EUROPT(R)ODE XIV

Hotel Royal Continental Napoli, 25-28 March 2018

	Sunday, March 25			
17:00-19:00	**Registration**			
19:00-22:00	**Welcome Reception**			
	Monday, March 26			
08:00-08:45	**Registration**			
	Auditorium			
08:45-09:00	**Opening**			
09:00-10:00	**PL I**	*Itamar Willner*	**Optical Sensing with Nucleic Acid/Nanoparticles Conjugates and DNA Machines**	
	Auditorium		***Mirabilis***	
	Optical fibers and Spectroscopy (I)		**New transducers, dyes and schemes for sensing (I)**	
10:05-10:35	**IL 1**	***Tilted FBG for biochemical sensing*** *Jacques Albert*	**IL 2**	**Molecular imprinted polymers and nanoparticles for optical sensing** *Lei Ye*
10:35-10:55	**OC1**	**Experimental use of IGZO thin film for optical fibre sensors** *A.Ozcariz, M. Dominik, M. Smietana, C.R. Zamarreño, I. Del Villar, F.J. Arregui*	**OC2**	**Optical biosensors using recombinant recognition elements selected by phage display** R.*Peltomaa, B. Glahn-Martínez, L.N. Gómez-Arribas, M.C. Hurtado Sánchez, E. Benito-Peña, R. Barderas, M.C. Moreno-Bondi*
10:55-11:15	**OC3**	**Gold electroless deposition on fiber optic for plasmonic cytokeratin sensing** *M. Loyez, C. Caucheteur, R. Wattiez*	**OC4**	**New synthetic approaches to fluorescent indicator dyes and dyes with long-wavelength-absorbance** *G. J. Mohr, N. Koehne*
11:15-11:40	**Coffee Break**			
	Auditorium		***Mirabilis***	
	Optical fibers and Spectroscopy (II)		**New transducers, dyes and schemes for sensing (II)**	
11:40-12:10	**IL 3**	**Biomedical applications of Raman spectroscopy** *Jürgen Popp*	**IL4**	**Bloch surface wave optical biosensors** *Francesco Michelotti*
12:10-12:30	**OC5**	**Analysis of Urinary Stones using Fiber- optic IR Spectroscopy** *R. Minis, Y. Raichli, D. Lifshit, R. Tor, A. Goriachev, A. Katzir*	**OC6**	**Biomarker monitoring by particle mobility sensing** *R.M. Lubken, E.W.A. Visser, J. Yan, L.J. van IJzendoorn, M.W.J. Prins*
12:30-12:50	**OC7**	**Monitoring carbon dioxide underground: from shallow water to operation in deep observation wells** *J. Delgado, P.M. Di Carmine, D. Berry, N. Guzman, C. Yan*	**OC8**	**Fast antimicrobial susceptibility test based on hydrodynamic trapping** *G. Pitruzzello, S. Thorpe, H. Gadêlha, T.F. Krauss*
12:50-13:10	**OC9**	**Innovative infrared spectroscopy for the identification and quantification of respirable particles in mining scenarios** *R.Stach, T. Barone, P. Krebs, E. Cauda, B. Mizaikoff*	**OC10**	**MOFs as turn on fluorescent optical sensors against endocrine disrupting phthalate plastizicers** *A. C. Arias, S. Beyer, R. Schneider, F. Emmerling*
13:10-14:30	**Lunch**			
	Auditorium			
14:30-15:30	**PL II**	*Maarten Merkx*	**Engineering bioluminescent sensor proteins**	
	Auditorium		***Mirabilis***	
	Chemiluminescence and bioluminescence (I)		**Single molecule detection**	
15:35-16:05	**IL5**	**Chemiluminescence functionalized-nanointerface based biosensors** *Hua Cui*	**IL6**	**Nanopore-based biosensing** *Amit Meller*
