH263, WE283, WE420
 Souza, Thaís. TU263
 Sowa, Grzegorz. TH145
 Sowig, Peter. 25
 Spadini, Lorenzo. WE114
 Spadola, Giorgio. TU353
 Spångfors, Helena. 311
 Sparham, Chris. TH290
 Sparks, Conrad. TU036
 Sparrevik, Magnus. 71
 Spasić, Svetolik. TH189
 Spataro, Francesca. MO301, TU241, WE033, WE037, WE112
 Speer, Stephanie. 53
 Spehr, Marc. MO270
 Speich, Sabrina. TH006
 Speichert, Gunther. 433, WE057
 Speirs, Lucy. TH290
 Spence, Michael. TU314
 Spencer, Lucie. 163
 Spengler, Hermann. 447
 Sperfeld, Erik. WE357
 Spickermann, Gregor. MO124
 Spijker, Job. 322, WE267
 Spilsbury, Francis. TH295
 Spitz, Jérôme. TU295
 Sprenger, Dennis. 62
 Springer, Timothy. 401, 497
 Spromberg, Julann. 354
 Sprovieri, Francesca. MO335
 Sprovieri, Mario. MO239
 Spurgeon, David. 235, MO401, MO405, TH083
 Spycher, Barbara. TUPC05
 Spycher, Simon. TH217, TUPC05
 Srikhumsuk, Phatchani. WE276
 Srocka, Michael. MO114
 St Mary, Lindsey. WE406
 Staab, Frank. TH124, TH155, TU001
 Stadnicka-Michalak, Julita. 169, TH041
 Stahl, Franziska. TU266
 Staines, Anthony. MO298, MO299
 Stallinga, Hein. MO149, MO151
 Stamm, Christian. TUPC05
 Stanaway, Mike. TH195
 Standaert, Arnout. 226
 Stange, Claus Florian. 96
 Stanković, Jelena. WE407
 Stanojević, Marija. TH189
 Stanton, Isobel. 520, 521, WE112
 Stanton, Thomas. 281
 Stark, Jochen. 279, MO316
 Stark, John. 94, MO368
 Stauber, Jennifer Lee. 305, WE185
 Staude, Claudia. TH114, TU345
 Staudenmaier, Horst. 244, 3
 Staveley, Jane. 33, 496
 Stec, Anna. MO454
 Stedtfeld, Robert. WE101, WE115
 Steeger, Thomas. 601
 Steen, Bengt. WEPC11
 Steets, Brandon. 272, WE423
 Stefanelli, Mara. TH180
 Stefanidis, Kostas. 359
 Stefanoni, Massimo. WE036
 Steffens, Sebastian. 570
 Steiger, Silke. MO074
 Steinberg, Peter. 309
 Steinhoff, Heinz-Juergen. WE056
 Steinitz Kannan, Miriam. TH160
 Steinmann, Zoran. MO391
 Stella, Elisa. 424, 427
 Stella, Tatiana. TU248, TU259, TU260
 Stemmer, Michael. 3
 Stenrød, Marianne. 64
 Sternberg, André. TU097
 Sterpone, Silvia. MO163
 Stetefeld, Jorg. MO027, MO033
 Stevens, Caroline. WE362
 Stevenson, Karen. WE412
 Stevenson, Louise. 353
 Steyer, Jean-Philippe. 16
 Stibany, Felix. 68
 Stichnothe, Heinz. MO393, WE237
 Stieglitz, John. 161, 162, 164, 165, MO015
 Stockens, Evelyn. MO256, MO259
 Stock, David. 185
 Stock, Eric. WE272
 Stocker, Julien. TU009
 Stockmann-Juvala, Helene. 588
 Stoddart, Gilly. 493
 Stoeck, Serena. MO053
 Stoks, Robby. 366, 367, WE330
 Stolte, Stefan. TH152, TU094
 Stom, Alina. WE215
 Storgaard, Morten. MO371
 Stracquadanio, Milena. 285
 Strand, Roger. Keynote Sunday
 Strapáčová, Simona. 631
 Strassemeyer, Joern. 64
 Straub, Jürg Oliver. WE018, WE021
 Straumer, Katharina. MO034
 Strauss, Tido. 149, 152, MO362, MO364, TU115, TU185, WE301
 Stravinskene, Ekaterina. WE213
 Streck, Thilo. 487
 Strecker, Eric. 272, WE423
 Streissl, Franz. 26, MO048
 Striffler, Albrecht. WE073
 Strobel, Adelle. TH038
 Strobel, Bjarne. 597, 652
 Struijs, Jaap. WE392
 Strydom, Nadine. MO084
 Strzalkowski, Ryszard. MO076, TH254
 Stubbings, William. TU369
 Stubblefield, Bill. 212, 216, TU376
 Stucki, Matthias. MO106, TU231
 Study Group, MAPEC LIFE. 287, TU353
 Sturba, Lucrezia. WE245
 Sturve, Joachim. 462, 527, MO008, TH055
 Stutchbury, Bridget. MO068

Stutt, Edward. WE147
 Styczen, Merete. TH171
 Stylianou, Katerina. 375, 380, WE264
 Stylianou, Marios. TU254
 Styriahave, Bjarne. MO072
 Størseth, Trond. MO031, MO318
 Su, Jian-Qiang . 518
 Suárez-Ojeda, María Eugenia. TH313
 Šudoma, Marek. MO121, TH146
 Suehring, Roxana. TH062
 Sujetoviene, Gintare. WE243, WE348, WE350
 Sukovic, Danijela. TU086
 Sukumara, Sumesh. 501
 Sulmon, Cecile. WE154
 Sultana, Tamanna. MO303, MOPC17
 Summers, Stephen. WE411
 Summerton, Louise. TU234
 Sumon, Kizar. 362
 Sumon, Kizar Ahmed. 363
 Sumrein, Abdelqader. WEP08
 Sun, Chengliang. 450
 Sun, Jiachen. 211
 Sun, Qi. 640
 Sundaravadivelu, Devi. 596
 Sundelin, Anna. 200
 Sunderland, Elsie. 576, 578, 640, WE343
 Sundermann, Andrea. WE273
 Sundh, Henrik. TH007
 Sundin, Josefin. TU328
 Sundt, Rolf. TH234
 Suomi, Tomi. 110, MO236, MO237
 Superville, Pierre-Jean. MO349
 Supian, Suffeiyah. TU189
 Sur, Robin. 2, 3, MO129, MO137, TH272
 Surati, Kirankumar. TH245
 Sures, Bernd. 355
 Surette, Mark. MO419, WE400
 Süß, Jacqueline. TUPC09, TUPC10
 Suski, Kaitlyn. 289, TU400
 Sussarellu, Rossana. TH003
 Sutherland, Cary. MO006, MO186
 Sutherland, Michael. 309
 Sutormin, Oleg. WE217
 Sutton, Rebecca. 10
 Suzuki, Takahiro. TU284, WE052
 Suzuki, Toshinari. WE004
 Svava, Vid. TU113
 Sveinsson, Henrik. TU038
 Svendsen, Claus. MO401, MO405, MO425
 Svobodová, Markéta. MO121, TH146, TH148
 Svrzková, Lucie. 631
 Swales, Sharon. TH130
 Swanson, Penny. 354, TU212
 Swarowsky, Klaus. 402, MO225, MO226
 Swarup, Sanjay. 309
 Swarzenski, Peter. 470, MO329
 Sweeney, Paul. 2, 5, MO141
 Sweet, Lauren. 164
 Sweetlove, Cyril. 249, TU281, TU282
 Sweetman, Andrew. TH023, TU408
 Swiatek, Zuzanna. MO398
 Swintek, Joseph. MO259
 Sybertz, Alexandra. 555
 Sychrova, Eliska. 594, TH188
 Sylte, Ingebrigt. 660, MO194, TH199
 Szczesniak, Bronislawa. TU040, TU041
 Szentes, Csaba. 327
 Szöcs, Eduard. 347, 365
 Szostak, Justyna. 472
 Søndergaard, Jens. 211
 Sørensen, Lisbet. MO031, MO318, MOPC11, TH016
 Sørensen, Sara. TH082, TH083
 Sørup, Hjalte. 378

