

EBS 2019 Programme

Florence, 18-21 February 2019

Monday, February 18

11:00-13:30	Registration				
	Auditorium				
13:30-13:45	Opening (M. Minunni, F. Baldini) Welcome from Prof. L. Dei, Rector of the University of Florence				
13:45-14:30	PL I	<u>W. Knoll</u>	Bio-Sensing: Optical or by Electronics?	(Chair: F. Lisdat)	
	Auditorium			Room 103	
	<i>Materials, methods and devices for biosensing I</i> (Chair: P. Skladal)			<i>Biosensing for healthcare I</i> (Chair: I. Kurochkin)	
14:50-15:20	KN1	<u>E. Climent</u> , W. Wan, M. Weller, K. Rurack	Novel specific bio-gated hybrid materials and its integration into versatile platforms for advanced sensing applications	KN2	<u>G. Jobst</u> Biosensors in real settings
15:20-15:40	OC1	<u>M. Riedel</u> , F. Lisdat	Light-directed wiring of PQQ glucose dehydrogenase to inverse opal TiO ₂ architectures	OC2	G. Breveglieri, E. D'Aversa, P. Pellegatti, G. Guerra, L.C. Cosenza, A. Finotti, R. Gambari, <u>M. Borqatti</u> A novel and efficient protocol for Surface Plasmon Resonance based detection of four β -thalassemia point mutations in blood samples and salivary swabs
15:40-16:00	OC3	<u>S. Dantism</u> , D. Röhlen, T. Wagner, P. Wagner, M.J. Schöning	Monitoring of the metabolic activity of different bacteria by means of a differential LAPS	OC4	F. Teng, <u>M. Libera</u> Miniature biosensors for multiplexed infection diagnostics
16:00-16:30	Coffee Break/Poster Session I				
	<i>Materials, methods and devices for biosensing I (ctn)</i> (Chair: P. A. Lieberzeit)			<i>Biosensing for healthcare I (ctn)</i> (Chair: M.C. Moreno Bondi)	
16:30-17:00	KN3	<u>M. Holzinger</u>	Improved immunosensing using low dimensional carbon	KN4	<u>P.B. Lupp</u> Point-of-Care Testing – How to manage the stretch between clinical needs and technological opportunities
17:00-17:20	OC5	<u>H. Ashiba</u> , Y. Nakaya, H. Sato, Y. Aida, M. Fujimaki	Detection of proteins expressed by in vitro translation using external force-assisted biosensor	OC6	A. Squassero, Á. Artiga, C. Morasso, R. Ramirez Jimenez, R. Martín Rapún, R. Mancuso, S. Agostini, A. Hernis, A. Abols, A. Linē, A. Gualerzi, S. Picciolini, M. Bedoni, M. Rovaris, F. Gramatica, J. M. de la Fuente, <u>R. Vanna</u> Development of a sequence-independent and enzyme-free approach for the detection of multiple microRNAs using a single nanostructured enhancer of SPRI

17:20-17:40	OC7	C. Wang , S. Otto, M. Dorn, K. Heinze, U. Resch-Genger	Ratiometric Luminescent TOP Nanosensors for Simultaneously Measuring Temperature, Oxygen, and pH at a Single Excitation Wavelength	OC8	L. Lehniger , S. Pahlow, S. Hentschel, K. Weber, J. Popp	Particle-based sample preparation strategies for the detection of relevant pneumonia pathogens
17:40-18:00	OC9	Z. Farka , M. J. Mickert, A. Hlaváček, U. Kostiv, V. Poláchová, M. Pastucha, H. H. Gorris, P. Skládal	Single-molecule immunoassays based on upconversion nanoparticles for detection of cancer markers and bacteria	OC10	D. Calabria , M. Zangheri, M. Mirasoli, C. Caliceti, A. Quintavalla, M. Lombardo, C. Trombini, P. Simoni, A. Roda	A smartphone-based thermochemi-luminescent biosensor for valproic acid detection in blood and saliva
	Auditorium					
18:00-18:25	Poster Session I Flash Presentations (Chair: D. Compagnone)					
18:25-20:00	Poster Session I + Get together cocktail					

Tuesday, February 19

Tuesday, February 19						
		Auditorium				
09:00-09:45	PL II	A.P.F. Turner	Reflections on the past, present and future of biosensing (Chair: A. Baumner)			
	Auditorium			Room 103		
	Electrochemical biosensing I (Chair: L. Gorton)			Engineered, bio- and, synthetic receptors I (Chair: M.J. Lobo-Castanon)		
10:00-10:30	KN5	B. Piro, V. Noël, G. Mattana, S. Reisberg	From electrochemical biosensors to water-gated transistors	KN6	M.C. Moreno Bondi, R.Peltomaa, B.Glahn-Martínez, E.Benito Peña, R.Barderas, F.Amaro, G.Orellana	Advances in the quest for new selective recognition elements for optical biosensors using phage display techniques
10:30-10:50	OC11	L.E. Delle, V. Pachauri, A. Vlandas, M. Riedel, X.T. Vu, P. Wagner, R. Thoelen, F. Lisdat, S. Ingebrandt	Nanometer scale multi-electrode arrays for biosensing	OC12	H. Adamson, D.C.Tomlinson, C. Walti, M.J. Mcpherson, L.J.C. Jeuken	Re-engineering an enzyme switch as a generic platform for rapid biomolecule
10:50-11:10	OC13	P.Bollella, S.Sharma, A.E.G.Cass, R. Antiochia	Minimally-invasive Microneedle-based Biosensor Array for Simultaneous Lactate and Glucose Monitoring in Artificial Interstitial Fluid	OC14	X. Chen, A. J. Gross, S. Cosnier, F. Giroud	Enzymatic Biofuel Cells as Self-powered Sensing Devices
11:10-11:40	Coffee Break					
	Auditorium			Room 103		
	Electrochemical biosensing I (ctn) (Chair: B. Piro)			Optical biosensing I (Chair: G. Spoto)		
11:40-12:00	OC15	A. Ruff, S. Teanphonkrang, S. Janke, A. Ernst, P. Chaiyen, J. Sucharitakul, W. Suginta, P. Khunkaewla, W. Schuhmann, A. Schulte	Allosteric activation of an enzyme embedded in a redox polymer for tuned amperometric biosensing	OC16	X. Li, H. Altug	Decoding the cell monologue: label-free nanobiosensor enables real-time analysis of live cell secretion
12:00-12:20	OC17	C. Griesche, S. R. Nugen, A. J. Baeumner	Electrochemical detection of E. coli utilizing genetically modified bacteriophages	OC18	N.S. Lynn, T. Špringer, J. Slabý, B. Špačková, M. Gráfová, M.L. Ermini, J. Homola	Nanoplasmonic biosensing: consideration of analyte transport
12:20-12:40	OC19	L. Gorton, P. Bollella, K. Kano, Y. Hibino, R. Antiochia	Fructose biosensors based on direct electron transfer between fructose dehydrogenase and electrodes	OC20	M.G. Manera, A. Colombelli, M. Cesaria, D. Lospinoso, S. Scarano, M. Minunni, R. Rella	Tunable nanoplasmonic functional transducers: novel insights for health applications
12:40-13:00	OC21	N. A. Abdelshafi, J. Bell, K. Rurack, R. Schneider	Microfluidic electrochemical lab-on-chip immunosensor for ultrasensitive analysis of cocaine in water, saliva, and urine	OC22	C.Desmet, K. Vindas, R. Alvarado Meza, P. Garrigue, S. Arbault, N. Sojic, T. Leichle, A. Buhot, Y. Roupioz, L. Leroy, E. Engel	Multiparametric sensing on micro-structured optical fibres by surface plasmon resonance for multiple applications
13:00-14:30	Lunch					

