

EBS 2019 Programme

Florence, 18-21 February 2019

Monday, February 18

11:00-13:30		Registration			
		<i>Auditorium</i>			
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>	<i>Bio-Sensing: Optical or by Electronics?</i>	(Chair: F. Lisdat)	
<i>Auditorium</i>			<i>Room 103</i>		
<i>Materials, methods and devices for biosensing I (Chair: P. Skladal)</i>			<i>Biosensing for healthcare I (Chair: I. Kurochkin)</i>		
14:50-15:20	KN1	<u>E. Climent</u> , W. Wan, M. Weller, K. Rurack	<i>Novel specific bio-gated hybrid materials and its integration into versatile platforms for advanced sensing applications</i>	KN2	<u>G. Jobst</u> <i>Biosensors in real settings</i>
15:20-15:40	OC1	<u>M. Riedel</u> , F. Lisdat	<i>Light-directed wiring of PQQ glucose dehydrogenase to inverse opal TiO₂ architectures</i>	OC2	G. Breviglieri, E. D'Aversa, P. Pellegatti, G. Guerra, L.C. Cosenza, A. Finotti, R. Gambari, <u>M. Borgatti</u> <i>A novel and efficient protocol for Surface Plasmon Resonance based detection of four β-thalassemia point mutations in blood samples and salivary swabs</i>
15:40-16:00	OC3	<u>S. Dantism</u> , D. Röhlen, T. Wagner, P. Wagner, M.J. Schöning	<i>Monitoring of the metabolic activity of different bacteria by means of a differential LAPS</i>	OC4	F. Teng, <u>M. Libera</u> <i>Miniature biosensors for multiplexed infection diagnostics</i>
16:00-16:30		Coffee Break/Poster Session I			
<i>Materials, methods and devices for biosensing I (ctn) (Chair: P. A. Lieberzeit)</i>			<i>Biosensing for healthcare I (ctn) (Chair: M.C. Moreno Bondi)</i>		
16:30-17:00	KN3	<u>M. Holzinger</u>	<i>Improved immunosensing using low dimensional carbon</i>	KN4	<u>P.B. Luppa</u> <i>Point-of-Care Testing – How to manage the stretch between clinical needs and technological opportunities</i>
17:00-17:20	OC5	<u>H. Ashiba</u> , Y. Nakaya, H. Sato, Y. Aida, M. Fujimaki	<i>Detection of proteins expressed by in vitro translation using external force-assisted biosensor</i>	OC6	A. Sguassero, 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> <i>Development of a sequence-independent and enzyme-free approach for the detection of multiple microRNAs using a single nanostructured enhancer of SPRi</i>

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

Auditorium						
09:00-09:45	PL II	<u>A.P.F. Turner</u>	Reflections on the past, present and future of biosensing	(Chair: A. Baumner)		
Auditorium			Room 103			
<i>Electrochemical biosensing I (Chair: L. Gorton)</i>			<i>Engineered, bio- and, synthetic receptors I (Chair: M.J. Lobo-Castanon)</i>			
10:00-10:30	KN5	<u>B. Piro</u> , V. Noël, G. Mattana, S. Reisberg	From electrochemical biosensors to water-gated transistors	KN6	<u>M.C. Moreno Bondi</u> , 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, <u>V. Pachauri</u> , A. Vlandas, M. Riedel, X.T. Vu, P. Wagner, R. Thoelen, F. Lisdat, S. Ingebrandt	Nanometer scale multi-electrode arrays for biosensing	OC12	<u>H. Adamson</u> , 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, <u>R. Antiochia</u>	Minimally-invasive Microneedle-based Biosensor Array for Simultaneous Lactate and Glucose Monitoring in Artificial Interstitial Fluid	OC14	X. Chen, A. J. Gross, S. Cosnier, <u>F. Giroud</u>	Enzymatic Biofuel Cells as Self-powered Sensing Devices
11:10-11:40	Coffee Break					
Auditorium			Room 103			
<i>Electrochemical biosensing I (cm) (Chair: B. Piro)</i>			<i>Optical biosensing I (Chair: G. Spoto)</i>			
11:40-12:00	OC15	<u>A. Ruff</u> , 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	<u>X. Li</u> , H. Altug	Decoding the cell monologue: label-free nanobiosensor enables real-time analysis of live cell secretion
12:00-12:20	OC17	<u>C. Griesche</u> , S. R. Nugen, A. J. Baeumner	Electrochemical detection of E. coli utilizing genetically modified bacteriophages	OC18	<u>N.S. Lynn</u> , T. Špringer, J. Slabý, B. Špačková, M. Gráfová, M.L. Ermini, J. Homola	Nanoplasmonic biosensing: consideration of analyte transport
12:20-12:40	OC19	<u>L. Gorton</u> , P. Bollella, K. Kano, Y. Hibino, R. Antiochia	Fructose biosensors based on direct electron transfer between fructose dehydrogenase and electrodes	OC20	<u>M.G. Manera</u> , 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, <u>R. Schneider</u>	Microfluidic electrochemical lab-on-chip immunosensor for ultrasensitive analysis of cocaine in water, saliva, and urine	OC22	<u>C.Desmet</u> , 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		
		Materials, methods and devices for biosensing II (Chair: C. Kranz)			Optical biosensing II (Chair: J. Dostalek)		
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						
		Materials, methods and devices for biosensing II (ctn) (Chair: K. De Wael)			Optical biosensing II (ctn) (Chair: G. Proll)		
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.Mangiatoridi, G. Palazzo, G.Scamarcio	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. Luppa)</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. Ennéus 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. Brittoli, 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. Luppa, H. Bittersohl, G. Gauglitz, U. Hilbig, K. Freudenberger, 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 Al2O3 film deposition

