

TENTATIVE PROGRAM

Last Update - November 20, 2017

Wednesday November 22, 2017

08:00-09:00	Registration	
09:00-09:10	Opening Ceremony	
09:10-09:40	Arben Merkoçi (ICN2, Spain)	к
	Health and environment diagnostics using paper-based nanobiosensors	
09:40-10:00	Anna Laromaine (ICMAB-CSIC, Spain)	1
	Bacterial cellulose, a natural polymer for biological applications	
10:00-10:30	Kostas Kostarelos (The University of Manchester, UK)	к
	Learning the pharmacology and toxicokinetics of biologically-relevant graphene materials	
10:30-11:00	Coffee Break, Poster Session & Exhibition	
11:00-11:30	Samuel Sánchez (IBEC, Spain)	к
	Enzyme Catalysis to Power Nanovehicles Towards Nanomedicine	
11:30-11:45	Jose M. Lagaron (CSIC, Spain)	0
	Novel poly(ε -caprolactone)/gelatin wound dressings prepared by emulsion	
	electrospinning with controlled release capacity of Ketoprofen anti-inflammatory drug	
11:45-12:00	Carolina Carrillo Carrion (CIC biomaGUNE, Spain)	0
	Self-assembled nanoclusters of fluorinated quantum dots as delivery platform for enzymes	
12:00-12:15	Martha Vázquez González (Bicosome, Spain)	0
	Smart drug delivery system that targets the epidermis and follicles	
12:15-12:30	Anna Scomparin (Tel Aviv University, Israel)	0
	Combination of Dendritic Cell-targeted Nano-vaccines with Immune Checkpoint Therapy	
	for Melanoma	
12:30-12:45	Solène Passemard (Institute of Material Science of Barcelona-CSIC, Spain)	0
	Improvement of the Enzymatic Activity of α -Galactosidase Using Nanovesicles with	
	application to Fabry Disease treatment	
12:45-13:45	Cocktail Lunch - Poster Session & Exhibition	
13:45-14:15	Poster Session & Exhibition	
14:15-14:45	Kenneth Dawson (CBNI - University College Dublin, Ireland)	K
	Microscopic Molecular Foundations of nano particle interactions with living systems	
14:45-15:15	Danny Porath (The Hebrew University of Jerusalem, Israel)	к
	Novel DNA-Based Molecules and Their Charge Transport Properties	ĸ
15:15-15:45	Jurriaan Huskens (University of Twente, The Netherlands)	к
	General-purpose, functionalized poly-L-lysine polymers as bio-sensing layers, and their	
	use in DNA detection	
15:45-16:15	Coffee Break, Poster Session & Exhibition	
16:15-16:45	Ofra Benny (The Hebrew University of Jerusalem, Israel)	к
	Mechanical cues affecting interactions of nanoparticles with tumor cells	
16:45-17:15	Julian Carrey (INSA-Toulouse, France)	V
	Killing cancer cells using nanoparticles submitted to high- and low-frequency magnetic fields	K
17:15-17:45	Álvaro Somoza (IMDEA Nanociencia, Spain)	к
	Smart Nanoparticles for the Treatment of Cancer	^N

17:45-18:15	María J. Vicent (Príncipe Felipe Research Center, Spain) Versatile Star-shaped Polypeptide Conjugates with Controlled Self-assembly as Single Agents and in Combination Therapy	К
18:15-18:45	Orit Shefi (Bar-Ilan University, Israel) Magnetic Manipulations for Controlling Neuronal Engineering and Regeneration	к
18:45-19:00	Marina Pöttler (University Hospital Erlangen, Germany) Magnetic tissue engineering of the vocal fold: generation of 3D cell constructs using superparamagnetic iron oxide nanoparticles	0
19:00-19:15	Meder Kamalov (University of Vienna, Austria) Biomimetic Synthesis of Functionalized Silica Particles	0