		Auditorium				
14:30-15:15	PLIII	<u>J. Homola</u>	Plasmonic biosensors for molecular diagnostics	(Chair: G. Gauglitz)		
		Auditorium			Room 103	
		<i>Materials, methods and devices for biosensing II (Chair: C. Kranz)</i>			<i>Optical biosensing II (Chair: J. Dostalek)</i>	
15:30-16:00	KN7	<u>K. De Wael</u>	Bio-inspired laser-induced electrochemical sensing strategies	KN8	<u>G. Proll</u>	A combination of imaging based direct optical biosensing and microarray applications – where are the benefits?
16:00-16:20	OC23	F. Schenk, J. Hutterer, P. Weber, A. Dietzel, <u>G. Gauglitz</u>	Paper-based strips for Anywhere analytics	OC24	<u>A. Nabok</u> , A.M. Al-Jawdah, H. Abu-Ali, G. Catanante, J-L. Marty	Label-free detection of mycotoxins with optical planar waveguide polarization interferometry aptasensor
16:20-16:40	OC25	N. Bagheri, <u>S. Cinti</u> , R. Massoud, D. Moscone, F. Arduini	A 96-well wax printed Prussian Blue paper for the visual determination of cholinesterase activity in serum	OC26	<u>N. Nechaeva</u> , I. Boginskaya, I. Kurochkin	Glycated blood proteins detection by surface-enhanced Raman spectroscopy
16:40-17:00	Coffee Break/Poster Session II					
		<i>Materials, methods and devices for biosensing II (ctn) (Chair: K. De Wael)</i>			<i>Optical biosensing II (ctn) (Chair: G. Proll)</i>	
17:00-17:20	OC27	<u>K.-H. Feller</u> , M. Büttner	Oncology meets microfluidic - development of a Lab-on-Chip chemosensitivity assay for primary cancer cells	OC28	<u>M. Prante</u> , C. Ude, M. Große, L. Raddatz, U. Krings, G.T. John, S. Belkin, T. Scheper	A portable biosensor for 2,4-dinitrotoluene vapors
17:20-17:40	OC29	<u>M. Agostini</u> , G. Greco, M. Cecchini	Ultra-High-Frequency Surface-Acoustic-Wave microfluidics and biosensors	OC30	L. De Stefano, I. Rea, <u>R. Moretta</u> , M. Terracciano, G. Piccialli, R. Schettino, N. Borbone, G. Oliviero	Hybrid graphene oxide-porous silicon biosensor for early diagnosis of Sudden Death Syndrome
17:40-18:00	OC31	<u>J. Cao</u> , B.P. Chaill, S. Schneider, A. Groß, M. Kastl, J.M. Köhler	Droplet-based microfluidic system with integrated multi-sensor technology for microtoxicological studies	OC32	<u>T. Steinwedel</u> , J.C. König, D. Solle, P. Lindner, I. de Vries, T. Hentrop, M. Findeis, G. T. John, T. Scheper, S. Beutel	Development and characterisation of a new fluorescence sensor for online monitoring of bioprocesses
		Auditorium				
18:00-18:25	Poster Session II Flash Presentations					(Chair: S. Scarano)
18:25-20:00	Poster Session II					

Wednesday, February 20

		Auditorium			
09:15-10:00	PL IV	<u>L. Torsi</u> , E.Macchia, K. Manoli, B. Holzer, C.Di Franco, M. Ghittorelli, F.Torricelli, D. Alberga, G.F.Mangiatordi, G. Palazzo, G.Scamarzio	Single-molecule, label-free bio-detection with a wide-field transistor (Chair: A.P.F Turner)		
		Auditorium		Room 103	
		<i>Materials, methods and devices for biosensing III (Chair: L. Torsi)</i>		<i>Biosensing for healthcare II (Chair: P. Lupp)</i>	
10:15-10:45	KN9	<u>P.A. Lieberzeit</u> , S. Chunta, A. Strallhofer, W. Naklua, R. Suedee	Surface imprinting for label-free detection of biospecies	KN10	<u>M.-P. Marco</u> Micro & Nano(bio)technology for Diagnostics: Changes and Challenges
10:45-11:05	OC33	<u>N. Ahmad</u> , B. Colak, M.J. Gibbs, D. Zhang, J. E. Gautrot, M. Watkinson, R.C. Becer, S. Krause	Collagenase Biosensor Based on Degradation of Peptide Cross- Linked Poly(ethylene glycol) Hydrogel Films Using a Quartz Crystal Microbalance	OC34	<u>S. Vasudevan</u> , J. Kajtez, A-I. Bunea, N. B. Larsen, A. Gonzalez-Ramos, M. Kokaia, T.R. Moreno, A. Martínez-Serrano, A. Heiskanen, S. S. Keller, J. Emnéus Opto-electrical carbon fiber for real-time optical stimulation and electrochemical detection of dopamine exocytosis
11:05-11:25	OC35	<u>S. Scarano</u> , P. Palladino, A. Brittolli, E. Pascale, F. Torrini, V. Baldoneschi, M. Minunni	POLYDOPAMINE: a smart polymer for biosensing	OC36	<u>S. Tombelli</u> , C. Trono, S. Berneschi, A. Giannetti, C. Berrettoni, R. Bernini, G. Testa, G. Persichetti, G. Orellana, A.B. Descalzo, F. Salis, C. Gartner, G. Porro, G. Quarto, M. Schubert, M.T. O'Connell, P. Freitas, P. Lupp, H. Bittersohl, G. Gauglitz, U. Hilbig, K. Freudenberg, F. Baldini A novel POCT optical device for the detection of immunosuppressants in transplanted patients
11:25-11:50		Coffee Break			
		Auditorium		Room 103	
		<i>Electrochemical biosensing II (Chair: U. Wollenberger)</i>		<i>Optical biosensing III (Chair: J. Hiltunen)</i>	
11:50-12:10	OC37	S.K.K. Galagedera, <u>U. Flechsig</u>	Interaction of DNA with small molecules studied by millisecond-resolved EQCM and voltammetric isotope effects	OC38	<u>M. Janik</u> , M. Koba, A. Celebańska, W.J. Bock, M. Śmietana Micro-cavity in-line Mach-Zehnder interferometer for small-volume label-free biosensing: concept verification by thin Al ₂ O ₃ film deposition