16:05-16:25	**OC11**	**Ultrahigh resolution 4D printing: chemiluminescent printed biosensors** *C. A. Mandon, L. J. Blum, C. A. Marquette*	**OC12**	**Probing single biomolecular interactions and dynamics at the nanoscale** *K.Holanová, Ł. Bujak, A. García Marín, V. Henrichs, M. Braun, Z. Lánský, M. Piliarik*
16:25-16:45	**OC13**	**Integrated micro-device for isothermal DNA amplification with on-chip bioluminescence detection** *M. Mirasoli, F. Bonvicini, N. Lovecchio, G. Petrucci M. Zangheri, D.Calabria, F. Costantini, A. Roda, G. Gallinella, D.Caputo, G. de Cesare, A.Nascetti*	**OC14**	**Single protein plasmonic sensors using DNA aptamers** *R.E. Armstrong, P. Zijlstra*
16:45-17:10	**Coffee Break**			
	Auditorium		***Mirabilis***	
	Chemiluminescence and bioluminescence (II)		**Label-free sensing**	
17:10-17:30	**OC15**	**A portable chemiluminescence-based immunosensor to non-invasively monitor the health of astronauts during long-term space exploration: results from the ASI/ESA/NASA "VITA" mission on board the International Space Station (ISS)** *A. Roda, M. Mirasoli, M. Guardigli, M. Zangheri, P. Simoni*	**OC16**	**Invisible fluorinated plastic as label-free optical sensor of water pollutants** *R. Lanfranco, J. Saez, T. Carzaniga, F. Giavazzi, M. Salina, E. Di Nicolò, F. Benito-Lopez, T. Bellini, M. Buscaglia*
17:30-17:50	**OC17**	**Paper-based devices for antibody detection in whole blood with bioluminescent sensing proteins** *K. Tenda, B. van Gerven, R. Arts, M. Merkx, D. Citterio*	**OC18**	**Functionalized silicon nano-structures for selective label-free bioimaging** *C. Schiattarella, M. Terracciano, T. Defforge, G. Gautier, B. Della Ventura, R. Moretta, L. De Stefano, R. Velotta I. Rea*
17:50-18:10	**OC19**	**Chemiluminescent and fluorescent dual-signal metal ions sensing array** *Z. L. Han, H. Cui*	**OC20**	**Nanoagents for logic-gated chemosensing of small molecules** A. *V. Pushkarev, E. N. Mochalova, K. G. Shevchenko, A. V. Orlov, M. P. Nikitin*
18:10-19:10	**Poster pitch presentation**			
19:10-20:00	**Poster Session**			

	Tuesday, March 27			
	Auditorium			
09:00-10:00	**PL III**	*Alberto Diaspro*	**Linear and Non-Linear Fluorescence Optical Nanoscopy**	
	Auditorium		***Mirabilis***	
	Optical sensing and cells (I)		**Silicon photonics**	
10:05-10:35	**IL 7**	**Optical sensing for single cell signaling and cellular analysis** *Nancy Allbritton*	**IL8**	**Biosensing with photonic crystals** *Brian T. Cunningham*
10:35-10:55	**OC21**	**Multi-parametric FLIM-PLIM microscopy of cell proliferation and oxygenation in 3D tissue models** *R.I. Dmitriev, I. A. Okkelman*	**OC22**	**Porous silicon for ultrasensitive and label-free interferometric (bio) sensing** *S. Mariani, L.M. Strambini, L. Tedeschi, G. Barillaro*
10:55-11:15	**OC23**	**MTSERS: A SERS optical shell sensor for 3D molecular mapping of single cell membranes** *Q. Jin, M. Li, B. Polat, S.K. Paidi, A. Dai, A. Zhang, J. Padaguan, I. Barman, D.H. Gracias*	**OC24**	**Multiple allergens detection with Mach-Zehnder interferometers array monolithically integrated on silicon chips** *M.Angelopoulou,A.Botsialas,A.Salapatas, P. S. Petrou, J. Peters, W. Haasnoot, E. Makarona, G. Jobst, K.Misiakos, I. Raptis, S.E. Kakabakos*