T

Tadeo, José Luis. WE106, WE108
 Taggart, Mark. 177, MO459, TU117
 Taghavimehr, Jamal. MO263, WE293
 Tagliati, Alice. TH296, TU096, WE336
 Tagliavini, Emilio. TU096, TU233
 Taillandier, Franck. 441, MO091
 Tait, Mark. TH024
 Takeuchi, Hisato. MO231
 Talikka, Marja. 472
 Tallandini, Laura. TH194, WE075
 Tamayo-Belda, Miguel. 525, TH002
 Tamborra, Marialuisa. 114
 Tanaka, Kaori. TU054
 Tanaka, Nobuyuki. TU072
 Tancioni, Lorenzo. TH203
 Tang, Jianhui. 70
 Tang, Kai. 77
 Tang, Song. 108
 Tanguay, Robert. 54, TU388
 Tani, Almona. TH229
 Taniguchi, Satie. TU127
 Tanner, James. TU324
 Tao, Lin. WE251
 Tao, Lyu. 390, 82
 Tao, Shu. TU414
 Tapie, Nathalie. MO133, MO275
 Tappin, Alan. 511, WE087
 Tarazona, Jose. 657
 Tarelho, Luís. 277
 Tarnovska, Denitsa. MO405
 Tartaglione, Luciana. 654, TH178
 Tartiu, Valentina Elena. TH229
 Tasselli, Stefano. 615
 Tatarazako, Norihisa. MO164, MO192
 Tato, Tania. TH222
 Tatsuta, Haruki. MO231
 Tauler, Romà. WE027
 Taylor, Allison. MO430, WE428
 Taylor, Anne. 507
 Taylor, Caz. 102, MO442
 Taylor, Mark. 263
 Taylor, Nadine. WE290, WE292
 Taylor, Peter. 44
 Tcheremenskaia, Olga. TU024
 Te, Shu Harn. TU016
 Tebby, Cleo. 668
 Teclechiel, Daniel. TH199
 Tedim, João. 234, WEP020
 Teigeler, Matthias. 52, 663, WE375, WE376
 Teixeira, Camilla. 69
 Teixeira, Tania. WE204
 Teixido, Elisabet. 171
 Teles, Mariana. TH015
 Telfer, Trevor. 466, WE204
 Tell, Joan. WE018
 Tella, Marie. TH153
 Telscher, Markus. 243, 432, 434
 Ten Broek, Rob. 632
 Ten-Hage, Loic. TU298
 Tenji, Dina. MO258, MOPC01
 Teodorovic, Ivana. 301, 550, MO258, MOPC01
 Teoldi, Federico. TU399
 Tepanosyan, Gevorg. MO347
 Tepe, Nathalie. MO423
 Ter Horst, Mechteld. WE204
 Ter Laak, Thomas. MO287, MO384
 Terceo Gómez, María del Carmen. TU300, WE332
 Terekhova, Vera. 532, 533
 Terlouw, Tom. MO389
 Termes, Montserrat. TU229
 Ternes, Thomas. 433, MO296, WE057
 Terrado, Eva. TU349
 Terribili, Luca. MO346
 Terzaghi, Elisa. 188, 336, 63, MO223, TU245, TU247, TU366
 Terzic, Senka. 79, MO292
 Tesconi, Enzo. TU148
 Testai, Emanuela. 656, TH180
 Teubner, Diana. 209
 Teuchies, Johannes. WE183, WE192
 Teunen, Lies. MO451
 Teychene, Benoit. 369
 Tez, Serkan. TH223
 Thackray, Colin. 578, WE343
 Thal, David. TH255
 Thalmann, Beat. MO162, TH039
 Thao Nguyen, Mai. 628, 629
 Thaulow, Jens. WE296
 Thébault, Julien. 410
 Thiamkeelakul, Kesiree. TU080
 Thiel, Cassandra. MO115
 Thiel, Pauline. 556
 Thiele, Karen. WE049
 Thienpont, Joshua. 645
 Thit Jensen, Amalie. 527
 Thoma, Astrid. MO375
 Thomaidis, Nikolaos. 239, MO250
 Thomas, Cyril. TH233
 Thomas, Jith. 50
 Thomas, Kevin. MO296, MO332
 Thomas, Linnea. 659
 Thomas, Mark. MO119
 Thomas, Paul. MO101, MO172, MO370, TH280, WE209, WE388, WE391
 Thomas, Phillippe. MO027, MO033
 Thomas-Oates, Jane. 335
 Thomé, Jean-Pierre. MO210
 Thompson, Anne. WE153
 Thompson, Helen. 328, TU055
 Thompson, Nicola. MO070
 Thompson, Richard. 160, WE412
 Thonemann, Nils. TU171
 Thorbek, Pernille. 89, 93, MO166, MO218, TH147, TU055, TU377
 Thorlacius, Magnus. TU328
 Thorup, Kasper. 211
 Thraen, Daniela. 145
 Tian, Lei. MO284
 Tiedje, James. WE101, WE115
 Tien, Henning. TU081
 Tien, Yuan-Ching. 522
 Tierney, Keith. MO021, MO246
 Tikana, Ladj. 318
 Tillmanns, Angeline. WE272
 Tillmanns, Mark. TU097
 Tilmans, Antoine. TU223
 Tilton, Charlene. MO159
 Timmermans, Benoit. 317
 Timmis, Jonathan. WE007
 Tinant, Gilles. WE028
 Tindall, Andrew. 296, MO190, MOPC05
 Tipatet, Kevin. 393
 Tirado Seco, Pablo. 17
 Tirello, Paola. TU148
 Tirez, Kristof. WE418
 Tisca, Juliana. TU127
 Tisler, Selina. 395, TU329
 Titaley, Ivan. TU412
 Titchener-Hooker, Nigel. 437
 Titelman, Josefin. WE331
 Tittone, Alessandro. TU024
 Tivefåth, Malin. TH021
 Tiwari, Anoop. TU290
 Tlili, Ahmed. 301, TU025, TU026, TUPC05
 Tobor-Kaplon, Marysia. MO228, MO229
 Todd, Daniel. WE119
 Toelgyesi, Laszlo. MO281
 Tofful, Luca. 224
 Tokito, Shohei. WE233
 Toledo e Silva, Guilherme. TU127
 Tollefsen, Knut Erik. 300, 611, 660, MO178, TH204, TH318, TH319, TH321, WE296, WE334
 Tolosa, Imma. MO329
 Toma, Cosimo. MO185
 Tomasini Montenegro, Claudia. WE230
 Tomaz, Alexandra. WE277
 Tombre, Ingunn. 348
 Tominaga, Maria. TU408
 Tomimaga, Nobuaki. MO173
 Tomiyama, Daisuke. TU284
 Tomkiv, Yevgeniya. TU384, TU385
 Tomy, Gregg. MO027, MO033, MO251
 Tonda, Elisa. 117
 Tonelli, Carlos. TU052
 Tong, Lei. TU403
 Tongo, Isioma. MO238, WE141
 Tonini, Federico. TH037
 Tonon, Davide. TU237
 Toornant, Erik. 223
 Toose, Liisa. TH043
 Töpel, Mats. MO008
 Topinka, Jan. 631
 Topp, Edward. 522
 Topping, Chris. 26
 Topping, Christopher. 91, MO083, TU379
 Topuz, Emel. MO291, MO402
 Tormen, Nicola. TH194, WE075
 Tornambè, Andrea. TU012
 Tornisiello, Alex. MO136
 Toro, Beatriz. MO047
 Torregrossa, Dario. 195
 Torreiro-Melo, Anny. MO018
 Torrent, Fernando. TH092, TU089
 Torres, Jesús A. TU235
 Torres, Ricardo. WE204
 Torres Sanchez, Maria. TH236
 Torresi, Elena. 77
 Torri, Cristian. TU233
 Tort, Lluís. TH015
 Toschi, Nicola. TU417
 Toschki, Andreas. 266, 619, MO219, TU115
 Tosi, Cristian. TH304
 Totti, Cecilia. 654
 Touffet, Arnaud. 369
 Touffet, Arnaud. 371
 Tousova, Zuzana. 572, TH209
 Town, Raewyn. TH268
 Toyomaki, Haruya. WE246
 Trabucco, Sara. TH194
 Trac, Lam. MO436, MO437
 Tran, Kelly. 351
 Tran, Ngoc Han. MOPC18
 Tran, Nguyen. MO369
 Tran, Olivia. TU314
 Tran, Tam. 366
 Tran, Thanh Tam. WE330
 Trannum, Hilde. 46