12:10-12:30	OC39	<u>J. Tkáč</u> , T. Bertók, L. Lorencova, E. Jane, M. Hires, F. Květoň, A. Blsakova, S. Hroncekova, V. Gajdosova	Cancer diagnostics using glycan recognition by the electrochemical biosensors with design controlled at nanoscale	OC40	C.A. Mandon, <u>C. Marquette</u>	4D printing: chemiluminescent printed biosensors
12:30-12:50	OC41	<u>V. Serafin</u> , G. Martínez-García, E. Martínez-Periñán, A. Valverde, F.N. Comba, M. Garranzo-Asensio, R. Barderas, S. Campuzano, P. Yáñez-Sedeño, J.M. Pingarrón	Integrated electrochemical immunosensor for sensitive determination of IL-13 receptor $\alpha 2$ in paraffined-embedded tumor tissues using MWCNTs/GQDs hybrid nanocarriers	OC42	S. Fossati, S. Hageneder, N. Sanchez, D. Hafner, C. Thanner, M. Hiltunen, J. Hiltunen, <u>J. Dostalek</u>	Plasmonically amplified fluorescence biosensors with scaled up produced chips
12:50-13:10	OC43	H. Zhang, <u>T. Vöpel</u> , N. Plumeré	An enzymatic oxygen scavenger for oxidase-based bioelectrochemical processes - Case study of an oxygen-interference free glucose biosensor	OC44	<u>R. Rogosic</u> , J.W. Lowdon, B. Heidt, E. Steen Redeker, H. Diliën, K. Eersels, T.J. Cleij, B. van Grinsven	A disposable multi-drug test based on a dye displacement assay in molecularly imprinted polymers
13:10-14:30	Lunch					
	Auditorium			Room 103		
	Materials, methods and devices for biosensing IV (Chair: K.P. Nichols)			Engineered, bio- and, synthetic receptors II (Chair: F. Ricci)		
14:30-15:00	KN11	C. Liedert, M. Hiltunen, L. Hakalahti, S.Aikio, S.Uusitalo, O.-H.Huttunen, J.Hiitola-Keinänen, S. Fossati, S. Hageneder, J. Dostalek, <u>J. Hiltunen</u>	Roll-to-roll printed biosensors	KN12	A. Díaz-Fernández, R. Lorenzo-Gómez, R. Miranda-Castro, N. de los-Santos-Álvarez, <u>M.J. Lobo-Castañón</u>	Aptamer based electrochemical sensors for the analysis of tumor biomarkers
15:30-15:50	OC45	<u>M. Smolka</u> , A. Haase, A. Proksch, E. Gonzalez, P. Toren, D. Nees, S. Ruttloff, L. Kuna, C. Leiner, B. Stadlober, J. Hesse, B. Hierschläger, M. Sonnleitner, S. Hemanth, J. Kafka, M. Lohse, M. Thesen, M. Horn, W. Weigel, N. Briz, G. Bijelic	Roll-to-roll imprinting and microarray spotting of biosensors	OC46	<u>F. Bottari</u> , E. Daems, A.M. de Vries, P. Van Wielendaele, S. Trashin, R. Blust, F. Sobott, J.C. Martins, A. Madder, K. De Wael	The affinity between aptamers and low molecular weight compounds: a cautionary tale
15:50-16:10	OC47	J. Lin, S. Daboss, D. Blaimer, <u>C. Kranz</u>	Pulse Deposition of Functional Polydopamine Films	OC48	<u>E. Del Grosso</u> , G. Ragazzon, L. J. Prins, F. Ricci	Fuel-responsive allosteric DNA-based aptamers for the transient release of ATP and cocaine
16:10-16:30	OC49	<u>X. Knigge</u> , Ch. Wenger, F. F. Bier, R. Hölzel	Dielectrophoretic Immobilization of single Biomolecules	OC50	A. Sett, L. Zara, E. Dausse, <u>J.-J. Toulmé</u>	Light-up aptasensors for the detection of biomarkers
16:30-16:50	Coffee Break/Poster Session III					

	<i>Materials, methods and devices for biosensing IV (ctn) (Chair: D. Beckmann)</i>			<i>Engineered, bio- and, synthetic receptors II (ctn) (Chair: W. Kutner)</i>		
16:50-17:20	KN13	S.Byrnes, T.C.Chang, T.Huynh, A.Astashkina, B. H. Weigl, <u>K.P. Nichols</u>	Digital Assays: There's Plenty of Room in the Middle	KN14	<u>F. Ricci</u>	DNA-based nanodevices for diagnostic applications
17:20-17:40	OC51	<u>E. Mendoza</u> , A. Neumann, Y. Kuznetsova, S.R.J. Brueck, J. Edwards	Advances Towards the Development of an Electrophoretic Plasmonic Nanopore Biochip Genome Sequencer	OC52	<u>M. Heinelt</u> , G. Nöll, Q. Su, S. Vogt	Does DNA hybridization at surfaces follow the Langmuir model of adsorption?
17:40-18:00	OC53	<u>F. Della Pelle</u> , S. Gaggiotti, M. Mascini, D. Compagnone	Gas sensors array equipped with Hairpin DNA traps for food quality and production process evaluation	OC54	<u>S. Di Masi</u> , C. Malitesta	Ion imprinted electrosynthesised polymers for copper(II) detection
	Auditorium					
18:00-18:20	Poster Session III Flash Presentations (Chair: F. Baldini)					
18:20-19:30	Poster Session III					

