

1st edition

INTERNANOBIOMED@CNR NANOTEC

INTERNATIONAL SCHOOL OF MEDICAL BIONANOTECHNOLOGY AND NANOMEDICINE

LECCE, 05 OCTOBER 2023

CNR NANOTEC - SEMINAR ROOM 'RITA LEVI MONTALCINI'

Program

- 09:00 – 09:15 **Welcome @CNR-NANOTEC**
GIUSEPPE GIGLI (Director CNR-NANOTEC & Coordinator TecnoMed Puglia)
- 09:15 – 09:30 **Introduction**
STEFANO LEPORATTI (CNR NANOTEC, Lecce)
JOSÉ L. TOCA-HERRERA (Biophysics Institute, BOKU University, Vienna)
- Lectures**
- 09:30 – 09:50 **Membrane trafficking in health and disease**
RICCARDO RIZZO (CNR-NANOTEC, Lecce)
- 09:50 – 10:10 **Tackling human Gene function in model organisms using genome engineering**
ANTONIO GALEONE (CNR-NANOTEC, Lecce)
- 10:10 – 10:30 **Microfluidic Technology for the production of Solid Lipid Nanoparticles**
ANTONIO LOPALCO (University of Bari, Department of Pharmacy and Pharmaceutical Sciences)
- 10:30 – 10:45 **Q&A Session**
- 10:45 – 11:15 **Coffee break_Poster session**
- 11:15 - 11:35 **Therapeutic and diagnostic nanoparticle-based solutions for overcoming biological barriers**
GABRIELE MAIORANO (CNR-NANOTEC, Lecce)
- 11:35 - 11:55 **Applications of Supramolecular Chemistry to Pharmaceutical Biotechnology and Nanomedicine**
ANDREA RAGUSA (University of Salento, DiSTeBA, Lecce)
- 11:55 - 12:15 **Comparative (trans-kingdom) functional genomics in bio(nanotechno)logy**
TIZIANO VERRI (University of Salento, DiSTeBA, Lecce)
- 12:15 - 12:30 **Q&A Session**
- 12:30 -14:00 **Lunch Pause and Poster Session**
- 14:00 - 14:20 **Atomic Force Microscope as a tool for nanoscale diagnostics and treatment validation**
ROBERTO RAITERI (University of Genoa, DIBRIS, Genoa)
- 14:20 - 14:40 **Advanced sensing platforms for environment monitoring in 3D cell systems**
LORETTA L. DEL MERCATO (CNR-NANOTEC, Lecce)
- 14:40 - 15:00 **Chiral Plasmonic Biosensors**
MASSIMO CUSCUNÀ (CNR-NANOTEC, Lecce)
- 15:00 - 15:15 **Q&A Session**
- 15:15 - 15:45 **Coffee Break and Poster Session**
- 15:45 - 16:05 **Microfluidic Lab-on-a-Chip Technologies for Nano-formulation Production**
VALENTINA ARIMA (CNR-NANOTEC, Lecce)
- 16:05 - 16:25 **Rebuilding tissues: the proper house for each cell**
FRANCESCA GERVASO (CNR-NANOTEC, Lecce)
- 16:25 - 16:45 **Microfluidics and sensing tools for immunotherapy**
FRANCESCO FERRARA (CNR-NANOTEC, Lecce)
- 16:45 - 17:00 **Q&A Session**
- 17:00 - 17:10 **Conclusions**

CHAIRS

STEFANO LEPORATTI (CNR NANOTEC, LECCE)
JOSÉ LUIS TOCA-HERRERA (BIOPHYSICS INSTITUTE, BOKU UNIVERSITY, VIENNA)

ORGANISING COMMITTEE

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