Trannum, Hilde Cecilie. 506
 Trapp, Judith. 477
 Trapp, Stefan. 432, 68, WE045, WE059, WE061, WE144
 Traub, Martin. MO207
 Traunspurger, Walter. 202, TH123, TH149
 Traversi, Deborah. TU258
 Traverso, Marzia. 564
 Travis, Kim. MO218
 Travlos, Ilias. TH233
 Tremblay, Louis. TH077
 Tremolada, Paolo. TU188, WE014
 Treu, Gabriele. TH044
 Trevizani, Tailisi. MO343, WE254
 Triantis, Theodoros. 592, TH181, TH182
 Triebkorn, Rita. 513, MO038, TU175, TU179, TU329, WE015, WE080
 Trimborn, Michael. TH292
 Trindade, Tito. WE312
 Trine, Lisandra. WE429
 Trofimov, Aleksei. 531
 Trombini, Chiara. WE102
 Trotta, Francesco. 382
 Trotter, Benjamin. 342
 Trumble, John. 450
 Tryland, Morten. 28
 Trznadel, Maciej. 454, WE104, WEPC01
 Tsang, Yiu Yuen. TU167
 Tsapakis, Manolis. 308, WE204
 Tsarpali, Vasiliki. MO065
 Tsiola, Anastasia. 308
 Tsirlin, Dina. TU354
 Tsoy, Natalya. TH314
 Tsyusko, Olga. MO404
 Tubaro, Aurelia. 654
 Tuerk, Jochen. 240
 Turconi, Roberto. 565
 Turek, Jan. WE090
 Turgut, Cafer. TU369
 Turies, Cyril. WE361
 Turja, Raisa. MO004, MO017, MO029
 Turner, Andrew. TH178, WE291
 Turner, David. 314
 Turner, Simon. TU166
 Tussupova, Kamshat. WE099
 Tüting, Wiebke. 3, MO146, TU265
 Tutundjian, Renaud. 232
 Tvarijonavičiute, Asta. TH015
 Tveiten, Lise. MO380
 Twertek, Michael. WE092
 Tyle, Karel Henrik. WE072
 Tyler, Charles. 392, 454, 93, MO420, MO424, WE104
 Tysklind, Mats. 51, MO302
 Tzschoppe, Luisa. 92, TH131
 Tørnes, John. MO034
 Tøttrup, Anders. 211

U

Ubay Çokgör, Emine. MO291
 Ubbiali, Stefano. MO220, TH235
 Uchanov, Pavel. 533
 Uchida, Masashi. MO173
 Udebuani, Angela. MO216, TU065, TU074
 Udikovic-Kolic, Nikolina. 79
 Ugarte, Sergio. TU234
 Ugarte-Ruiz, María. WE106
 Uhlik, Ondrej. 188
 Ulčar, Jan. TU142
 Ullberg, Malin. TH097

Ullrich, Christian. 555
 Ullucci, Sonia. MO145, TH233, TH235
 Ulrich, Uta. 3
 Umbach, Simon. TU182
 Umbuzeiro, Gisela. MO135, MO196, MO416, TU114, TU317, TU338, WE190
 Unadike, Chioma. TU394
 Undeman, Emma. 332, 585
 Ungherese, Giuseppe. 236
 Unrine, Jason. MO404
 Úr, Györgyi. WE056
 Urbanczyk, Michal. MO372
 Uricchio, Vito Felice. TU169, TU242, TU243
 Urien, Alice. TU208
 Urien, Nastassia. TU064, TU208
 Urieta, José Santiago. TU350
 Urionabarrenetxea, Erik. MO403, TU143
 Url, Bernhard. Keynote Monday
 Ursini, Cinzia. MO418
 Usese, Amii. TU071
 Usobiaga, Aresatz. WE287
 Ussery, Erin. TH317, WE016, WE017, WE031
 Utermann, Jens. 96
 Uzyczac, Joanna. TH257
 Uzyczak, Joanna. TH260

