



TENTATIVE PROGRAM

Last Update - November 17, 2016

Tuesday November 22, 2016		
08:00-09:00	Registration	
09:00-09:15	Opening Ceremony	
09:15-09:45	Samuel Sánchez (IBEC, Spain) Chemical Nanomachines as active drug nanovehicles	K
09:45-10:15	Mika Lindén (Ulm University, Germany) Intracellular drug release using mesoporous silica nanoparticles as drug vectors	K
10:15-10:30	Antonios Kanaras (University of Southampton, United Kingdom) Synergistic actions of colloidal nanoparticles: sensing and drug delivery	O
10:30-11:15	Coffee Break, Poster Session & Exhibition	
11:15-11:45	Yuval Ebenstein (Tel Aviv University, Israel) Genome mapping in nanochannel arrays	K
11:45-12:00	Juan Pablo Aguil Antonoff (IMB-CNM (CSIC), Spain) Suspended planar-array chips for molecular multiplexing at the microscale	O
12:00-12:30	Georg Fantner (EPFL, Switzerland) Up Close and Personal: The Process of Mycobacterial Cell Division	K
12:30-13:00	Pascal Jonkheijm (University of Twente, The Netherlands) Dynamic cell-material interactions	K
13:00-13:15	Judith Guasch (Materials Science Institute of Barcelona (ICMAB-CSIC)/CIBER-BBN, Spain) Nanostructured functionalized surfaces for adoptive cell therapy	O
13:15-14:30	Cocktail Lunch - Poster Session & Exhibition	
14:30-15:15	Poster Session & Exhibition	
15:15-15:45	Daniel Navajas (Universitat de Barcelona / IBEC, Spain) Nanomechanics of Soft Biological Tissues Probed with Atomic Force Microscopy	K
15:45-16:00	Lisa Almonte (Universidad de Murcia, CIOyN , Spain) Ideal Atomic Force Microscopy imaging of heterogeneous biological samples in liquids: Topography and Chemical information	O
16:00-16:15	Fernando Herranz (Centro Nacional de Investigaciones Cardiovasculares (CNIC), Spain) Radioisotope Core-doped Magnetic Nanoprobes; a chelator-free approach for PET/MR molecular imaging with extremely small nanoparticles	O
16:15-16:45	Lorenzo Albertazzi (Institute for Bioengineering of Catalonia (IBEC), Spain) Nanoscopy for Nanomedicine: looking at nanomaterials one molecule at a time	K
16:45-17:15	Coffee Break, Poster Session & Exhibition	
Parallel Session I		
17:15-17:30	Lide Arana (Instituto Biofisika (UPV/EHU, CSIC), Spain) Solid lipid nanoparticles for delivery of calendula officinalis extract	O

17:30-17:45	Ana Rita Rodrigues (University of Minho, Portugal) Magneto-sensitive liposomes containing manganese ferrite nanoparticles as nanocarriers for new promising antitumor thienopyridin-amine derivatives	O
17:45-18:00	Gianluca Arauz Garofalo (Universitat de Barcelona, Spain) Prospects of Microwave Spectrometry for vascular stents monitoring: Towards a non-invasive and non-ionizing follow-up alternative	O
18:00-18:15	Inmaculada Campos Sanchez (Universitat Autònoma de Barcelona, Spain) Voltammetric sensor based on Molecularly Imprinted Polymers for 4-Ethylphenol detection	O
18:15-18:30	Alexandre Chicharo (INL - International Iberian Nanotechnology Laboratory / IST-UL, Portugal) Lab-on-a-chip for purification and automated counting of Circulating Tumor Cells from peripheral blood of metastatic cancer patients	O
18:30-18:45	Silvina Samy (INL - International Iberian Nanotechnology Laboratory, Portugal) Microfluidic isolation of cancer cells from blood: towards point-of-care liquid biopsy	O
18:45-19:00	Gavin Coleman (Centre for BioNano Interactions, UCD Dublin, Ireland) Study of Shape-dependent Nanoparticle Interactions	O
Parallel Session II		
17:15-17:30	Maria de la Fuente (Fundación Ramón Domínguez / Health Research Institute of Santiago de Compostela, Spain) Nanotheranostics to interfere the process of metastasis	O
17:30-17:45	Salima Nedjari (Institute for Bioengineering of Catalonia (IBEC), Spain) Geometry of electrospun nanofibers determine the initial interaction and subsequent osteogenic differentiation of mesenchymal stem cell	O
17:45-18:00	Mafalda Rodrigues (Universitat de Barcelona, Spain) Nanostructured materials for intracellular sensing and delivery	O
18:00-18:15	Neus Feliu (Karolinska Institutet, Sweden) Interaction of Nanoparticles with Cells: Nanomaterials For Stem Cell Tracking Applications	O
18:15-18:30	Nagamalai Vasimalai (INL-International Iberian Nanotechnology Laboratory, Portugal) Facile one-pot synthesis of highly luminescent carbon dots from food and its application of in-vitro cancer growth inhibition	O
18:30-18:45	Juan Gallo (International Iberian Nanotechnology Laboratory, Portugal) Magnetic Solid Lipid Nanocomposites as ultra-high MRI contrast enhancers and magnetic hyperthermia induced drug delivery vehicles	O
18:45-19:00	Ilaria Pezzini (Scuola Superiore Sant'Anna, BioRobotic Institute, Italy) Cerium oxide nanoparticles, a promising powerhouse in bioenergetic imbalance	O