Thursday, February 21

Auditorium						
09:00-09:45	PL V	<u>D. Cialla-May</u> , K. Weber, J. Popp	Label-free SERS in biological and biomedical applications	(Chair: M. Minunni)		
Auditorium				Room 103		
<i>Materials, methods and devices for biosensing V (Chair: M. Minunni)</i>				<i>Biosensing for healthcare III (Chair: D. Cialla-May)</i>		
10:00-10:30	KN15	J. Pallu, C. Rabin, G. Creste, M. Branca, B. Limoges, <u>F. Mavr�</u>	Molecular sensing through the triggering of autocatalytic reactions: towards exponential signal amplifications in bioelectroanalytical methods	KN16	P. Ertl, <u>M. Rothbauer</u>	Implantable Biosensors, Smart Implants & Self-powered Sensing Solutions
10:30-10:50	OC55	N. Tran, M. Paliouras, <u>P. Mohammadyousef</u> , M. Trifiro, A. Kirk	Real-time fluorophore-free optical monitoring of ultrafast DNA amplification for qPCR	OC56	M. Cretich, <u>D. Brambilla</u> , A. Romanato, M. Odinolfi, E. Chiodi, S. Descroix, A. Yalcin Ozkumur, M.S. Unlu, M. Chiari	Microarray based platform for extracellular vesicles imaging and phenotyping
10:50-11:10	OC57	<u>V.A. Bragina</u> , S.L. Znoyko, A.V. Orlov, M.P. Nikitin, P.I. Nikitin	Highly sensitive immunomagnetic biosensing platform for rapid quantitative detection of thyroid-stimulating hormone	OC58	N. Farhoudi, H.-Y. Leu, J. Magda, F. Solzbacher, <u>C.F. Reiche</u>	Sensing of biomedical analytes based on resonant absorption of ultrasound in smart hydrogel microstructures
11:10-11:40	Coffee Break					
Auditorium				Room 103		
<i>Engineered, bio- and, synthetic receptors III (Chair: F. Mavr�)</i>				<i>Optical biosensing IV (Chair: F. Baldini)</i>		
11:40-12:00	OC59	K. Bartold, A. Pietrzyk-Le, T.P. Huynh, Z. Iskierko, M. Sosnowska, K. Noworyta, W. Lisowski, F. Sannicol�, S. Cauteruccio, E. Licandro, F. D'Souza, <u>W. Kutner</u>	Molecularly imprinted polymer for hexakis(2,2'-bithien-5-yl) DNA analog formation aiming at single-nucleotide-polymorphism detection	OC60	<u>A. Sinibaldi</u> , V. Monta�o-Machado, N. Danz, P. Munzert, F. Chiavaioli, F. Michelotti, D. Mantovani	Real-time study of biomolecular coatings by means of Bloch surface wave biosensors
12:00-12:20	OC61	<u>A. Yarman</u> , K.J. Jetzschmann, U. Wollenberger, Frieder W. Scheller	Electrochemical MIPs for Protein Sensing Using Three Levels of Template	OC62	R. D'Agata, S. Korom, A. Rozzi, M. Allegretti, P. Giacomini, R. Corradini, <u>G. Spoto</u>	Plasmonic detection of oncogenic DNA in liquid biopsy samples
12:20-12:40	OC63	<u>A. Zanut</u> , A. Porchetta, G. Valenti, M. Marcaccio, F. Ricci, F. Paolucci	Electrochemiluminescent DNA sensor for the detection of specific DNA sequences	OC64	<u>T. Allsop</u> , C. Mou, R. Neal, S. Scarano, D. Nagel, S. Tombelli, K. Kalli, C. Wang, M. Minunni, D.J. Webb, J. Ana-Castonon	Ultra-sensitive aptasensors based upon single-stage opto-plasmonic sensing platform
Auditorium						
12:40-13:30	Awards and Closing Ceremony					

Poster Session I - 18 February 2019

PI.1 (flash presentation)

C. Warmt, M. K. Erazo Lugo, J. E. Ritter, L. Hintze, J. Henkel, F. F. Bier “Novel RT-PCR based assay for the fast detection of circRNAs”

PI.2 (flash presentation)

B. Della Ventura, M. De Angelis, M. Banchelli, P. Matteini, R. Funari, A. Illiano, A. Amoresano, R. Velotta, “Immunosensor surface functionalization by simple photochemical immobilization technique (PIT): A spectroscopic demonstration”

PI.3 (flash presentation)

E. Pardoux, M. Boulade, L. Leroy, D. Boturyn, T. Livache, Y. Roupioz, “Bacteria detection using microarrays processed by Surface Plasmon Resonance imaging”

PI.4 (flash presentation)

M. Magiati, V.M. Myridaki, T.K. Christopoulos, D.P. Kalogianni, “Lateral flow assay for meat authentication with visual detection

PI.5 (flash presentation)

M. Zangheri, M. Mirasoli, C. Caliceti, D. Calabria, E. Marchegiani, F. Di Nardo, P. Simoni, L. Anfossi, C. Baggiani, A. Roda, “A new smartphone-based biosensor for colorectal-cancer screening: chemiluminescent lateral flow immunoassay for fecal hemoglobin detection”

PI.6 (flash presentation)

F. Regan, C. Briciu-Burghina, B. Heery, “Testing coastal bathing water and freshwater using a novel hand-held optical biosensor for detection of faecal pollution”

PI.7 (flash presentation)

R. Bombera, A. Järvinen, R. Ståhlberg, J. Kuncova-Kallio, “Multi-Parametric Surface Plasmon Resonance (MP-SPR) in biosensor development”

PI.8

V. Shumyantseva, T. Bulko, D. Pergushov, F. Schacher, J. Yuan, L. Sigolaeva, “Electrooxidative detection and quantification of dsDNA based on long-life dispersions of MWCNTs via poly(ionic liquid)s and amphiphilic diblock copolymers”

PI.9

L. De Stefano, I. Rea, R. Moretta, G. Vitiello, B. Silvestri, A. Aronne, “Optical detection of Listeria by functionalized F-doped ZnO”

PI.10

M. Noffke, X. Knigge, C. Wenger, F. F. Bier, R. Hölzel, “Production and Characterization of Enzyme Nanoarrays assisted by alternating electric fields”

PI.11

G. Fusco, G. Gobel, G. Favero, F. Mazzei, F. Lisdat, “Electrochemical deposition of polythiophene from an aqueous solution for enzyme electrode preparation”

PI.12

R. Hölzel, X. Knigge, E.-M. Laux, M. Noffke, S. Stanke, C. Wenger, F. F. Bier, “AC electrokinetic immobilisation of nanoparticles and proteins”

PI.13

L.V. Sigolaeva, V.V. Shumyantseva, A. Yu. Konyakhina, J. Yuan, D.V. Pergushov, F.H. Schacher, “Polymer-based hybrid materials for advanced (bio)sensing applications”