V

Vacchi, Francine. WE190
 Vad, Johanne. 103
 Vaiopoulou, Eleni. 67, MO434, MO438, TU257
 Vaj, Claudia. MO139, MO140, TH233, WE162, WE219
 Val, Jonatan. MO040, TU348, TU350
 Valantine, Emma. MO215
 Valbonesi, Paola. TH012
 Valcaldá, Andrea. 116
 Valcárcel, Yolanda. MO311
 Valdehita, Ana. TH092, TU089
 Valdés, María. MO311
 Vale, Carlos. TU129
 Valente, Luisa. WE329
 Valero, Alicia. 318
 Valero, Fernando. MO309
 Valimaña-Traverso, Jesús. WE010
 Väitalo, Pia. 572
 Vallero, D.. MO098
 Vallon, Martin. MO077
 Vallotton, Nathalie. 265
 Valmier, Marine. TH153
 Valsami-Jones, Eugenia. WE324
 Valsecchi, Sara. MO296, MO446, TH107, TU342, WE075, WE253
 Valverde-Garcia, Pablo. 497
 Van Acker, Karel. TU225, TU240, WE226, WE260
 Van Ael, Evy. MO376
 Van Aerle, Ronny. WE298, WEPC01
 Van Alst, Nikki. 282, MO315, TU160, TU170, TU409, WE148
 Van Assche, Frank. WE340
 Van Aswegen, Jan. MO084
 Van Belleghem, Frank. WEPC14
 Van Bergen, Hans. WE388
 Van Bodegom, Peter. 364
 Van Cruchten, Steven. MO259, TH067
 Van Dam, Rick. 305
 Van de Briel, Rob. TU091
 Van de Meent, Dik. 358, TH089, TH286, WE392
 Van de Merwe, Jason. MO161, MO182
 Van de Poel, Ibo. TH227
 Van de Waart, Beppy. MO228, MO229
 Van de Walle, Jorden. WEPC03
 Van de Zande, Jan. MO149, MO150, MO151, TH275
 Van den Berg, Hans. 95, MO181
 Van den Berg, Martin. 12
 Van den Berg, Willie. 629
 Van den Brand, Tessa. TU228
 Van den Brink, Nico. 95, MO069, MO181, WEPC14
 Van den Brink, Paul. 268, 301, 357, 362, 363, 466, 550, TU373, WE204
 Van den Oetelaar, Daphne. MO228, MO229
 Van der Brugge, Rutger. WEPC10
 Van der Grinten, Esther. WE267
 Van der Heijden, Stephan. MO203
 Van der Hoek, Jan Peter. 360
 Van der Horst, C. MO282, MO295, MOPC25, TU362, TU371
 Van der Linden, Ann. TU216
 Van der Linden, Sander. TH048, TH050, TH051
 Van der Linden, Ton. 3
 Van der Meer, Jan Roelof. TU283
 Van der Meer, Tom. WE178
 Van der Meer, Walter. 370
 Van der Oost, Ron. 240, 476, 628, 629, TH208
 Van der Pouw Kraan, Dennis. TH207
 Van der Schyff, Veronica. TH006, TU068, TU125
 Van der Stede, Yves. 657
 Van der Steen, Jozef. 328
 Van der Steen, Jozef. TU047
 Van der Werf, Wopke. TU379
 Van der Zalm, Esther. TH086
 Van der Zande, Meike. MO397
 Van Dijk, Joanke. WE022
 Van Drongelen, Arjan. WE267
 Van Drooge, Barend. TH074, WE241
 Van Elk, Merel. TU091, WE022
 Van Elsacker, Paul. 432
 Van Franeker, Jan. MO319
 Van Gestel, C.A.M.. 273, 40, 557, MO396, TH001, TU085, TU144, WE332, WEPC14
 Van Gils, Jos. 300, 345, 356, 357, 358, TH286
 Van Ginkel, Kees. TU286
 Van Ginneken, Marjolein. TU084
 Van Hall, Bart. WE179
 Van Haren, Claire. 557
 Van Hees, May. WEPC03
 Van Hees, Patrick. MO433
 Van Holderbeke, Mirja. 226
 Van Langenhove, Herman. 614
 Van Leeuwen, Lonke. 322
 Van Leuken, Jeroen. WE267
 Van linden, Veerle. 135
 Van Loon, Cornelis. 393
 Van Niekerk, Gerhard. TU082, WE337, WE346
 Van Nuijs, Alexander. TH067
 Van Oorschot, Yvonne. 632
 Van Oyen, Albert. MO319, TH028, TH029
 Van Roo, Romi. 367
 Van Rooyen, Divan. MO400
 Van Spanning, Rob. TU267, TU285
 Van Sprang, Patrick. 214, 641, MO365, MO366, WE340
 Van Stappen, Florence. MO095

Van Straalen, Nico. 414, WE283, WE392
 Van Straalen, Nico M. WEPC14
 Van Velde, Pleun. MO149, MO151
 Van Vliet, Peter. TH275
 Van Vuren, Johan. TU013
 Van Well, Lisa. WEPC10
 Van Wezel, Annemarie. 218, 237, 24, 300, 360, 573, TH286, TU228
 Van Zelm, Rosalie. 14, 73, MO108, WE181
 Vanden Bosch, An. MO376
 Vandenberg, Bert. TU077
 Vander Putten, Erika. MO109
 Vander Straeten, Michel. TU347
 Vanerme, Guido. WE418
 Vanhaecke, Lynn. 614
 Vanninen, Paula. MO034
 Vannoni, Marta. TH257
 Vannuccini, Maria Luisa. WE245
 Vannucci-Silva, Monizze. MO416, TU338
 Vanryckeghem, Francis. 614
 Vanthournout, Sofie. 478
 Vantini, Andrea. TH194
 Vardakas, Leonidas. 424
 Vargas Gonzalez, Marcial. 377, WEPC27
 Varo, Inmaculada. TH013, TU130
 Varotto, Paolo. TU024
 Varpe, Øystein. 348
 Varriale, Fabio. TH178
 Vasickova, Jana. MO121, TU420, TU421
 Vašíčková, Jana. TU146
 Vasile, Massimiliano. 440
 Vassura, Ivano. TH304
 Vatanen, Saija. WE257
 Vatland Krøvel, Anne. TU163
 Vatnick, Itzick. TH068
 Vazquez, Socorro. TH310, TH311, TH312, WE225
 Vázquez-Rowe, Ian. 376, MO107
 Vazzoler, Marina. WE075
 Vebrosky, Emily. TU122, TU427, WE207
 Vecerkova, Jaroslava. 594
 Vedal, Jens. TH204
 Vedolin, Marcela. MO343, WE254
 Vedrenne, Jacky. 202, TH149
 Veen, Ike. 261, 323
 Vega, Giovanna Catalina. TU230
 Vehniäinen, Eeva-Riikka. 110, MO236, MO237
 Veiteberg Braaten, Hans Fredrik. MO350, TU304
 Veith, Michael. 209
 Velarde, Roser. MO075
 Veloutsou, Sofia. MO280
 Venables, Barney. 104, 107, WE031
 Venâncio, Cátia. TH218, WE312, WE321, WE420
 Vendemiati, Josiane. WE190
 Vendrell, Lidia. WE235
 Venel, Zelig. MO330
 Venhuis, Bastiaan. WE022, WE267
 Venier, Marta. TU369
 Venkatapathy, Raghu. 596
 Venohr, Markus. 359
 Venti, Francesco. TU012
 Venturelli, Maria. TH246
 Vera, Ruben. MO273
 Vera-Escalona, Ivan. WEPC05
 Verán-Leigh, Daniel. MO107
 Verani, Marco. 287
 Verbruggen, Bas. 392
 Verbruggen, Eric. 432, TH113
 Verbueken, Evy. MO259

