

Wednesday Nov 18, 2015

09:15-09:30	Opening	
	Simo Schwartz Navarro (Vall d'Hebron Hospital - CIBBIM, Spain)	
09:30-10:00	<i>Targeting cancer stem cells to increase sensitivity to chemotherapy</i>	K
	Javier Tamayo de Miguel (IMM-CSIC, Spain)	
10:00-10:30	<i>Nanomechanical and Optomechanical Systems for Cancer Research</i>	K
10:30-11:10	Coffee Break - Poster Session & Exhibition	
	Lorenzo Albertazzi (Institute for Bioengineering of Catalonia (IBEC), Spain)	
11:10-11:40	<i>Super Resolution Imaging of Nanomaterials: Looking at Nanomedicine with New Eyes</i>	K
	Miquel Bosch (Institute for Bioengineering of Catalonia (IBEC), Spain)	
11:40-12:00	<i>The molecular mechanisms of memory persistence: imaging how single synapses learn in real time</i>	I
	Xavier Fernandez Busquets (University of Barcelona / IBEC, Spain)	
12:00-12:30	<i>Nanomedicine: not for the developing world?</i>	K
	Samuel Sánchez (Institute for Bioengineering of Catalonia (IBEC), Spain)	
12:30-13:00	<i>Hybrid micro and nanoBots as future active drug carriers</i>	K
	Cocktail Lunch (offered by NanoBio&Med2015)	
13:00-14:30	Poster Session & Exhibition	
	Etienne Dague (CNRS-LAAS, France)	
14:30-15:00	<i>Biomedical applications of Atomic Force Microscopy</i>	K
	David Caballero (Institute for Bioengineering of Catalonia (IBEC), Spain)	
15:00-15:30	<i>Bioengineered assays for cell migration studies</i>	K
	Menglin Chen (Aarhus University, Denmark)	
15:30-15:45	<i>Ultraporous interweaving electrospun nanofibers and their cellular response</i>	O
	Joël Chopineau (Institut Charles Gerhardt - CNRS/ENSCM/UM, France)	
15:45-16:15	<i>Biomimetic bilayers designed for nanoparticles-membrane interactions and proteins transport studies</i>	K
	Oscar Mendoza (Université de Bordeaux, France)	
16:15-16:45	<i>Assembly of G-Quadruplex DNA nanostructures</i>	K
16:45-17:15	Coffee Break - Poster Session & Exhibition	
17:15-18:45	Parallel Sessions I & II	
21:00	Conference Dinner – Restaurant Patron	

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		Topic
	Morgan Stanton (Max Planck Institute for Intelligent Systems, Germany)	Bio-Inspired
17:15-17:30	<i>Bio-hybrid Janus Motors Driven by Escherichia coli</i>	nanotechnologies
	Alicia Calzado-Martín (Instituto de Microelectrónica de Madrid (CSIC), Spain)	Bio-nano
17:30-17:45	<i>High Resolution Maps of Apparent Young's Modulus of Breast Cancer Cells by PeakForce Modulation Atomic Force Microscopy</i>	measurement and microscopy
	Karolina Mikulska-Ruminska (Institute of Physics Nicolaus Copernicus University, Poland)	Bio-nano
17:45-18:00	<i>Nanomechanics of reelin autism related protein - AFM and SMD studies</i>	measurement and microscopy
	Yolanda Fernández (CIBBIM-Nanomedicine - Vall d'Hebron University Hospital, Spain)	
18:00-18:15	<i>In vitro and in vivo antimetastatic efficacy of a polymer-based paclitaxel conjugate for prostate cancer therapy</i>	Drug Delivery
	Petra Gener (CIBER-BBN, Spain)	
18:15-18:30	<i>New fluorescent CSC models evidence that targeted nanomedicines improve treatment sensitivity of breast and colon cancer stem cells. Sensitivity of breast and colon cancer stem cells</i>	Drug Delivery
	Lorena Simon Gracia (University of Tartu, Institute of Biomedicine, Estonia)	
18:30-18:45	<i>Affinity-targeted tumor penetrating polymersome</i>	Drug Delivery

		Topic
	Peter I Belobrov (Siberian Federal University, Institute of Biophysics SB RAS, Russia)	Nanobioanalysis
17:15-17:30	<i>Microfluidic bioassay based on bacterial luciferase and NADH:FMN-oxido-reductase</i>	in vitro
	María Teresa Valero Griñán (Pfizer - Universidad de Granada - Junta de Andalucía Centre for Genomics and Oncological Research (GENYO), Spain)	Nanobioanalysis
17:30-17:45	<i>A nanotechnology approach to evaluate drug promiscuity in cancer</i>	in vitro
	Rosanna Margalef (UNESCO Sustainability Chair - UPC, Spain)	Nanomaterials for Bio and Medical Applications
17:45-18:00	<i>Cork filter with silver nanoparticles for Lab-Scale water disinfection</i>	Bio and Medical Applications
	Angel Millán (Instituto de Ciencia de Materiales de Aragón, Spain)	Nanomaterials for Bio and Medical Applications
18:00-18:15	<i>Multifunctional Nanoplatform for hyperthermia. Heating and thermometry in a single nanoparticle</i>	
	Ibane Abasolo (Vall d'Hebron Institut de Recerca / Functional Validation & Preclinical Research, Spain)	
18:15-18:30	<i>Improved Pharmacokinetic Profile of Lipophilic Anti-Cancer Drugs Using Targeted Polyurethane-Polyurea Nanoparticles</i>	NanoMaterials for Medicine