Thursday November 23, 2017

09:00-09:30	Silvia Muro (IBBR and Bioengineering - University of Maryland, USA) Receptor-Targeted Drug Delivery: Biological Mechanistic and Applications	к
09:30-09:45	Tania Patiño (Institute for Bioengineering of Catalonia (IBEC), Spain) Unravelling fundamental aspects of enzyme-powered micro-&nanomotors: towards biomedical applications	0
09:45-10:00	Gabriela Calderó (CIBER-BBN, Barcelona Spain / Institut de Química Avançada de Catalunya., Spain) Nano-emulsions as Microbubble Precursors for Biomedical Applications	0
10:00-10:15	Fabrice Reuven Sultan (MERCK CHIMIE SAS, France) New very small magnetic microspheres in Medical Applications	0
10:15-10:30	Julia Xiaojun Zhao (University of North Dakota, USA) Graphene-based Nanomaterials for Biomedical Applications	0
10:30-11:00	Zvi Hayouka (The Hebrew University of Jerusalem, Israel) Development of novel antimicrobial agents for several applications	к
11:00-11:30	Coffee Break, Poster Session & Exhibition	
11:30-11:50	Jagoba Iturri (BOKU, Austria) Atomic Force Microscopy as a tool for Studying Cell (and Cell Scaffold) Mechanics	I
11:50-12:10	Francisco Porto (Leica Microsystems, Spain) The DMi8S: an open inverted microscopy platform	I
12:10-12:25	Christoph Geers (Adolphe Merkle Institute, Switzerland) Detection and characterization of nanoparticles in biological systems via stimuli-induced heating	0
12:25-12:40	Archana Ramadoss (Nanolane, France) SEEC technology mediated label-free nano-biofilm characterization	0
12:40-12:55	Philip Schäfer (neaspec GmbH, Germany) Exploring biological micro- and nanostructures using infrared nanospectroscopy (nano- FTIR)	0
12:55-13:10	Dedy Septiadi (Adolphe Merkle Institute, Switzerland) 4D live cell imaging to study cellular interplay in a 3D lung model upon (nano)particle exposure	0
13:10-13:25	Miguel Spuch-Calvar (Adolphe Merkle Institute, Switzerland) Nanoparticle Detection in Consumer Products	0
13:25-13:40	Enrique Navarro (Bioinicia S.L., Spain) Electrospinning and Electrospraying applications in pharma and in the BioSpace. Some real practical cases	0
13:40-14:10	Massimo De Vittorio (CBN/IIT, Italy)	к
	Tapered optical probes and optrodes for optogenetics and neurophotonics	
14:10-15:10	Lunch	

