

Nanomedicine 2019

2-3 May 2019



University of Milano-Bicocca
Milano, Piazza della Scienza 1-4
Building U4 Room 08



Thursday 2 May 2019

11.10-11.15 Opening

Cristina Messa (Rector), Massimo Masserini (Director of NanoMIB),
Francesco Nicotra (Workshop chair)

11.15-11.45 Round table **“Nanomedicine beyond H2020, International, National and Regional perspectives”**

Moderator Francesco Nicotra

Donata Medaglini (Italian representative in H2020 Committee), Furio Gramatica (ETPN), Serena Borgna (APRE), Roberto Albonetti (Direzione Generale Ricerca e Innovazione, Regione Lombardia)

Nanotechnology for targeted therapies

Chair Massimo Masserini

11.45 Keynote, Gert Storm, Utrecht University, “Targeted nanopharmaceuticals: where do they stand?”

12.15 Giovanni Tosi, University of Modena e Reggio Emilia, “Brain Disorders and Tailored Nanomedicines: how to move forward”

12.30 Francesca Re, School of Medicine and Surgery, University of Milano-Bicocca “Nanomedicine-based therapy for Alzheimer’s disease”

12.45 Federica Meloni, IRCCS Policlinico San Matteo Foundation, “New local and targeted therapeutic approaches in pulmonary fibrosis and bronchiolitis based on nanotechnology”

13.00-14.00 Lunch and Poster session

Nanomedicine and Theranostics

Chairs Paolo Caliceti and Davide Proserpi

14.00 Miriam Colombo, University of Milano-Bicocca, “Colloidal nanoparticles: master key for biomedical theranostics”

14.15 Daniela Montesarchio, University of Napoli Federico II “Design, synthesis and characterization of multifunctional nanosystems for theranostics”

14.30 Paolo Zunino, Politecnico di Milano, “Mathematical modeling and simulations in nanomedicine”

14.45 Francesca Mastrotto, University of Padova, “Natural and synthetic polysaccharide-based systems to develop novel nanomedicine”

15.00-15.30 Coffee Break and Poster session

Novel nanodelivery systems

Chairs Giuseppe Gigli and Pierangelo Metrangolo

15.30 Francesca Baldelli Bombelli, Politecnico di Milano, “Functional hybrid Au-protein supraparticles for nanodelivery”

15.45 Roberto Simonutti, University of Milano-Bicocca, “Novel polymeric nanostructures obtained by self assembly for drug delivery”

16.00 Francesco Cellesi, Politecnico di Milano, “Synthetic polymers of controlled molecular architecture for targeted drug delivery and diagnostics”

16.15 Loretta Del Mercato, Istituto Nanotec CNR, Lecce, “Multifunctional stimuli-responsive systems for sensing and therapy: towards precision medicine”

16.30 Cristiana Di Valentin, University of Milano-Bicocca, “Modelling Stimuli-Responsive Nanomaterials for Biomedical Applications”

16.45 Keynote, Paolo Netti, University of Napoli Federico II & IIT, “Cell instructive materials to control and guide cell function and state”

17.30-19.00 Poster session



Friday 3 May 2019

Novel biomaterials and Bio-nano interface

Chairs Livia Visai and Luigi Ambrosio

9.00 Keynote. Lorenzo Moroni, Maastricht University, “Biofabrication: from rapid prototyping to bioprinting”

9.30 Laura Russo, Department of Biotechnology and Biosciences, University of Milano-Bicocca “Biomaterials functionalization for nanomedicine applications”

9.45 Maria Grazia Raucci, CNR Napoli, “2D substrate based on exfoliated black phosphorus with dual therapeutic/regenerative behaviors”.

10.00 Nora Bloise, University of Pavia, “Shaping cell behavior by changing the topography and chemistry of the substrate”

10.15 Stefano Salmaso, University of Padova, “Programming drug nanocarrier interfacing properties for enhanced selective targeting”.

10.30 Paolo Bigini, IRCCS - Istituto di Ricerche Farmacologiche “Mario Negri”, Milano, “Bio-nano interaction, from the whole body to sub-cellular bodies”

10.45-11.15 Coffee break and poster session

Nanotoxicity and technical tools for nano-bio characterization

Chairs Giberto Chirico

11.15 Paride Mantecca, University of Milano-Bicocca, “Nano-bio-interactions studies in the safety evaluation of antibacterial metal oxides NPs”

11.30 Roberto Rusconi, Humanitas, “Microfluidic experiments of pathogens transport and biofilm formation”

11.45 Giulio Sancini, University of Milano-Bicocca. “The Janus faces of the inhaled nanoparticles”

12.00 Maddalena Collini, University of Milano-Bicocca, “Photothermal nanoparticles: smart applications and detection”

12.15 Fabio Corsi, Department of Biomedical and Clinical Sciences L. Sacco, University of Milan and Istituti Clinici Scientifici Maugeri IRCCS Pavia. “Biophotonics and nanoparticles: how they can help clinicians in breast cancer management?”

12.30 Francesco Mantegazza, University of Milano-Bicocca, “AFM Single-Molecule Force Spectroscopy of α -Synuclein”