

ESF-UB Conference in Biomedicine on Nanomedicine: Reality Now and Soon

23-28 October 2010 Sant Feliu, Spain



Final Programme

Saturday 23 October	
17:00 - 19:00	Registration at ESF Desk
19:00 - 20:30	Welcome Drink and Dinner
Session 1: Setting the Scene	
20:30 - 20:45	Gert Storm - Utrecht University, NL <i>Opening Address</i>
20:45 - 21:00	ESF Representative <i>About the ESF</i>
21:00 - 21:15	University of Barcelona Representative <i>About UB</i>
21:15-21:45	Ruth Duncan - Cardiff, UK <i>Nanomedicines: from lab to clinical practice, successes, challenges and future opportunities</i>
21:45 - 22:30	Mauro Giacca , International Centre for Genetic Engineering and Biotechnology, IT <i>Gene transfer in cardiovascular medicine</i>
Sunday 24 October	
Session 2: Advanced nanomaterials	
08:30 - 09:20	Kostas Kostarelos - University of London, UK <i>Carbon-based nanomaterials</i>
09:20 - 10:10	Heinrich Hofmann - EPFL, CH <i>Magnetic nanoparticles/QDs</i>
10:10 - 10:40	Coffee Break
10:40 - 11:30	Mathias Brust - University of Liverpool, UK <i>Gold nanoparticles</i>
11:30 - 12:20	Chrit Moonen - University Victor Segalen Bordeaux, FR <i>Triggered release/ultrasound</i>
12:20 - 12:35	Khuloud Al-Jamal - University of London, UK <i>Functional motor recovery from brain ischemic insult by carbon nanotube-mediated siRNA silencing</i> (short talk)
12:35 - 12:50	Angel Millan - University of Zaragoza, ES <i>Multifunctional nanoplatform for in vivo and in vitro biomedical applications</i> (short talk)
12:50 - 13:05	Nicolas Voelcker - Flinders University, AU <i>Nanostructured Biomaterials Based on Porous Silicon</i> (short talk)

13:05	Lunch
Session 3: Nanobioanalytics & Nanotoxicology	
15:30 - 16:00	Coffee Break
16:00 - 17:00	Poster Session
17:00 - 17:50	Martin Bennink - University of Twente, NL <i>Lab-on-a-chip</i>
17:50 - 18:40	Joshua LaBaer - Arizona State University, US <i>Nanobiosensors</i>
18:40 - 18:55	Muhammad Asif - Linköping University, SE <i>Potentiometric measurements by using zinc oxide nanorods/nanowires to characterize a single cell</i> (short talk)
18:55 - 20:15	Dinner
20:15 - 21:05	Paul Borm - MagnaMedics, NL <i>Nanoparticles – lessons for nanomedicine</i>
21:05 - 21:20	Maria Gonzalez Gonzalez - Universidad de Salamanca, ES <i>Identification of biomarkers in colorectal cancer (pre- & post-chemotherapy) by nucleic acids programmable protein microarrays (nappa), ifish and SNPs approaches</i> (short talk)
21:20 - 21:35	Ivan Liashkovich - University of Münster, DE <i>Novel method of controlled and inducible AFM tip functionalisation with biomolecules</i> (short talk)
21:35 - 21:50	Nasrin Lotfibakhshaesh - Imperial College London, UK <i>Nanostructure Strontium- substituted Bioactive Glass Coatings for Medical Implants</i> (short talk)
21:50 - 22:05	Kishore Paknikar - Agharkar Research Institute, IN <i>Biostabilized silver nanoparticles based topical antimicrobial gel formulation for the treatment of burns, wounds and diabetic ulcers</i> (short talk)
22:05 - 22:20	Panchanan Pramanik - Indian Institute of Technology, IN <i>Nano-particle for cancer treatment and detection</i> (short talk)
Monday 25 October	
Session 4: Nanopharmaceuticals on the market	
08:30 – 09:20	Francesco Veronese - University of Padua, IT <i>Impact of PEG-proteins</i>
09:20 - 10:10	Felix Kratz - University of Freiburg, DE <i>Impact of Abraxane</i>
10:10 - 10:20	Group Photo
10:20 – 10:50	Coffee Break
10:50 - 11:40	Alberto Gabizon - University of Jerusalem, IL <i>Impact of Doxil/Caelyx</i>
11:40 - 11:55	Ahmad Aroui - University of Southern Denmark, DK <i>sPLA2-susceptible anticancer double lipid prodrugs</i> (short talk)
11:55 - 12:10	Catharina Davies - Norwegian University of Science and Technology, NO <i>The impact of ultrasound on liposomal drug release</i> (short talk)