PI.14

S. Rella, G. Manera, A. Colombelli, R. Rella, C. Malitesta, “Enzyme immobilized on functionalized gold nanoparticles for heavy metals sensing”

PI.15

F. Vivaldi, A. Bonini, A. Kirchhain, N. Poma, B. Melai, P. Salvo, F. Di Francesco,” A graphenic pH sensor on paper”

PI.16

N. Poma, A. Bonini, B. Melai, A. Kirchhain, P. Salvo, A. Tavanti, F. Di Francesco, “Monitoring of microbial growth with a graphene-based sensor”

PI.17

M. Kruse, S. Stanke, Ch. Warmt, H. Müller-Landau, R. Hölzel, U. Rant, F.F. Bier, “Measuring multivalent interactions between Influenza A and Peptides using electronically switchable DNA nanolevers”

PI.18

D.V. Pergushov, A. Yu. Konyakhina, J. Max, T.V. Bulko, V.V. Shumyantseva, F.H. Schacher, L.V. Sigolaeva, “Stable aqueous dispersions of carbon nanotubes via polydehydroalanine-based copolymers: preparation and application for surface modification and design of electrochemical biosensors”

PI.19

M.S. Filipiak, D. Vetter, O. Gutiérrez-Sanz, M. Jönsson-Niedziółka, A. Tarasov, “Direct electron transfer from glucose dehydrogenase to single sheet graphene electrode

PI.20

A. Cossettini, L. Selmi, “Calibration of High-Frequency Impedance Spectroscopy Measurements with Nanocapacitor Arrays”

PI.21

A. Bagi, S.D. Soelberg, C. Wiemann, C.E. Furlong, T. Baussant, “Portable surface plasmon resonance (SPR) for real-time monitoring of marine obligate hydrocarbon degrading bacteria”

G. Greco, M. Agostini, A. Sonato, R. Shilton, M. Travagliati, G. Signore, G. Ruffato, E. Gazzola, F. Romanato, Marco Cecchini, “Surface acoustic wave (SAW)- surface plasmon resonance (SPR) microfluidic biosensor for real-time monitoring and enhancement of chemical functionalization of gold films”

PI.23

J. Posseckardt, C. Schirmer, M. Schröder, M. Gläser, W. Scharff, S. Howitz, M. Mertig, “Detection of diclofenac in wastewater by genetically engineered yeast cells enclosed in a single-use flow cell”

PI.24

V. Oliynky, H. Haschke, T. Jähnke, “Combined Optical Tweezers and Atomic Force Microscope device to create the ultimate nano-force toolbox”

PI.25

O. Alekseeva, E. Gonzalez-Arribas, C. Di Bari, A. L. De Lacey, M. Pita, R. Ludwig, M. D. Toscano, S. Shleev, “One electrolyte based glucose/oxygen electric power biodevice with an operating voltage exceeding 1.24 Volt”

PI.26

L. N. Gómez-Arribas, J.L. Urraca, E. Benito-Peña, M.C. Moreno-Bondi, “Tag-specific affinity purification of recombinant proteins by using molecularly imprinted polymers”

PI.27

N. Cennamo, M. Pesavento, F. Arcadio, S. Marchetti, L. Zeni, “A Sensor for furfural detection in water based on MIPs combined with a novel SPR platform”

PI.28

N. Cennamo, S. Tombelli, F. Chiavaioli, C. Trono, A. Giannetti, A. Aray, M. Soltanolkotabi, L. Zeni, F. Baldini, “An SPR biosensor in POFs to detect sepsis biomarkers”

PI.29

S. Daboss, A. Hellmann, C. Hartmann, P. Radermacher, C. Kranz, “Platinum black-modified microelectrodes for biomedically relevant hydrogen peroxide detection”

PI.30

S.K.K. Galagedera, G. -U. Flechsig, “H/D isotope effects on the interaction of small molecules with self-assembled monolayers of DNA on gold electrodes”

PI.31

M. Turemis, G. Basile, M.T. Giardi, “Microorganisms and Biomimetics-based Biosensors for Environmental Monitoring”

PI.32

V. Rahemi, S. Trashin, Z. Hafideddine, S. Van Doorslaer, V. Meynen, L. Gorton, K. De Wael, “Reactive oxygen species generated on titania impregnated with horseradish peroxidase as a source for the detection of phenolic compounds”

PI.33

I. Del Villar, P. Zubiate, F. Chiavaioli, A. Urrutia, D. Santano, A. Vicente, A. Giannetti, S. Tombelli, C. Trono, F. Baldini, C. R. Zamarreño, F. J. Arregui, “The nanocoating material: a key element for development of D-shaped fiber-based label-free biosensors”

PI.34

F. Conzuelo, F. Zhao, V. Hartmann, M. M. Nowaczyk, A. Ruff, M. Rögner, W. Schuhmann, “Controlled orientation of photosystem 1 monolayers for the fabrication of photoelectrochemical devices with anisotropic electron flow”

PI.35

I. Palchetti, F. Bettazzi, M. Mæland Nilsen, A. Krolicka, E. Ravagnan, T. Baussant, “Electrochemical platforms for eDNA monitoring”

PI.36

S. Berneschi, F. Baldini, F. Bettazzi, V. Nasorri, I. Palchetti, S. Tombelli, C. Trono, A. Giannetti, “Selectively photo-induced immobilization of antibodies into micro-bubble resonators for immunoassays”

PI.37

C. Laurent, J. Kieninger, L. David, I. Doench, G. Urban, A. Osorio, “Electrodeposition of chitosan hydrogel on microelectrode for biosensor applications”

PI.38

S.T. Shanmugam, S. Trashin, K. De Wael, “Gold thin-film based photoelectrochemical DNA-sensors”

PI.39

A. Toldrà, C. Alcaraz, K.B. Andree, M. Fernández-Tejedor, J. Diogène, I. Katakis, C.K. O’Sullivan, M. Campàs, “Detection of toxic microalgae in the marine environment by colorimetric and electrochemical DNA-based bioanalytical systems”

PI.40

C. D'Andrea, A. Giannetti, F. Baldini, M. Banchelli, A. Barucci, S. Berneschi, N. G. Boetti, M. de Angelis, D. Janner, S. Pelli, R. Pini, D. Pugliese, D. Milanese, P. Matteini, "SERS bio-sensing in ion-exchanged glass microrods"

PI.41

V. Ayerdurai, M. Cieplak, P. S. Sharma, F. D'Souza, W. Kutner, "Molecularly Imprinted Polymers for Determination of Chosen Food Toxins"

PI.42

J. Cernigoj, J. Berzins, P. L. Stoevelaar, F. Silvestri, F. Setzpfandt, T. Pertsch, S. M. B. Bäumer, G. Gerini, "Low-loss all-dielectric SERS substrates"