11:15-11:40	**Coffee Break/Poster Session**			
	Auditorium		***Mirabilis***	
	Optical sensing and cells (II)		**Biomedical applications (I)**	
11:40-12:10	**IL9**	**Cell and tissues culture monitoring in microfluidics with integrated optical chemical sensors** *Torsten Mayr*	*IL10*	**Phosphorescent oxygen sensors and imaging probes for biomedical research** *Dmitri Papkovski*
12:10-12:30	**OC25**	**Compact LED-based digital inline-holographic microscope for live-cell identification** *G.Scholz, I.Syamsu, S.Maria- na, T. Schulze, K. Mattern, P. Hoermann, J.Hartmann, J.D. Prades, I. Rustenbeck, A. Dietzel, K. Hiller, H.S. Wasisto, A. Waag*	**OC26**	**Plasmonic biosensors for medical applications** *M. Bocková, L. Chrastinová, K. Levová, E. Gedeonová, X. Chadtová Song, O. Pastva, M. Kalousová, J. Suttnar, T. Zima, J. E. Dyr, J. Homola*
12:30-12:50	**OC27**	**Intracellular recording and drug delivery on MEA biosensors** *A.Cerea, V. Caprettini, G. Melle, G. Bruno, F. Moia, L. Lovato, M. Dipalo, F. De Angelis*	**OC28**	**Upconverting nanoparticles as reporters in ultrasensitive immunoassay of cardiac troponin I** *S. Lahtinen, A. Lyytikäinen, N. Sirkka, H. Päkkilä; T. Soukka*
12:50-14:30	**Lunch**			
	Auditorium			
14:30-15:30	**PL IV**	*Sang-Hyun Oh*	**Nanoplasmonic sensing**	
	Auditorium		***Mirabilis***	
	Plasmonics (I)		**Biomedical applications (II)**	
15:35-15:55	**OC29**	**Remote SPR detection of biomolecular interactions through nano-structured optical fiber bundles** *E.Engel, K. Vindas, R. Alvarado Meza, C. Desmet, P. Garrigue, T. Livache, A. Buhot, S. Arbault, N. Sojic, L. Leroy*	**OC30**	**Use of a microarray reader for the fast, label-free and multiplexed measurement of biomarkers for sepsis** *N.Fabri-Faja, R.A. Terborg, F. Yesilköy, O.Calvo, P.Dey, M.- C. Estévez, J.Pello, A.Fàbrega, J.C. Ruiz Rodriguez, A. Belushkin, J. Götzen, P.Soetaert, M. Rabaey, J. J. González-López, H. Altug, V.Pruneri, L.M. Lechuga*
15:55-16:15	**OC31**	**Silver/gold nanostructures based on blu-ray optical discs with integrated microfluidics for multiplexed label-free plasmonic biosensors** *G.A.López-Muñoz, M.-C. Estevez, M. Vázquez-García, M. Berenguel-Alonso, J. Alonso-Chamarro, A. Homs-Corbera, L.M. Lechuga*	**OC32**	**Luminescence sensing of lactate and glucose in serum based on 808 nm NIR excitation** *S. F. Himmelstoß, M. Buchner, L. M. Wiesholler1, S. Märkl, A. J. Baeumner, T. Hirsch*
16:15-16:35	**OC33**	**Functional PDMS-Au nanoparticles nanocomposites: a rapid and low cost approach for potential application as a strain sensor and biosensor in microfluidic devices** *A. Colombelli, M.G. Manera, M. Minunni, S. Scarano, R. Rella*	**OC34**	**Arrayed laser image contrast evaluation (Alice) system for day and night imaging photo-plethysmography (iPPG)** *H. Watanabe*
16:35-17:00	**Coffee Break**			
	Auditorium		***Mirabilis***	
	Plasmonics (II)		**Environmental and food analysis (I)**	
17:00-17:20	**OC35**	**Chiral plasmonics on flexible substrates** *J.Reifsteck, J.He, I.Bruzas, L. Sagle*	**OC36**	**Luminescent sensor for H_2S detection in biomethane streams** *I.Urriza, M.Bedoya, G. Orellana*