Wednesday November 23, 2016		
09:00-09:30	Wolfgang Parak (Philipps University of Marburg, Germany) Interaction of colloidal hybrid nano- and microparticles with cells	K
09:30-10:00	Maurizio Prato (CIC biomaGUNE, Spain) Novel Functional Carbon Bio-Interfaces	K
10:00-10:30	Jose Antonio Garrido (ICREA-ICN2, Spain) Graphene flexible electronics for neuroprosthetics	K
10:30-11:00	Ester Vazquez Fernandez-Pacheco (University of Castilla La Mancha, Spain) Graphene for Bioapplications: Preparation, Cytotoxicity and Integration in 3D-scaffolds.	K
11:00-11:15	Mattia Bramini (Istituto Italiano di Tecnologia/Center for Synaptic Neuroscience and Technologies & Graphene Labs, Italy) Towards graphene for biomedical applications: evaluation of neuronal biocompatibility	O
11:15-11:30	Lucia Delogu (University of Sassari, Italy) Immune characterization of graphene oxide and amino functionalized graphene using new high-throughput analysis	O
11:30-12:00	Coffee Break, Poster Session & Exhibition	
12:00-12:30	Didier Letourneur (Inserm U1148/CNRS, France) Design and in vivo Validations of Nanosystems in Cardiovascular. Tissue Engineering and Molecular Imaging	K
12:30-13:00	Meital Reches (The Hebrew Univ of Jerusalem, Israel) Interactions between peptides and inorganic matter: From basic science to applications	K
13:00-13:30	Tal Dvir (Tel Aviv University, Israel) Engineering strategies for building hearts	K
13:30-14:45	Lunch	
14:45-15:15	Arben Merkoçi (ICREA/ICN2, Spain) Paper-based nanobiosensors in diagnostics: from health, safety and security to environment monitoring	K
15:15-15:30	Ana I. Ballestar Balbás (GPNT, Spain) Highest Quality Graphene for bio-sensing	O
15:30-15:45	Ke Liu (École Polytechnique Fédérale de Lausanne, (EPFL), Switzerland) Democratizing solid-state nanopores for high throughput bio-sensing	O
15:45-16:15	Jouni Ahopelto (VTT Technical Research Centre of Finland Ltd, Finland) Graphene biosensor with fusion protein receptor modules	I
16:15-16:45	Valerio Pruneri (ICFO, Spain) Sensing of particles, micro-organisms and biomarkers using the camera of a mobile phone	K
16:45-17:15	Coffee Break, Poster Session & Exhibition	
17:15-17:45	Michael Tadros (Botín Foundation, Spain) The innovation imperative: turning research results into socioeconomic impact	I
17:45-18:15	Paul Galvin (Tyndall National Institute, University College Cork, Ireland) Digital Health Technology: From Precision Engineering to Precision Medicine	K
18:15-18:45	Christoph Guger (g.tec medical engineering GmbH, Austria) Current and future applications of brain-computer interfaces	I
18:45-19:00	Rafael Bernad (BICOSOME S.L., Spain) Antioxidant stabilization through Bicosomes	O
19:00-19:15	Virginia Cebrián (Mecwins SA, Spain) Ultrasensitive Scanning Laser Analyser for Biomedical Applications	O

Thursday November 24, 2016		
09:00-09:30	Bruno De Geest (Ghent University, Belgium) Biomimetic nanoparticles for lymph node focused immune activation	K
09:30-10:00	Andreas Manz (KIST Europe, Germany) Biomimetic channels and channel networks for microfluidics	K
10:00-10:30	Arnaud Gissot (Bordeaux University, France) Nucleic acid based supramolecular systems: a route to biomedical applications	K
10:30-11:00	Coffee Break, Poster Session & Exhibition	
11:00-11:30	Gianni Ciofani (Polytechnic Univ. of Torino & IIT, Italy) Smart materials for nanomedicine	K
11:30-12:00	Avi Schroeder (Technion, Israel) Personalized Cancer Nanomedicine	K
12:00-12:30	Frederique Cunin (Institut Charles Gerhardt Montpellier-CNRS, France) Porous silicon: a biodegradable semiconductor for nanomedicine	K
12:30-13:00	Véronique Gigoux (LPCNO/INSA - INSERM ERL1226, France) Targeted nanotherapy of endocrine tumors by magnetic intra-lysosomal hyperthermia (MILH)	K
13:00-13:30	Ronit Satchi-Fainaro (Tel Aviv University, Israel) Identifying molecular signatures of tumor dormancy as a basis for the rational design of precision nanomedicines	K
13:30-14:45	Lunch	
14:45-15:15	Danny Porath (The Hebrew University of Jerusalem, Israel) Charge Transport in single DNA-Based Molecules	K
15:15-15:30	Giancarlo Franzese (Universitat de Barcelona / Institut de Nanociencia i Nanotecnologia (IN2UB), Spain) Contribution of Water to Protein Stability and Strategies for Protein Design	O
15:30-15:45	Sylwia Sekula-Neuner (Karlsruhe Institute of Technology / Institute of Nanotechnology, Germany) Interdigitated Bioink Micropatterns Generated by Multiplexed Polymer Pen Lithography	O
15:45-16:00	Giada Graziana Genchi (Istituto Italiano di Tecnologia, Italy) Arrays of titanium dioxide nanotubes with different diameter and surface chemistry influence C2C12 skeletal myoblast adhesion and differentiation	O
16:00-16:15	Imma Ratera (Nanomol Group/Institut de Ciència de Materials de Barcelona (CSIC), Spain) Organic Radical Nanoparticles for Bioimaging Applications	O
16:15-16:30	Francesca Peiro (Institute of Nanoscience and Nanotechnology (In2UB), University of Barcelona, Spain) A journey through the secret life of nanoparticles: from 2D high resolution images to 3D oxidation state mapping	O
16:30	Concluding remarks	