Vercaigne, Isabelle. 214
 Vercalsteren, An. MO109
 Vercoulen, Pim. 73
 Verderame, Mariailaria. WE252
 Verdonck, Frederik. MO376, TH238
 Verdonschot, Piet. TH208, WE178, WE179
 Verdonschot, Ralf. 362, 363
 Vergani, Lorenzo. 188, TU245, TU247
 Vergauwen, Lucia. MO256, MO259, TH067
 Verginelli, Iason. 193
 Verhaegen, Steven. TH298
 Verhaegen, Yves. MO434
 Verheyen, Julie. 367
 Verhoeven, Julia. 322
 Verloof, Didier. 657
 Verma, Nitin. WE003
 Vermeirssen, Etienne. 240, 365, TH217, TH219
 Verney, Vincent. TU164, TU192
 Vernon, Emily. TU108
 Verones, Francesca. 131
 Verreault, Jonathan. MO284
 Verro, Roberto. MO139, MO140
 Verschoor, Anja. 160, TH083
 Versteeg, Donald. 267, TH283, TU006
 Verster, Carina. TU156
 Verstraelen, Sandra. TH080
 Vertova, Alberto. TH315
 Verweij, Rudo. 40
 Veschetti, Enrico. TU316
 Viaene, Karel. MO365, MO366, WE340
 Viana-Silva, Flavia. TU052
 Vianello, Alvise. MO315, TU160, TU409, WE148
 Vianello, Fabio. WE121
 Viant, Mark. 475, WE290, WE292
 Viarengo, Aldo. 460, 526
 Viberg, Henrik. 412
 Vichi, Susanna. TH180
 Vidal, Alice. MO240, TH110, TH111
 Vidal-linan, Leticia. 650
 Vidal-Liñán, Leticia. TH222
 Vieira, Inês. MO055
 Vieira, Luís. TU117
 Vieira, Marisa. 194, 318
 Vierke, Lena. TH114, TU345, WE071
 Vighi, Marco. TU161, TU162, WE204, WE333, WE344, WE349
 Vignardi, Caroline. 351
 Vignati, Davide. MO160, TH265, WE182, WE386, WE387
 Vignet, Caroline. 231
 Vignet, Caroline. TU186
 Viguiaud, Mégane. 523
 Vija, Heiki. TU120
 Vijayan, Jayavignesh. TH215, TH216
 Vijver, Martina. 364, 641, TH010, TU180, WE414, WEPC14
 Vila, Joaquim. 191
 Vila-Costa, Maria. 139
 Vila-Pouca, Ana. WE107
 Vilardi, Giorgio. 445, WE041
 Villa, Sara. TU334
 Villalba, Gara. 258, TH313
 Villalobos, Sergio. MO434
 Villamar Bouza, Laura. MO057, MO153
 Villanger, Gro. 28
 Villarini, Milena. 287
 Villas Boas, Luiz. MO079
 Villena, Isabelle. 515
 Villeneuve, Daniel. 241, 598, 599, 660, MO159, MO193, MO256, MO259, TH034
 Vinall, Stephen. TU045
 Viñas, Lucía. TH103
 Vinas, Natalia. 660, TH288, TU209
 Vince, Erwann. WE114
 Vincent, Emma. TH112
 Vincent, Helen. 208
 Vink, Jos P.M.. 641
 Violin, Christy. TU014
 Vione, Davide. WE002, WE066
 Viot, Jean-François. TH228
 Viotti, Paolo. WE424
 Viric Gasparic, Helena. 560
 Virno Lamberti, Claudia. MO026, WE341
 Virta, Marko. WE101, WE115
 Vitale, Chiara Maria. MO223, MO435
 Vitale, Matteo. TU128
 Vitale, Rock. TH255, WE122
 Vitiello, Valentina. WE194
 Vitkus, Rimantas. WE322
 Vivian, Deborah. WE362
 Vivien, Régis. WE187
 Vlaardingen, Peter. WE022, WE267
 Vlachogianni, Thomie. 418
 Vlaeminck, Karel. MO365, MO366
 Vlastos, Dimitris. WE306
 Vlkova, Denisa. TU251, TU252, TU262
 Vo Duy, Sung. 574, TH095
 Voegelin, Andreas. 98, MO422
 Vogelsang, Christian. 222, 42
 Vogler, Bernadette. 365
 Vogli, Luciano. TU233
 Vogs, Carolina. TH112
 Vogt, Roland. TH218
 Volanti, Mirco. TH307
 Volat, Bernadette. TU030
 Volchek, Konstantin. TH095
 Voltaire, Olivier. TU164
 Völker, Carolin. 647, TH032
 Volker, Doris. MO409, TH086, TH091, TH093
 Vollertsen, Jes. 282, MO315, TU160, TU170, TU409, WE148
 Vollmer, Tobias. TH117, TU042
 Vollstedt, Bente. WEPC10
 Volpe, Giulia. 653
 Volpe, Valerio. WE275
 Volpi, Elisabetta. WE081
 Volpi Ghirardini, Annamaria. 325, TU090
 Volz, Petra. 2
 Volz, Sina. 489
 Vom Berg, Colette. 472, MO271, TU333
 Von Blanckenhagen, Felix. MO050
 Von der Kammer, Frank. 100, MO423, TH091
 Von der Ohe, Peter. 206
 Von Osten, Jaime. MO340
 Von Stackelberg, Katherine. 94, MO368
 Vondráček, Jan. 631
 Vonk, J Arie. WE195
 Vonwyl, Evelyne. 595, TH166
 Vornanen, Matti. 110
 Voss, Kristofor. TU014
 Vossen, Laura. TU327
 Vost, Emma. MO337
 Voua Otomo, Patricks. MO209
 Vourka, Aikaterini. 424
 Vrana, Branislav. TH209
 Vrvic, Miroslav. TU273
 Vuailat, Marie. TH228
 Vughs, Dennis. MO287
 Vukic, Jovan. TU086
 Vulliet, Emmanuelle. 232, TH110

W

Waaikers-van der Loop, Susanne. WE267
 Waara, Sylvia. TH126
 Waclavek, Stanisław. TU251
 Wadhia, Kirit. MO022
 Waeterschoot, Hugo. TU347
 Wagelmans, Marlea. TH157, WE098, WEPC09
 Wagner, Bettina. 301
 Wagner, Charlotte. 578
 Wagner, Martin. 160, 545, 647, TU182, TU183
 Wagner, Stephan. 159, 280
 Wagner, Thomas. WE133
 Wahman, Rofida. WE149
 Waichman, Andrea. MO136
 Walch, Helene. 100
 Walden, Daniel. TU412
 Waldron, Susan. TU157
 Walin, Laura. WEPC08
 Walker, Allison. WE242
 Walker, Christie. WEPC26
 Walker, Holly. 523
 Walker, Kelsey-Jean. 126
 Walker, Lee. MO070, TU035
 Walker, Samantha. MO385
 Wallis, Lindsay. 94, MO368
 Walter-Simonnet, Anne-Véronique. 276
 Walters, Chavon. MOPC25
 Waluda, Claire. TH014
 Walz, Karl-Heinz. 572
 Wang, Haotian. 65
 Wang, Jie. MO430, WE428
 Wang, Lina. 659, TH056, TH057
 Wang, Magnus. 59, 90, MO042, MO088, TU058, TU059, TU060, TU202
 Wang, Rong-Lin. TU003
 Wang, Si-Yi. TU014
 Wang, Thanh. WE126
 Wang, Xianyu. TU408
 Wang, Xin. TH192
 Wang, Xinhong. TU305
 Wang, Yan. 591
 Wang, Zijian. TH035
 Wania, Frank. 337, 346, MOPC23, TU413
 Wannaz, Cedric. TH290, TU406
 Wanzenböck, Josef. TH218
 Wargenau, Elke. 96
 Warn, Gordon. WE221
 Warne, Michael. 305, 307, TH295
 Warnecke, Dietmar. WE375
 Warner, Nicholas. 348
 Waskiewicz, Krzysztof. TU234
 Wassenaar, Pim. 322, TH113, TU093, WE267
 Wassenberg, Jacoba. TUPC08
 Watanabe, Hajime. 293
 Watanabe, Haruna. TU067
 Watanabe, Karen. TU209
 Watanabe, Kimiyo. WE004
 Waters, Michael. TH160
 Wathelet, Alain. TH228
 Webb, Sarah. 2
 Weber, Annkatrin. TU182
 Weber, Brigitte. WE375
 Weber, Denis. MO124
 Weber, Elena. WE390
 Weber, Lynn. 50, MO179
 Webster, Glenys. TU369
 Wedebye, Eva. WE072
 Wee, June. TH134, TH142
 Weeks, Jason. 31
 Weeks, John. TH042
 Weeks Santos, Shannon. MOPC06
 Wege, Franziska. TH154
 Wege, Kristina. MO373
 Wegeberg, Susse. 47, MO016
 Wehrhahn, Maren. MO325
 Weidauer, Cindy. 51
 Weidema, Bo. 566, WEPC28
 Weidung, Mara. TH005
 Weig, Alfons. 342
 Weigt, Henning. WE390
 Weihe, Pal. 576
 Weijs, Liesbeth. 12
 Weil, Carolin. TH182
 Weil, Marcel. TH308, TU215, WE230
 Weil, Mirco. 561
 Weinhold, Kay. 285
 Weinstein, John. MO326, MOPC10
 Weir, Scott. 26, MO044, MO051
 Weiss, Jana. 323
 Weiss, Ruben. 192
 Weitere, Markus. TU027
 Welch, Megan. 161
 Welsh, David. WE184
 Weltens, Reinhilde. TH080, WE418
 Weltje, Lennart. 25, 495, 62, 662
 Wen, Wu. 65
 Weng, Zhehan. TU214
 Wenger, Delphine. 338
 Wenning, Richard. 43, TU380, TU382
 Wepener, Victor. MO400, TU013, TU337, WE337
 Werner, Annalena. MO188
 Werner, Inge. 302, 303, 458, MO266, TH217, TH219, TU197, WE289
 Wessman-Jääskeläinen, Helena. 439
 West, Robert. TU275
 Westberg, Emelie. 361, TH021
 Westgate, John. TU360
 Westhues, Stefan. 259
 Westlund, Paul. WE089
 Westphal-Settele, Kathi. WE024
 Westrick, Judy. MO283
 Wetmore, Barbara. 665
 Wetzell, Dana. MO234
 Wewers, Francois. TU062, TU076, WE094
 Weyers, Arnd. TH272, TH273
 Weyman, Gabriel. 329, 494, 558, MO358, TU044, TU053, WE279
 Whale, Graham. 251, 583, TU287, TU288, TU314
 Wheeler, James R.. 497, 600
 Wheeler, Korin. 41
 Whelan, Mick. 598, 602
 White, J. 109
 White, Joseph. 5
 Whitehead, Andrew. 353
 Whitehead, Paul. 583
 Whitehouse, Paul. MO215
 Whitlock, Sophia. 205, MO073
 Whittaker, Mark. TU061
 Whyte, Andrew. TH233
 Wichman, Natalie. 425
 Wicht, Anna. WEPC05
 Wick, Peter. 74
 Wieck, Stefanie. 36
 Wiedensohler, Alfred. 285
 Wiegand, Claudia. 593
 Wielinski, Jonas. 98
 Wiemann, Astrid. 373, 433, 561, WE057
 Wieringa, Nienke. 126, WE179