Thursday Nov 19, 2015

09:00-09:30	Boaz Mizrahi (Technion - Israel Institute of Technology, Israel)	
	<i>Liquid Polymers for Drug Delivery and Regenerative Medicine</i>	K
09:30-10:00	Ofra Benny (The Hebrew Univ of Jerusalem, Israel)	
	<i>Solidified Polymer Micelles for Drug Delivery in Cancer</i>	K
10:00-10:30	Avi Schroeder (Technion - Israel Institute of Technology, Israel)	
	<i>Personalized Cancer Nanomedicine</i>	K
10:30-11:00	Ayelet David (Ben-Gurion University of the Negev, Israel)	
	<i>Biomedical polymers for treating primary and metastatic tumors</i>	K
11:00-11:30	Danny Porath (The Hebrew Univ of Jerusalem, Israel)	
	<i>The Quest for Charge Transport in single Adsorbed Long DNA-Based Molecules</i>	K
11:30-12:00	Coffee Break - Poster Session & Exhibition	
12:00-13:00	Poster Session & Exhibition	
13:00-14:30	Lunch	
	Oded Shoseyov (The Hebrew Univ of Jerusalem, Israel)	
14:30-15:00	<i>Nano crystalline cellulose-protein composites: Super performing biomaterials for tissue engineering and regenerative medicine</i>	K
	Rosalía Calleja (Mecwins, Spain)	
15:00-15:20	<i>Mecwins: Developing biomedicine applications using nanomechanical sensors</i>	I
	Oihane Ibarrola Moreno (Praxis Group, BioPraxis AIE, Spain)	
15:20-15:35	<i>Nanomedicine, from PoC to reality: the importance of an industrial perspective and GMP scale up</i>	O
	Remy Brossel (Cell Constraint & Cancer, France)	
15:35-15:50	<i>Biomechanics: from in vitro to in vivo</i>	O
	Rafael Bernad (Bicosome S.L., Spain)	
15:50-16:05	<i>Bicosome platform for Skin Drug delivery</i>	O
	José Manuel Rojas (Centro Nacional de Biotecnología, CNB-CSIC, Spain)	
16:05-16:20	<i>Superparamagnetic iron oxide nanoparticle uptake alters M2 macrophage phenotype</i>	O
	Anna Roig (Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Spain)	
16:20-16:35	<i>Bio-identity of Albumin-Iron Oxide Nanoparticles</i>	O
16:35-17:15	Coffee Break - Poster Session & Exhibition	
	Francesco Mallamace (Università degli Studi di Messina, Italy)	
17:15-17:45	<i>The role of water in the protein activity: lysozyme from the glass to the unfolded state</i>	K
	Manuel Marqués (Universidad Autónoma de Madrid, Spain)	
17:45-18:05	<i>Analysis of the dielectric crossover in liquid water and the possible impact on biological and nanoscopic systems</i>	I
	Giancarlo Franzese (Universitat de Barcelona, Spain)	
18:05-18:20	<i>Contribution of Water to Pressure and Cold Denaturation of Proteins</i>	O
	Juliane Simmchen (MPI Intelligent Systems, Germany)	
18:20-18:35	<i>Light driven Micromotors for waste water remediation</i>	O

Friday Nov 20, 2015

09:00-09:30	Gregory F. Schneider (Universiteit Leiden, The Netherlands) <i>Single molecule graphene biosensors: chemistry matters</i>	K
09:30-10:00	Owen J Guy (Swansea University, UK) <i>Graphene Biosensors for Point of Care Diagnostics</i>	K
10:00-10:30	Cécilia Ménard-Moyon (CNRS, France) <i>Biological Applications of carbon-based nanomaterials: from functionalisation to biodegradation</i>	K
10:30-11:00	Amaia Zurutuza (Graphenea, Spain) <i>Graphene for biomedical applications</i>	K
11:00-11:30	Coffee Break - Poster Session & Exhibition	
11:30-12:00	Sinead Winters (Trinity College Dublin, Ireland) <i>Non-covalent functionalisation of graphene: Optimising molecular packing density and stability</i>	K
12:00-12:30	Adrian Bachtold (ICFO, Spain) <i>Towards nano-MRI with mechanical resonator</i>	K
12:30-12:45	Alicia de Andrés (Instituto de Ciencia de Materiales de Madrid - CSIC, Spain) <i>Graphene based platforms for Raman sensing</i>	O
12:45-13:00	Diana Vilela Garcia (Max Planck Institute for Intelligent Systems, Germany) <i>Graphene-based self-propelled micromotors as decontaminating micromachines of environmental pollutants</i>	O
13:00-13:30	Elisabet Prats-Alfonso (IMB-CNM (CSIC), Spain) <i>Graphene in neural interface systems: perspectives and applications</i>	K
13:30-15:00	Lunch	
15:00-15:30	David H. Gracias (The Johns Hopkins University, USA) <i>3D integrated bionanotechnology: From bionic devices to untethered surgical tools</i>	K
15:30-16:00	Hugo Aguas (Universidade Nova de Lisboa, Portugal) <i>Plasmonic Metal Nanoparticles: A tool for molecular and Bio detection</i>	K
16:00-16:15	Valery Pavlov (CIC BiomaGUNE, Spain) <i>Biocatalytic modulation of semiconductor quantum dots: How to apply enzymatic growth and etching of CdS quantum dots to biosensing</i>	O
16:15-16:30	Judit Perez Valero (Institut de Bioenginyeria de Catalunya, Spain) <i>Molecular Wires for the Improvement of DNA Electrochemical Sensors</i>	O
16:30	Closing remarks	

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