15:10-15:40	Laura Lechuga (ICN2, Spain) The potential of photonic point-of-care nanobiosensors for high-value diagnostics	к
15:40-16:10	Avi Schroeder (Technion, Israel) Barcoded nanoparticles for personalizing anti-cancer medicine in the primary tumor and metastasis	к
16:10-16:40	Veronique Preat (Université catholique de Louvain, Belgium) Nanomedicines for the local and targeted treatment of glioblastoma	к
16:40-17:10	Duncan Graham (University of Strathclyde, UK) Nanoparticle based analysis of biomolecules, cells and tissue	к
17:10-17:40	Coffee Break, Poster Session & Exhibition	
	Parallel Session I	
17:40-17:55	Linda Angela Zotti (Universidad Autónoma de Madrid, Spain) Electron transport through peptides and blue-copper azurins	0
17:55-18:10	Thorsten Knoll (Fraunhofer Institute of Biomedical Engineering, Germany) Multimodular in vitro platform for evaluating the effects of nanoparticles on the human body	0
18:10-18:25	Seunghwan Lee (Technical University of Denmark, Denmark) Micro-to-Nanoscale Mechanical Properties of Pig Intestine and Gastric Mucus as Studied with Atomic Force Microscopy	0
18:25-18:40	Thomas Moore (Adolphe Merkle Institute / University of Fribourg, Switzerland) Shoot it or dilute it: Administration method in cell culture alters particle-cell interaction	0
18:40-18:55	Valery Pavlov (CIC BiomaGUNE, Spain) Optical and Electrochemical Bioassays Using Photo-catalytical Activity of Semiconductor Quantum Dots	0
18:55-19:10	Carlos Elvira (Institute of Polymer Science & Technology, CSIC, Spain) Design and synthesis of polymeric vectors improving transfection efficiency in gene therapy applications	0
19:10-19:25	Pilar Rivera Gil (Pompeu Fabra University, Spain) Theranostic nanocapsules for hyperthermia	0
	Parallel Session II	
17:40-17:55	Andrea Bernardos (Interuniversity Research Institute for Molecular Recognition and Technological Development, Spain) Senescent-associated nanoparticles as therapeutic derivatives	0
17:55-18:10	Helena Florindo (Universidade de Lisboa, Portugal) Impact of multicomponent nano-vaccine on immune modulation against solid tumors	0
18:10-18:25	David Limón (Universitat de Barcelona, Spain) Slow microscale coiling in bis-imidazolium supramolecular hydrogel fibres induced by release of a cationic serine protease inhibitor	0
18:25-18:40	Loris Rizzello (University College London, UK) Targeting mononuclear phagocytes for eradicating intracellular parasites	0
18:40-18:55	Dionysia Tsoutsi (Universitat Pompeu Fabra, Spain) Hyperspectral microscopy for single and collective nanoparticle characterization in biological media	0
18:55-19:10	Kaori Sugihara (University of Geneva, Switzerland) Self-assembled lipid nanotubes	0
19:10-19:25	Alina Vasilescu (International Center of Biodynamics, Romania) Development of a SPR aptasensor: towards a robust tool for detecting traces of lysozyme dimer in oligomeric and aggregated mixtures	0

Friday November 24, 2017

09:00-09:30	Yannick Guari (Université de Montpellier, France)	к
	Biosafety of mesoporous silica nanoparticles	

09:30-09:45		
09.30-09.43	Paola Sánchez-Moreno (Istituto Italiano di Tecnologia, Italy) Biotransformation and biological impact of graphene-related materials during simulated oral ingestion	0
09:45-10:00	Laura Rodriguez-Lorenzo (Adolphe Merkle Institute, Switzerland) Quantification of CNT dose delivered to cell surfaces by UV-Vis-NIR spectroscopy	0
10:00-10:15	Alba Hernández Bonilla (Universitat Autònoma de Barcelona, Spain) Synergistic role of nanoceria on the ability of tobacco-smoke to induce carcinogenic hallmarks in lung epithelial cells	0
10:15-10:30	Marcos Sanles-Sobrido (Pompeu Fabra University, Spain) Outstanding characterization of Tungsten nanoparticles to anticipate health harmfulness in case of nuclear reactor accident	0
10:30-11:00	Coffee Break, Poster Session & Exhibition	
11:00-11:20	Marilena Hadjidemetriou (The University of Manchester, UK) In vivo biomolecule corona onto clinically used blood circulating liposomes	I
11:20-11:50	Yan Yan (CBNI - University College Dublin, Ireland) Biological Recognition of Nanoparticles	к
11:50-12:05	Marija Vukomanovic (IBEC, Spain) Arginine – Functionalized Gold Nanoparticles: Synthetic Analogues of Antimicrobial Peptides	0
12:05-12:20	Clara Vilches (Institut de Ciències Fotòniques ICFO, Spain) In vivo optimization of plasmonic photothermal therapy for oncological medicine	0
12:20-12:50	Oded Shoseyov (The Hebrew University of Jerusalem, Israel)	
12.20 12.00	Hybrid Nano Bio-fibers	K
12:50-14:20		K
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12:50-14:20	Hybrid Nano Bio-fibers Lunch Lorenzo Albertazzi (Institute for Bioengineering of Catalonia (IBEC), Spain) Nanoscopy for Nanomedicine: looking at nanomaterials in action one molecule at the	
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