PI.43

E. Mazzotta, C. Malitesta, M. De Luca, C. Bucci, S. Mariani, L.M. Strambini, G. Barillaro, "Polymer deposition on nanoporous silicon surface functionalized with his-tag-Rab7 protein. Toward protein surface imprinting for optical sensing applications"

Poster Session II - 19 February 2019

PII.1 (flash presentation)

M. Simsek, A. J. Baeumner, N. Wongkaew, “Carbon Nanofibers for Electrochemical Sensing Fabricated by Novel Laser-Induced Carbonization of Electrospun Polyimide”

PII.2 (flash presentation)

G. Göbel, Fred Lisdat, “Electrochemical discrimination of dopamine and related catecholamines at fluorine doped tin oxide”

PII.3 (flash presentation)

S. Campuzano, E. Povedano, V. Ruiz-Valdepeñas Montiel, A. Valverde, M. Pedrero, P. Yáñez-Sedeño, R. Barderas, A. Peláez-García, José M. Pingarrón, “Versatile electroanalytical bioplatfroms for the determination of cancer-related DNA 5-methyl- and 5-hydroxymethyl-cytosines both at global and gene-specific levels”

PII.4 (flash presentation)

B. Ahmed, H.-Y. Leu, W. Lee, J. Magda, F. Solzbacher, C. F. Reiche, J. Körner, “A flexible mechanical bending concept for smart hydrogel-based biosensing”

PII.5 (flash presentation)

I. Palchetti, F. Bettazzi, L. Falciola, V. Pifferi, A. Testolin, L. Curri, M. Corricelli, C. Ingrosso, “Colloidal Nanoparticle modified Graphene-based electrochemical Platforms for small RNA determination”

PII.6 (flash presentation)

F. Arduini, V. Caratelli, J. Guiducci, D. Moscone, “An origami paper-based lab-on-a-chip for precision medicine in Alzheimer disease”

PII.7 (flash presentation)

R. Guliev, A. Suntsova, A. Shchegolikhin, “Identification of microorganisms by fourier-transform infrared spectroscopy”

PII.8

M. Hämmerle, K. Hilgert, R. Moos, "Optimisation of a biocathode for O₂ reduction based on multi-walled carbon nanotubes and laccase"

PII.9

G. Moro, N. Slegers, F. Bottari, L. M. Moretto, K. De Wael, “Conductive imprinted polymers for the direct electrochemical detection of β -lactam antibiotics: the case of cefquinome”

PII.10

F. Heinrich, M. Riedel, F. Lisdat, “Study on hybridization of abasic DNA to gold-fixed capture probe”

PII.11

F. Alvarado-Hidalgo, K. Ramírez-Sánchez, R. Zamora, E. Avendaño, O. Rojas, G. Saenz-Arce, R. Starbird, “Study of the effect of Gold Nanoparticles on PEDOT modified electrodes for electrochemical biosensing of thiol compounds using continuous flow system”

PII.12

A. Bonini, F. Vivaldi, B. Melai, E. Herrera, A. Kirchhain, N. Poma, P. Salvo, F. Di Francesco, “An enzymatic biosensor for real-time monitoring of urea during dialysis”

PII.13

A. Bonini, G. Martin, F. Vivaldi, L. Tedeschi, N. Poma, A. Kirchhain, B. Melai, P. Salvo, F. Di Francesco, “Development of an impedimetric aptasensor for TNF- α detection”

PII.14

T. Kremers, D. Laaf, L. Elling, U. Schnakenberg, “Influence of a non-ionic surfactant on the biotin-streptavidin binding on gold surfaces”

PII.15

J. Erfkamp, M. Guenther, G. Gerlach, “Urea-sensitive biosensors based on stimuli-responsive hydrogels and the functionalized enzyme urease”

PII.16

B. Mitrova, A. F. T. Waffo, P. Kaufmann, C. Iobbi-Nivol, S. Leimkühler, U. Wollenberger, “Electrochemical biosensor for TMAO detection with a chimeric enzyme”

PII.17

L.-M. Wagner, M. Pilecky, G. Mazza, C. Preininger, M. Brandl, “Simulation and optimization of a screen-printed electrode for chronoamperometric detection of biogenic amines”

PII.18

N. Cennamo, L. Zeni, E. Catalano, F. Arcadio, A. Minardo, “SPR sensing in light diffusing fibers”

PII.19

M. Giannetto, S. Fortunati, F. Curti, A. Rozzi, R. Corradini, M. Careri, “Novel amperometric genosensor for determination of non-amplified GM soy DNA: a comparison of carbon nanotubes and glassy carbon as electrode substrates for immobilization of PNA probes”

PII.20

G. Breveglieri, F. Salvatori, A. Finotti, L.C. Cosenza, C. Zuccato, N. Bianchi, I. Lampronti, E. D'Aversa, C. Tupini, M. Borgatti, R. Gambari, "Development and characterization of a cellular biosensor for the screening of globin gene inducers useful in β -thalassemia"

PII.21

M. Tidare, H. Bergling, H. Roos, Å. Lundström, C. Holmgren, "Biacore™ 8K and Biacore 8K+: Hardware that supports the need for efficiency in drug discovery"

PII.22

M. Lindgren, V. Fridh, A. Moberg, H. Roos, H. Bergling, M. Tidare, Å. Lundström, O. Karlsson, L. Nygren-Babøl, C. Holmgren, "Kinetic and concentration analysis in all directions with Biacore™ 8K and Biacore 8K+"

PII.23

S. Schneider, J. Ettenauer, M. Brandl, "Use of phospholipase A activity for detection of pathogenic bacteria in vitro"

PII.24

M. Ciaraglia, P. Palladino, S. Scarano, L. Dei, M. Minunni, E. Carretti, "Set up and application of an analytical protocol to control in real time the cleaning of painted surfaces of historical and artistical interest through "smart" devices"

PII.25

A. Pigozzo, "The BLI technology to measure Protein, Antibodies and Small Molecules interactions"

PII.26

P. Palladino, A. Britoli, E. Pascale, M. Minunni, S. Scarano, "Colorimetric determination of total protein content in serum based on the polydopamine/protein adsorption competition on microplates"

PII.27

J. Pilas, D.L. Röhlen, T. Selmer, M. Keusgen, M.J. Schöning, "Monitoring of fermentation processes using an enzyme-based biosensor array"

PII.28

N. Adly, K. Terkan, L. Grob, S. Zips, L. Weiß, P. Rinklin, B. Wolfrum, "Sensitive Detection Using Inkjet Printed Sensor Plates"