12:10 - 12:25	Elaine Ferguson - Cardiff University, UK <i>Novel antimicrobial polymer conjugates designed to treat Gram-negative infections and circumvent toxicity and resistance</i> (short talk)
12:25 - 12:40	Camilla Foged - University of Copenhagen, DK <i>Immunity by formulation design: Customizing the adjuvant properties of cationic liposomes by rational combination with immunopotentiators</i> (short talk)
12:40 - 12:55	Stephen Hart - University College London, UK <i>Integrin-Targeted, Smart Nanocomplexes for Tumour Specific Delivery and Therapy by Systemic Administration</i> (short talk)
12:55 - 13:10	Huw Summers - Swansea University, UK <i>Stochastic nanoparticle dose delivery and dilution in proliferating cell populations</i> (short talk)
13:10	Lunch
Session 5: Interactions with the biological milieu	
15:30 - 16:00	Coffee break
16:00 - 17:00	Poster Session
17:00 - 17:50	Moein Moghimi - University of Copenhagen, DK <i>Immunogenicity, opsonization, complement activation, pharmacokinetics</i>
17:50 - 18:40	Dario Neri - Swiss Federal Institute of Technology, CH <i>EPR and its modulation, receptor types/overexpression/binding</i>
18:40 - 18:55	Chiara Callies - Westfälische Wilhelms Universität Münster, DE <i>Membrane potential depolarization softens vascular endothelial cells</i> (short talk)
18:55 - 19:10	Johannes Fels - Universität Münster, DE <i>Nanomechanics of vascular endothelial cells studied with a hybrid fluorescence atomic force microscope</i> (short talk)
19:10 - 20:30	Dinner
20:30 - 21:20	Dusica Maysinger - McGill University, CA <i>Intracellular targeting/trafficking/processing</i>
Session 6: Round table I	
21:20 - 22:20	Developing nanomaterials for biomedical applications: problems and pitfalls
Tuesday 26 October	
Session 7: Nanoimaging	
08:30 - 09:20	Holger Gruell - Philips Research, NL <i>Nanocarriers for molecular imaging and therapy</i>
09:20 - 10:10	Silvio Aime - Università degli studi di Torino, IT <i>Imaging-guided drug delivery</i>
10:10 - 10:40	Coffee Break
Session 8: Ligand-mediated targeting	
10:40 - 11:30	Terry Allen , University of Alberta, CA <i>Ligand-targeted nanomedicines</i>
11:30 - 11:45	Anna Roig - Institut de Ciència de Materials de Barcelona, ES <i>Magnetic-silica nanospheres. Application as contrast agents for MRI and as drug delivery carriers</i>

	(short talk)
11:45 - 12:00	Suna Erdogan - Hacettepe University, TR <i>Iopromide and Tc-99m loaded nano-sized tumor targeted liposomes for tumor imaging by spect/ct</i> (short talk)
Session 9: Nanopharmaceuticals in clinical development	
12:00 - 12:50	Pieter Cullis - Centre for Drug Research and Development (CDRD), CA <i>Lecture</i>
12:50	Lunch
15:30 - 16:00	Coffee Break
16:00 - 17:00	Poster Session
17:00 - 17:50	Maria Jesus Vicent - Centro de Investigación Príncipe Felipe, ES <i>Polymeric drug conjugates</i>
17:50 - 18:05	JM Metselaar - Enceladus Pharmaceuticals BV, NL <i>Independent short communication: Nanocort</i>
18:05 - 18:55	Terry Allen , University of Alberta, CA <i>New anticancer formulations</i>
18:55 - 20:15	Dinner
Session 10: Targeted Nanomedicine & EC	
20:15 - 20:30	Gert Storm - Utrecht University, NL <i>Introduction Integrated Project (FP6) MediTrans/Liposomal dexamethasone - cancer</i>
20:30 - 20:45	Cristianne Rijcken , Utrecht University, NL <i>Polymeric micelles - cancer</i>
20:45 - 21:00	Alessandro Maiocchi - Bracco Imaging SpA, IT <i>Gd-liposomes - imaging</i>
21:00 - 21:15	Sebastien Ballet-Guerbet - Guerbet S.A., FR <i>FeO nanoparticles - imaging</i>
Session 11: Round table II	
21:15 - 22:20	From the laboratory to the patent and then to the patient: managing the process of research translation
Wednesday 27 October	
Session 12: Intracellular delivery of macromolecules	
08:30 - 09:20	Victor Shahin - University of Muenster, DE <i>Structure and function of the nuclear barrier</i>
09:20 - 10:10	Stefaan De Smedt - University of Ghent, BE <i>Plasmid transfer to the nucleus</i>
10:10 - 10:40	Coffee break
10:40 - 11:30	Wim Jiskoot - Leiden University, NL <i>Vaccins</i>
Session 13: Tissue repair	
11:30 - 12:20	David Thomas - Cardiff University, UK <i>Repair and remodeling: the clinical problem</i>
12:20 - 13:10	Viola Vogel - ETH, CH <i>Nanoscale scale analysis of cellular movement</i>
13:10	Lunch
15:00 - 15:30	Business Meeting - Forward Look

15:30 - 16:00	Coffee Break
16:00 - 17:00	Poster Session
17:00 - 17:50	Giuseppe Battaglia - University of Sheffield, UK <i>Getting inside mammalian cells: from effective therapy to single cell diagnostics</i>
17:50 - 18:40	Bing Song - Cardiff University, UK <i>Nanomaterials to direct stem cell migration/differentiation in neuronal injury</i>
Session 14: Closing the scene	
18:40 - 19:30	Rogério Gaspar - University of Lisbon, PT <i>Regulatory/ethical/societal aspects</i>
20:00	Conference Dinner
Thursday 28 October	
08:00	Breakfast and Departure

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