Wigger, Henning. TH083
Wijaya, Leonard. 391
Wikström, Anna. WEPC11
Wilbrand, Nadine. WE193
Wilbuer, Jennifer. WE070
Wildi, Michel. TU197
Wilhelm, Sabrina. WE080
Wilkinson, John. 394, 397, TH297, WE001, WE005, WE135
Willett, Catherine. 598, 602
Williams, Adrian. WE234
Williams, Antony. 239
Williams, Dawn. MO202
Williams, Richard. WE354
Williams, Tim. 476
Williams, W. Martin. TH233
Williamson, Cory. 634
Williamson, Phillip. WE234
Willmore, William. TH038, TH198, TH199
Wilson, Andrew. 440
Wilson, Benjamin. TH245
Wilson, Iain. TU198, TU199, TU200, WE147
Wilson, Patrick. WE156
Wilson, Peter. 170, MO165
Wilson, Robert. WE298
Wilson McNeal, Alice. 425
Winberg, Svante. TU327
Winberg von Friesen, Lisa. TH031
Winchell, Michael. 62, MO137
Windell, Dylan. MO424
Windfeld, Ronja. 666
Winkler, Anika. WE279
Winter, Matthew. MO424, TH320
Wipfler, Louise. TH275
Wischerhoff, Erik. TU151
Wiseman, Clare. TU367
Witt, Gesine. MO429
Witt, Johannes. MO119
Witte, Klaudia. 37, MO407, TU335
Witters, Hilda. 588, MO256
Wittmer, Irene. TUPC05
Witton, Joanna. 558
Wittwer, Torben. MO222
Wogram, Joern. 402, MO225, MO226
Wojciechowski, Aurelie. WE265, WEPC25
Wolf, Christian. 194, MO066, TU050
Wolf, Douglas. TU249
Wolf, Tom. 1
Wollmann, Claudia. 61
Wolmarans, Corrie. TU082, WE337, WE346
Wondrousch, Dominik. MO171, WEPC18
Wong, Bob. 201, TU324, TU331
Wong, Cynthia. WE167
Wongsoredjo, Samor. 223
Wood, Rachel. 523
Wood, Richard. MO111
Woodburn, Kent. 9
Worms, Isabelle. MOPC28
Wouters, Peter. TU383
Wright, Demitria. TH195
Wright, Stephanie. 155
Wrona, Frederick. TU110, TU142
Wu, Chen-Chou. TU391, TU414
Wu, Jane. 652
Wu, Junfang. 454

Wu, Liu-Hong. WE128
Wu, Yan. 10
Wu, Yen Ting. WE142
Wuester, Simon. 458
Wulff, Sascha. TH112
Wünnemann, Hannah. MO230
Wurm, Karl. 513
Wynne, Brian. TU384
Wypkema, Aike. TH314

X

Xia, Lingzi. MO205
Xia, Xinghui. 65, MO205, WE180
Xia, Zhe. MO027, MO251
Xiao, Hang. TU403
Xie, Li. TH204, TH318, TH319, TH321, WE296, WE334
Xie, Shan-Yi. TU414
Xie, Shanyi. TU396
Xiong, Songsong. WE043
Xiong, Xinyue. MO205
Xu, Elvis. 162
Xu, Genbo. 166
Xu, Kehui. 10
Xu, Kun. TU331
Xu, Lei. TH230
Xu, Wei. TU122, TU427, WE207
Xu, Yiping. TH035

Y

Yabe, John. WE246
Yablonsky, Olga. 531
Yaghmaei, Emad. TH227
Yallop, Marian. WE316
Yamada, Naofumi. TU159
Yamada, Ohri. TU375
Yamada, Takashi. MO164, MO192
Yamaguchi, Akemi. MO173
Yamamoto, Hiroshi. MO164, MO192, TU067
Yamane, Masayuki. TU284
Yamazaki, Kunihiko. TH046
Yang, Congqiao. 334, TU354, TU369
Yang, Jiangua. TU032
Yang, Jie. TH264
Yang, Yi. TU016
Yang, Ying-Fei. MO354, TH205, TU020, TU311, TU398
Yao, Chunhe. TU407
Yao, Yuan. TH095
Yargeau, Viviane. WE089, WE416
Yasuda, Takamasa. TU159
Yau, Jason. MO012
Ye, Tao. WE297
Ye, Xiayan. TU321
Yen-Potin, Frances. MO369
Yeung, Katie Wan Yee. MO012, MO013
Yeung, Leo. 640, 649, WE126
Yi, Hui. TU403
Yin, Tingru. TU016
Yin, Xiao. 509
Ying, Guang Guo. TU373
Yohannes, Yared. WE246
Yoon, Seokjoo. TU134
Yoshida, Olga. MO388

You, Jing. MO204, WE186
You, Luhua. 467, MO308
Young, Graham. 354, MO368, TU212
Young, Steven. 318
Younghun, Choi. WE355
Yousef, Issam. WEPC21
Yu, Liu. WE251, WE255
Yuan, Bo. 8
Yuan, Xiu. MO154
Yüksek, Gülten. 140
Yukse, Gulden. MO291
Yumvihoze, Emmanuel. MO344
Yung, Mana. MO012, WE311
Yusseppone, Maria. WE345
Yusseppone, María Soledad. TU119