PII.29

A. Valipour, M. Roushani, T. Ruzgar, "Peroxidase - silver nanoparticle interaction"

PII.30

M.M. Calabretta, E. Michelini, A. Lopreside, L. Montali, A. Roda, “Novel bioluminescent biosensor based on split luciferase for real-time detection of androgenic activity in living cells”

PII.31

M. Heinelt, T. Nöll, G. Nöll, “Spectroelectrochemical investigation of Cholesterol Oxidase from *Streptomyces lividans* at different pH values”

PII.32

H.P. Parker, H. Schulze, T.T. Bachmann, “Electrochemical Impedance Spectroscopy Diagnostic Platform to tackle Antimicrobial Resistance”

PII.33

D. Rojas, F. Della Pelle, M. Del Carlo, A. Escarpa, D. Compagnone, “Nanomaterial-based electrochemical sensing strategies for cell lines oxidative stress evaluation and for bio-compounds detection in food”

PII.34

N.N. Durmanov, R.R. Guliev, I.A. Boginskaya, “The application of porous silver surfaces and nanoparticles in virus detection and identification via SERS”

PII.35

V.M. Friebe, M.R. Jones, R. N. Frese, N. Plumeré, “Biophotoelectrochemistry for Biosensing”

PII.36

G. Breveglieri, A. Finotti, C. Gemmo, I. Lampronti, L.C. Cosenza, C. Zuccato, E. Fabbri, N. Bianchi, E. D’Aversa, J. Gasparello, M. Zurlo, C. Papi, M. Borgatti, R. Gambari, “SPR-based studies of the binding efficiency of LYAR protein to the (+25 G→A) A γ -globin gene sequences mutated in β -thalassemia”

PII.37

C. Trono, S. Tombelli, S. Berneschi, A. Giannetti, F. Chiavaioli, B. Adinolfi, R. Bernini, I.A. Grimaldi, G. Persichetti, G. Testa, G. Porro, F. Baldini, “Fluorescence optical prototype based on waveguide absorption filters for multi-assay sepsis detection”

PII.38

C. Trono, P. Biswas, F. Chiavaioli, S. Jana, N. Basumallick, A. Giannetti, S. Tombelli, A. Mallick, F. Baldini, S. Bandyopadhyay, “Silica-titania thin film coated over-coupled long period fibre gratings for bio-sensing applications”

PII.39

M. Banchelli, C. Amicucci, D. Ciofini, G. Ghini, C. D’Andrea, M. De Angelis, S. Siano, R. Pini, P. Matteini, “Plasmonic spot-on Raman sensor for biomolecules”

PII.40

M. Titubante, L. Micheli, C. Mazzuca, S. Sotgiu, S. Iannuccelli, “Towards a possible technique to remove foxing from artefacts”

PII.41

V. Caratelli, F. Arduini, G. Fegatelli, G. Palleschi, D. Moscone, “Origami multiple paper-based electrochemical biosensors for pesticide detection in Brassicaceae plant waste”

PII.42

N. Colozza, K. Kehe, G. Dionisi, T. Popp, A. Tsoutsoulopoulos, D. Steinritz, D. Moscone, F. Arduini, “A wearable origami-like paper-based electrochemical biosensor for sulfur mustard detection in liquid and gas phase”

PII.43

M. Mirasoli, C. Trono, S. Berneschi, A. Giannetti, M. Zangheri, M. Guardigli, S. Tombelli, F. Baldini, A. Roda, “Chemiluminescence emission anisotropy real time detection by means of optical fibre radial light collection system”

PII.44

O. Hosu, M. Lettieri, N. Papara, A. Ravalli, R. Sandulescu, C. Cristea, G. Marrazza, “A rapid colorimetric enzyme-based biosensor”

PII.45

X. Lu, W.M. Munief, P. Damborsky, J. Katrlík, V. Pachauri, S. Ingebrandt, “Top-down fabricated reduced graphene oxide thin-films as functional layer for surface plasmon based biosensing”

Poster Session III - 20 February 2019

PIII.1 (flash presentation)

A. Miti, G. Zuccheri, “Dual HCR-based amplification triggered by triple helix probe for the detection of microRNAs”

PIII.2 (flash presentation)

A. Kirchhain, A. Bonini, F. Vivaldi, N. Poma, F. Di Francesco, “Enzyme Inhibitor based Capacitive biosensors for Matrix- metalloproteinase quantification in wound fluids”

PIII.3 (flash presentation)

F. Dinter, P. Schierack, W. Lehmann, G. Dame, S. Rödiger, “Simultaneous Detection and Quantification of DNA and Protein Biomarkers of Cardiovascular Diseases in a Microfluidic Microbead Chip”

PIII.4 (flash presentation)

S. Picciolini, A. Gualerzi, A. Squassero, C. Carlomagno, M. Masserini, M. Bedoni, “An SPRI-based biosensor for the detection and characterization of different neuronal and glial populations of circulating extracellular vesicles”

PIII.5 (flash presentation)

R. Sun, S. Mak, M. Schmalenberg, P. B. Lupp, “Nanodiscs incorporating functional beta-1 adrenergic receptors as novel diagnostic approach for autoimmune dilated cardiomyopathy”

PIII.6 (flash presentation)

M. Tertis, P. Ionut Leva, D. Bogdan, M. Suciu, F. Graur, C. Cristea, “Label-free Aptasensing Platform for Electrochemical Detection of Interleukin-6”

PIII.7

M. Tertiş, G. Melinte, B. Ciui, R. Ştiuflu, R. Săndulescu, C. Cristea, “New Electrochemical Magnetoimmunosensor for Interleukin-6 Quantification in Human Serum”

PIII.8

M. Cretich, A. Gori, A. Romanato, M. Odinolfi, G. Bergamaschi, L. Sola, I. D’Annessa, G. Colombo, M. Chiari, “Evolving immune-sensing on peptide microarrays: application to Zika virus diagnostics”

PIII.9

F. Damin, S. Galbiati, N. Soriani, V. Burgio, M. Ronzoni, M. Ferrari, M. Chiari, “Analysis of KRAS, NRAS and BRAF mutational profile by combination of in-tube hybridization and universal tag-microarray in tumor tissue and plasma of colorectal cancer patients”

PIII.10

G. Marzano, M. S. Chiriaco, E. Primiceri, S. Rizzato, A. G. Monteduro, A. Leo, F. Sirsi, G. Maruccio, “Innovative tools for point-of-care diagnostics and on-field assays”

PIII.11

M. Gamella, V. Serafín, M. Pedrero, E. Povedano, M. Batlle, P. García de Frutos, S. Campuzano, P. Yañez-Sedeño, J.M. Pingarrón, “Electrochemical biosensors: promising tools for multiplexed determination of emerging cardiovascular biomarkers”