12:10-12:30	OC39	<u>J. Tkac</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		
	<i>Materials, methods and devices for biosensing IV (Chair: K.P. Nichols)</i>			<i>Engineered, bio- and, synthetic receptors II (Chair: F. Ricci)</i>		
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	<i>S.Byrnes, T.C.Chang, T.Huynh, A.Astashkina, B. H. Weigl, <u>K.P. Nichols</u></i>	<i>Digital Assays: There's Plenty of Room in the Middle</i>	KN14 <u>F. Ricci</u>	<i>DNA-based nanodevices for diagnostic applications</i>
17:20-17:40	OC51	<i><u>E. Mendoza</u>, A. Neumann, Y. Kuznetsova, S.R.J. Brueck, J. Edwards</i>	<i>Advances Towards the Development of an Electrophoretic Plasmonic Nanopore Biochip Genome Sequencer</i>	OC52 <u>M. Heinelt</u> , G. Nöll, Q. Su, S. Vogt	<i>Does DNA hybridization at surfaces follow the Langmuir model of adsorption?</i>
17:40-18:00	OC53	<i><u>F. Della Pelle</u>, S. Gaggiotti, M. Mascini, D. Compagnone</i>	<i>Gas sensors array equipped with Hairpin DNA traps for food quality and production process evaluation</i>	OC54 <u>S. Di Masi</u> , C. Malitesta	<i>Ion imprinted electrosynthesised polymers for copper(II) detection</i>
	Auditorium				
18:00-18:20	Poster Session III Flash Presentations		(Chair: F. Baldini)		
18:20-19:30	Poster Session III				

Thursday, February 21

<i>Auditorium</i>						
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)		
<i>Auditorium</i>			<i>Room 103</i>			
<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. Mavré</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					
<i>Auditorium</i>			<i>Room 103</i>			
<i>Engineered, bio- and, synthetic receptors III (Chair: F. Mavré)</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. Sannicolò, 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. Montaña-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. Allsup</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
<i>Auditorium</i>						
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”

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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”

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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”

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

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

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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”

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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”

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

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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”

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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”

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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”

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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”

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

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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”

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

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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”

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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”

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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”

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

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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”

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

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

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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”

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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"

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

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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"

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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"

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

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

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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 bioplatfoms 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"

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

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

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

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

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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"

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F. Heinrich, M. Riedel, F. Lisdat, “Study on hybridization of abasic DNA to gold-fixed capture probe”
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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”
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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”
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T. Kremers, D. Laaf, L. Elling, U. Schnakenberg, “Influence of a non-ionic surfactant on the biotin-streptavidin binding on gold surfaces”
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J. Erfkamp, M. Guenther, G. Gerlach, “Urea-sensitive biosensors based on stimuli-responsive hydrogels and the functionalized enzyme urease”
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B. Mitrova, A. F. T. Waffo, P. Kaufmann, C. Iobbi-Nivol, S. Leimkühler, U. Wollenberger, “Electrochemical biosensor for TMAO detection with a chimeric enzyme”
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N. Cennamo, L. Zeni, E. Catalano, F. Arcadio, A. Minardo, “SPR sensing in light diffusing fibers”
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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”

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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"

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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"

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

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

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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"

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

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

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

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

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

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

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

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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”

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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”

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

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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”

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

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

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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"

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S. Picciolini, A. Gualerzi, A. Sguassero, 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"

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

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

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M. Tertis, G. Melinte, B. Ciui, R. Ştiufiuc, R. Săndulescu, C. Cristea, "New Electrochemical Magnetoimmunosensor for Interleukin-6 Quantification in Human Serum"

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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"

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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"

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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”
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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”
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V. Bello, G. Rigamonti, S. Merlo, “Innovative micro-opto-fluidic sensing platform based on rectangular glass micro-capillaries for refractive index detection”
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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”
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A. Poschenrieder, H. Bittersohl, D. Cialla-May, M. Grasmeyer, P. B. Luppa, “Novel approach to optimized antibiotic therapy through patient-tailored antibiotics dosing”
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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”
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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”
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A. Pflieger, C. Bartzsch, K.-H. Feller, “Development of a fluorescent two-component glucose sensing system for chemosensitivity testing on primary tumor cells”
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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”
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J. Arreola, M. Keusgen, M. J. Schöning, “Spore-based biosensors as a rapid method for sterilization evaluation in aseptic filling machines”
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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”
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A. De Masi, P. L. Scognamiglio, P.A. Netti, F. Causa, E. Battista, “Engineering hydrogel microparticles for immunoassay”
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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”

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

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