Z

Zaaraoui, Nisrine Carmen. TH228
Zacchi, Flávia. MO064, TU127
Zaffagnini, Valeria. TH233, WE162
Zahn, Daniel. 141, 371, TH101
Zahorszki, Sieglinde. WE006
Zajac, Rachel. WE425
Zaldibar, Beñat. MO009, TU070
Zalouk-Vergnoux, Aurore. TU195
Zaltauskaite, Jurate. WE143, WE348, WE350
Zamagni, Alessandra. 562, TU237
Zamaratskaia, Galia. MO247
Zampetti, E.. TU410
Zampetti, Emiliano. MO335
Zampetti, Giorgio. 421
Zampori, Luca. 194
Zanardi-Lamardo, Eliete. MO018
Zanardini, Elisabetta. 188, TU245, TU247, TU366
Zanchi, Laura. 622
Zani, Claudia. TU353
Zaninetta, Luciano. TU259
Zanini, Gabriele. 285
Zanon, Francesca. WE075
Zarfl, Christiane. 283, TH017, TU173, TU411, WE134
Zaric, Nenad. TU368
Zarini, Daniele. MO163
Zattini, Giorgio. TH304
Zańska-Radziwiłł, Monika. WE318
Zelenyuk, Alla. 289, TU400
Zelić, Luca. TH300
Zeng, Eddy. TU391, TU396, TU414
Zeng, Yan-Hong. TU276, WE251
Zenker, Armin. MO248, WE378
Zerbini, Ilaria. TU353
Zeri, Christina. 308
Zerrad, Myriam. TH090
Zervou, Sevasti-Kiriaki. 592, TH181
Zetterlund, Miriam. WEPC10
Zetzmann, Marion. TUPC11
Zeumer, Richard. 37, 39
Zhai, Yawei. MO205
Zhai, Yujia. WE414
Zhang, Gan. TU408
Zhang, Han. WE011
Zhang, Hui. MO439
Zhang, Jing-jing. TU403
Zhang, Liang. 77, 82, MO290
Zhang, Lihong. 520, 521

Zhang, Lin. WE062
Zhang, Lulu. 273, TU085
Zhang, Panwei. WE130, WE139
Zhang, Qianqian. TH150
Zhang, Shangwei. TU253
Zhang, Xianming. TU360
Zhang, Xiaochun. 578, TU032
Zhang, Xiaojin. MO389
Zhang, Xiaotian. WE180
Zhang, Xiaowei. 598, 599
Zhang, Ya-Qi. TH152, TU094
Zhang, Yan. 107
Zhang, Yang. 82
Zhang, Yaxin. TH096
Zhang, Yi Min. WE313, WE315
Zhang, Zhen. WE045
Zhang, Zifeng. TH290
Zhao, Fangyuan. 585
Zheng, Jie. TU403
Zheng, Liping. TH144
Zhou, Guang-Jie. MO012
Zhou, Huaidong. WE130
Zhou, Jiarui. WE290
Zhou, Jun Feng. TU391
Zhou, Junying. TH121
Zhou, Yan. TH144
Zhou, Yanyue. TH029
Zhou, Zhou. TH264
Zhu, Fengxiao. WE151
Zhu, Yong-Guan. 518
Zhu, Zewen. WE043
Ziajahromi, Shima. 646
Ziarrusta, Haizea. 389, MOPC20, TU133, WE287
Zicot, Arnaud. TU045
Zidar, Primoz. TU184
Ziegler, Friederike. WEPC25
Ziegler, Michael. TU329, WE080
Ziegler, Susan. MOPC26
Zijp, Michiel. 207, 358, TH286, TU093, WE267
Zikova, Andrea. TH017
Zilles, Victoria. 371, MOPC09
Zillgens, Birgit. 2
Zimmer, Elke. 153, 302, MO357, TU213
Zimmer, Karin. TH298
Zimmer, Malte. TU346
Zimmermann, Lisa. 647
Zingari, Laura. TU316
Ziółkowska, Elżbieta. 91
Zivkovic, Igor. 123
Zlabek, Vladimir. MO247, WE090
Zoeter Vanpoucke, Mechtild. TU257
Zoh, Kyung-Duk. WE131
Zonja, Bozo. 139, 22
Zorita, Izaskun. MO007
Zubrod, Jochen. TU023, TU028, TUPC01, WE105, WE176
Zuccarello, Pietro. TH180
Zucchi, Sara. MO163
Zuloaga, Olatz. 389, MOPC20, TU133, WE287
Zumkier, Ulrich. TU050
Zupanic, Anze. 415, 472, 600, WE307
Zwart, Nick. 632
Zweers, Patrick. 322
Zwiener, Christian. 395, TU264, WE134

POLICIES

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Professional behaviour and integrity are also expected of every attendee (members and non-members alike) of SETAC meetings, workshops and activities.

Each member and all persons participating in SETAC meetings and activities are bound by this Code of Ethics and should:

- Conduct themselves responsibly, objectively, lawfully and in a non-discriminatory manner.
- Ensure that presentations during Society-sponsored events and other communications are restricted to, and based on scientific principles and made in a respectful manner.
- Respect the rights, interests, and contributions of professional colleagues.
- Respect intellectual property and provide appropriate attribution for all intellectual property arising elsewhere.
- Declare and avoid conflicts of interest.
- Not knowingly make false or misleading statement(s), or engage in activities that could be viewed as defamatory about a professional colleague or an organisation.
- Recognise and respect confidentiality while being honest and forthcoming in all issues of public record.
- Objectively and clearly communicate scientific methods, understanding and knowledge in a professional manner.
- Conduct research and related activities so as to avoid or minimise adverse environmental effects of that research, and ensure compliance with legal requirements for protection of researchers, human subjects, and research organisms and systems.

Cell Phones

Out of courtesy to our speakers and attendees, we require that all cell phones are turned off during sessions and meetings.

SETAC Forums

The aim of the forums is to initiate scientific discussions. The forums are moderated to preserve the spirit of an open, interactive, courteous, polite and respectful discussion. If misuse occurs, please contact the SETAC Europe staff.

Media Disclaimer

The Society of Environmental Toxicology and Chemistry – Europe (SETAC Europe) is hosting its 28th annual meeting from 13–17 May 2018 in Rome, Italy. With the overarching theme being "Responsible and Innovative Research and Environmental Quality", experts from academia, government and business will present the latest research about: Reducing and regulating the use of chemicals in the environment, Remediating soil, air and water pollution, Proposing the use of more sustainable chemicals.

They will present an array of environmental and human health issues and will be available to answer questions from journalists: Presentations will cover scientific topics such as pesticides, chemical risk assessment, microplastics, nanotechnology, personal care products and pharmaceuticals in the environment, endocrine disruptors, metals in the environment, environmental disasters (such as oil spills), alternatives to animal testing, science communication and many more.

How can SETAC serve you as a media representative?

- By keeping you posted through updated press releases and news updates
- By providing you with photos, videos or other supporting files when available
- By helping you arrange interviews with SETAC officers, members and presenters before or at the meeting
- In return, we expect you to:
- Wear your media badge, and identify yourself as a member of the press when you attend presentations or talk with any group or individual
- Obtain permission from the Executive Director of SETAC Europe, Bart Bosveld, and from any of the presenters or meeting registrants before you film, tape or otherwise record any of their activity or interview at this event
- Respect a presenter's or meeting participant's decision to speak with you

Any media representative who sells, markets or represents a company for purposes of obtaining advertising or subscriptions from any exhibitor or registrant will immediately forfeit press credentials for this and subsequent meetings.

Please note that conference attendees represent researchers from a variety of disciplines and sectors; The answers reflect the views of the presenter but do not imply endorsement of SETAC.