17:20-17:40	**OC37**	**Field-deployed plasmonic sensors for clinical and environmental analysis** *J.F. Masson*	**OC38**	**Biofluorometric gas-imaging system "Sniff-cam" for ethanol and acetaldehyde from body after drinking** *K. Iitani, T. Sato, K. Toma, T. Arakawa, K. Mitsubayashi*
17:40-18:00	**OC39**	**Enhancement strategies for a plasmonic biosensor with microarray format for detection of biomarkers** *S. Hageneder, S. Fossati, V. Jungbluth, K. Sergelen, C. Petri, U. Jonas , R. Soldo, A. Weinhäusel, J. Dostálek*	**OC40**	**Development of a low-cost device for detection of explosives vapors by fluorescence quenching** *L. Martelo, E. Torres, L. Marques, H. Burrows, M.N. Berberan-Santos*
18:00-20:00	**Poster Session**			
21:00-23:00	**Conference dinner**			

	Wednesday, March 28			
	Auditorium			
09:00-10:00	**PL V**	*Guillermo Orellana*	**Bridging the gap between the lab and the real world in luminescent photochemical sensors: From molecular and materials engineering to in situ chemical analysis**	
	Auditorium		***Mirabilis***	
	Fluorescence (I)		**Biomedical applications (III)**	
10:05-10:25	**OC41**	**In situ synthesis of fluorescent gold nanoclusters for tyramine determination** *J. Navarro, S. De Marcos, G. Cepriá, J. Galbán*	**OC42**	**Aptamer-gold nanoparticles for the detection of inflammation** *S. Giorgi-Coll, M.J. Marín, O. Sule, P.J. Hutchinson, K.L.H. Carpenter*
10:25-10:45	**OC43**	**Fluorescent chemosensors based on salicylaldehyde hydrazine derivatives** *A.J. Tong, L. Peng, X.Y. Wang, Y. Xiang*	**OC44**	**A novel fluorescence-based integrated platform for POCT** *C.Trono, S. Tombelli, S. Berneschi, A.Giannetti, B. Adinolfi, R. Bernini, I.A. Grimaldi, G. Persichetti, G. Testa, G. Porro, F.Baldini*
10:45-11:10	**Coffee Break**			
	Auditorium		***Mirabilis***	
	Fluorescence (II)		**Environmental and food analysis (II)**	
11:10-11:30	**OC45**	**Nanoparticles of fluorescent conjugated polymers: novel ion- selective optodes** *E. Stelmach, E. Jaworska, K. Kłucińska, A. Kisiel, K. Maksymiuk, A. Michalska*	**OC46**	**Novel optical biosensing technologies for detection of mycotoxins** *A. Nabok, A.G. Al-Rubaye, A.M. Al-Jawdah, J.-L. Marty, G. Catanante, A.Szekacs, E.Takacs*
11:30-11:50	**OC47**	**Single molecule upconversion-linked immunosorbent assay with extended dynamic range for the sensitive detection of diagnostic biomarkers** *M.J.Mickert, Z. Farka, A. Hlaváček, P. Skládal, H. H. Gorris*	**OC48**	**Colorimetric sensors for measuring oxidative status and antioxidant activity** *R.Apak, S.Demirci Çekiç, M.Bener, B. Bekdeşer, A. Üzer Arda, S. E. Çelik, S. Uzunboy, A. N. Avan, F. Dondurmacıoğlu*
11:50-12:10	**OC49**	**Fully reversible hydrogen peroxide optical sensor with fast response** *L. Ding, X-D Wang*	**OC50**	**Developments towards a fluorometric sensing device for multiple hazardous gases** *J.Bartelmess, K. Gawlitza, C. Tiebe, M. Bartholmai, K. Rurack*
	Auditorium			
12:30-13:00	**Awards and final remarks**			