PIII.12

C. Muñoz-San Martín, M. Gamella, M. Pedrero, S. Campuzano, J.M. Pingarrón, “Peptide-based electrochemical biosensor for detection of protease activity in cancer diagnosis”

PIII.13

Z. Anajafi, M. Naseri, S. Marini, C. Espro, D. Iannazzo, S. G. Leonardi, G. Neri, “NdFeO₃ as a new electrocatalytic material for electrochemical monitoring of dopamine”

PIII.14

V. Bello, G. Rigamonti, S. Merlo, “Innovative micro-opto-fluidic sensing platform based on rectangular glass micro-capillaries for refractive index detection”

PIII.15

S. Mak, R. Sun, M. Schmalenberg, P. B. Luppa, “Integration of the platelet antigens GPIIb/IIIa and GPIb/IX into lipid bilayer nanodiscs for the detection of autoimmune thrombocytopenia”

PIII.16

J. Potreck, P. Luppa, “Development of a New Biosensor for Increasing the Specificity and Selectivity to Detect Anti-Factor VIII Antibodies from acquired Haemophilia A Patients in Human Plasma”

PIII.17

A. Poschenrieder, H. Bittersohl, D. Cialla-May, M. Grasmeyer, P. B. Luppa, “Novel approach to optimized antibiotic therapy through patient-tailored antibiotics dosing”

PIII.18

B. Adinolfi, S. Tombelli, C. Trono, A. Giannetti, M. Pellegrino, G. Sotgiu, G. Varchi, M. Ballestri, C. Domenici, F. Baldini, “Polymethylmethacrylate nanoparticles promote endocytosis of a survivin molecular beacon as theranostic agent in human cancer cells”

PIII.19

M. Agio, P. Cecchi, F. Chiavaioli, A. Giannetti, S. Howitz, P. Lombardi, N. Soltani, F. Sonntag, C. Toninelli, “Fiber-based planar antennas for biosensing and diagnostics”

PIII.20

J. Schiebel, J. Noack, R. Hiemann, M. Sowa, J. Weinreich, S. Rödiger, D. Roggenbuck, P. Schierack, “Novel digital image analysis of FISH stained bacteria”

PIII.21

S.D. Psoma, “An aptamer-based fluorescent biosensor for insulin detection”

PIII.22

N. Haustein, A. Tarasov, “Analytical model describes the effect of poly-ethylene glycol on ionic screening of analyte charges in transistor-based immunosensing”

PIII.23

S. Darvishi, H. Pick, T.-E. Lin, X. Li, P.-C. Ho, H. H. Girault, A. Lesch, “Non-invasive electrochemical detection of melanoma in skin”

PIII.24

F. Sirsi, S. Rizzato, V. A. Dediu, G. Foschi, P. Greco, C. Taddei, L. Marnitz, A. Moskaltsova, J. Schmalhorst, G. Reiss, G. Maruccio, “Magnetic particles sensing: a novel dynamic approach”

PIII.25

M. Agostini, G. Greco, F. Amato, I. Tonazzini, M. Cecchini, “Glial fibrillary acidic protein (GFAP) detection in serum: a comparison between three functionalization strategies”

PIII.26

A. Pflieger, C. Bartsch, K.-H. Feller, “Development of a fluorescent two-component glucose sensing system for chemosensitivity testing on primary tumor cells”

PIII.27

P. Skladal, J. Pribyl, G. Caluori, M. Pesl, S. Jelinkova, Z. Cechova, V. Rotrekl, R. Raiteri, ““Heart-on-chip” for disease models and drug testing”

PIII.28

R. Ziolkowski, M. Jarczewska, Adrianna Kaczmarek, E. Malinowska, “Electrochemical immunosensor for detection of diphtheria toxoid”

PIII.29

E.T. Bougadi, D.P. Kalogianni, “Paper-based DNA biosensor for visual detection of milk adulteration”

PIII.30

A. Asif, S. Garcia López, S. Hemanth, Y. M. Hassan, A. Heiskanen, A. Martínez Serrano, S. Sylvest Keller, M. Pereira, J. Emnéus, “Multifunctional pyrolytic carbon scaffolds for stem cell therapy”

PIII.31

J. Arreola, M. Keusgen, M. J. Schöning, “Spore-based biosensors as a rapid method for sterilization evaluation in aseptic filling machines”

PIII.32

M. Jablonski, D. Molinnus, L. Muschallik, J. Bongaerts, T. Wagner, T. Selmer, P. Siegert, M. Keusgen, M.J. Schöning, “Capacitive field-effect biosensor with acetoin reductase for acetoin detection”

PIII.33

L. Ortega, A. Llorella, J.P. Esquivel, N. Sabaté, “Self-powered smart patch for sweat conductivity measurement”

PIII.34

N. Bellassai, A. Marti, R. D’Agata, R. Corradini, J. Huskens, G. Spoto, “New antifouling, mixed-charge peptide-poly-L-lysine polymers for DNA detection in human plasma”

PIII.35

A. De Masi, P. L. Scognamiglio, P.A. Netti, F. Causa, E. Battista, “Engineering hydrogel microparticles for immunoassay”

PIII.36

L. Chrastinová, M. Bocková, O. Pastva, J. Novák, J. Čermák, J. Suttner, J. E. Dyr, J. Homola, “A method for monitoring and investigation of myelodysplastic syndromes progression based on analysis of glycoprotein interactions”

PIII.37

W. Lowdon, R. Rogosic, Benjamin Heidt, E. Steen Redeker, H. Diliën, B. van Grinsven, T.J. Cleij, K. Eersels, “Surface Grafted Molecularly Imprinted Polymers for the Detection of the New Psychoactive Substance 2-methoxphenidine”

PIII.38

F. Torrini, A. Britto, P. Palladino, M. Minunni, S. Scarano, “ELONA-based approaches for the antibody-free detection of Troponin T, the key biomarker of acute myocardial infarction”

PIII.39

F. Costantini, B.B. Bruijns, N. Lovecchio, R.M. Tiggelaar, A. Nascetti, G. de Cesare, J.G.E. Gardeniers, D. Caputo, “On-Chip real-time multiple displacement amplification of DNA”

PIII.40

T. Horiuchi, K. Ito, H. Kobayashi, A. Yanagida, “Investigation on stainless-steel stents fabricated using projection lithography and wet etching”

PIII.41

A. Raysyan, R.J.Schneider, “Lateral Flow ImmunoAssays for the detection of bisphenol A emissions from plastic materials”