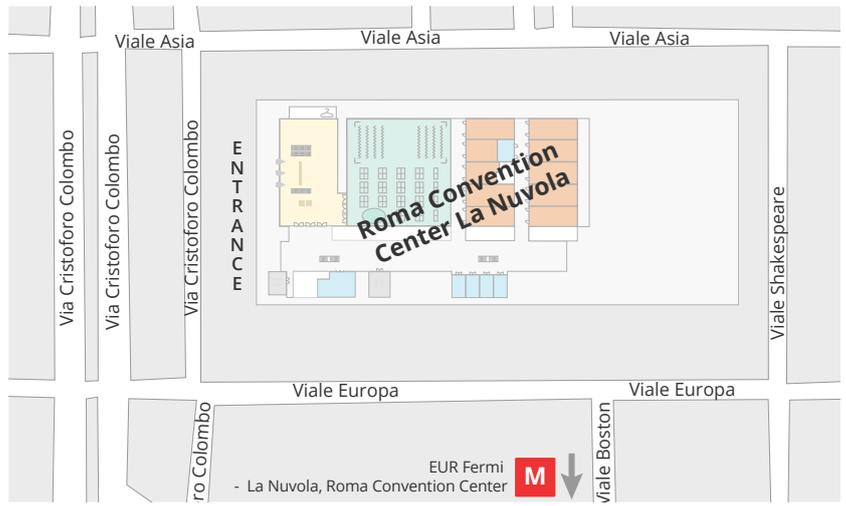
For more information on SETAC go to www.setac.org

Photo and Video Release

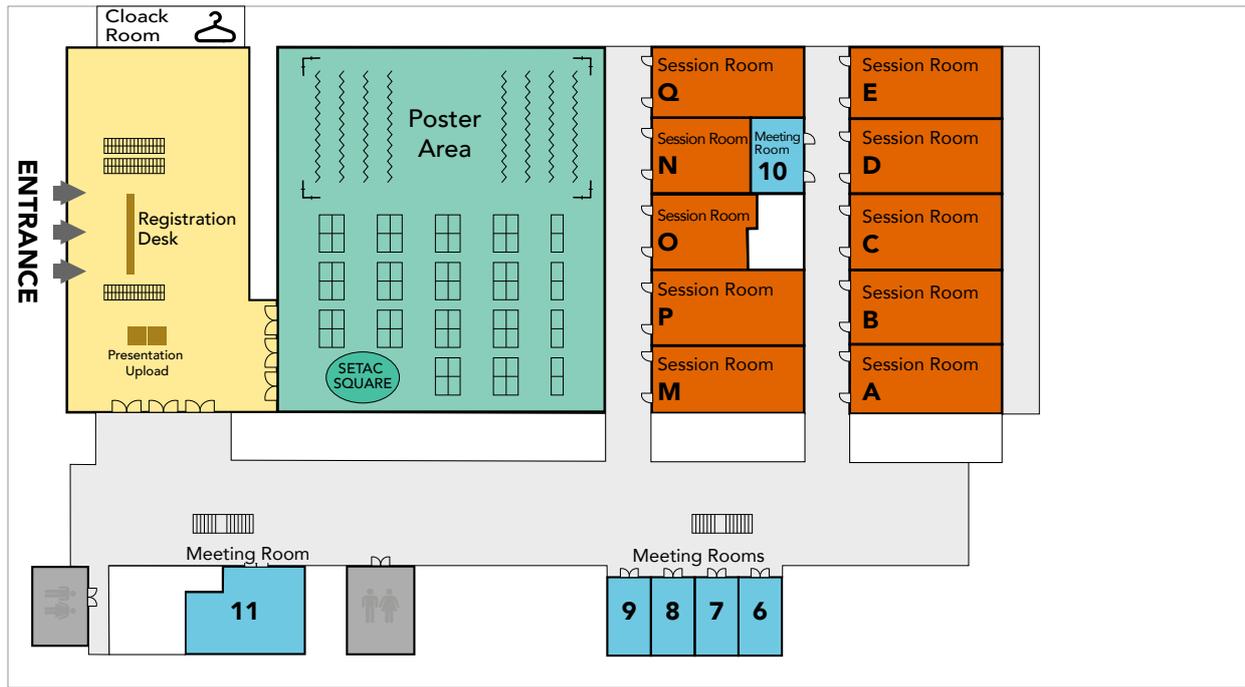
Photographs will be taken at the SETAC Europe 28th Annual Meeting. By registering for this meeting, you agree to allow SETAC to use your photo in any SETAC-related publication or website and video shots in SETAC communication tools.

FLOOR PLAN

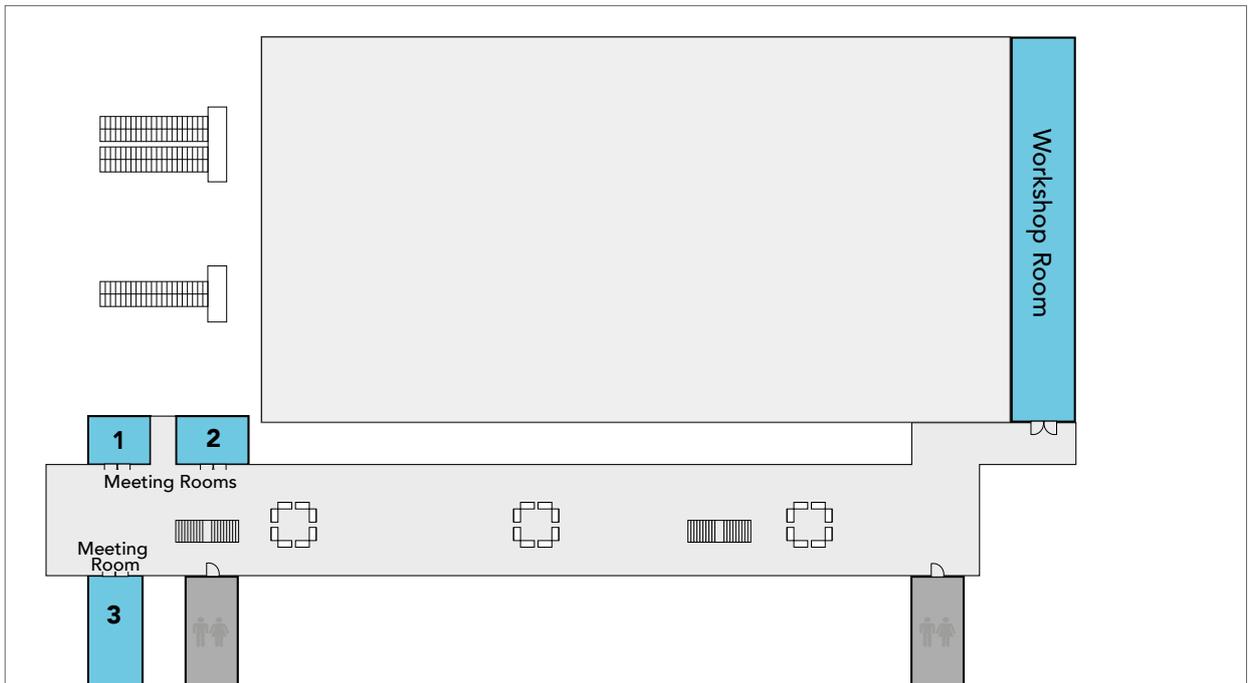
- Registration Area
- Exhibition Hall
- Session Rooms
- Meeting Rooms



Ground Floor



1st Floor





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