



INTERNATIONAL SCHOOL OF NANOMEDICINE

5th Workshop

"ADVANCED NANO- AND MICRO-STRUCTURED MATERIALS FOR MEDICAL APPLICATIONS"

20-25 July, 2022

Erice (Sicily) - Italy

Directors of the Workshop
Francesca RE &
Giuseppe CHIRICO

Directors of the School
Mauro FERRARI &
Massimo MASSERINI

Director of the Centre and
President of the Foundation
Antonino ZICHICHI

PRELIMINARY PROGRAM

WEDNESDAY July 20, 2022

ARRIVALS

THURSDAY July 21, 2022

Opening remarks on behalf of School Directors: Mauro Ferrari & Massimo Masserini

Welcome by Workshop Directors: Francesca Re & Giuseppe Chirico

SESSION I: Material for Imaging

- **Monica Carril** (Biofisika Institute (CSIC, UPV/EHU), Leioa, Bizkaia): *Nanoparticles as contrast agents for Magnetic Resonance Imaging.*
- **Sanchez Carlos** (Donostia International Physics Center, San Sebastian): *Probing nanomaterials in biological environments by X-ray techniques.*
- + oral communications from participants

FRIDAY July 22, 2022

SESSION II: Drug Delivery

- **Decuzzi Paolo** (Laboratory of Nanotechnology for Precision Medicine at the Italian Institute of Technology, Genova): *Hierarchically-organized drug delivery systems for the treatment of cancer, metabolic and chronic inflammatory diseases.*
- **Salassa Luca** (Donostia International Physics Center, San Sebastian): *Biomaterials for the activation and delivery of metallodrugs.*
- + oral communications from participants

SATURDAY July 23, 2022

SESSION III: Biosensing

- **Grzelczak Marek** (Center for Materials Physics (CSIC) and Donostia International Physics Center, San Sebastian): *Nanoparticles-bases sensor for infectious diseases.*
- **Heymann Michael** (Intelligent Biointegrative Systems, Institute of Biomaterials and Biomolecular Systems, University of Stuttgart): *Biomedical Lab-on-a-Tip systems engineering.*
- + oral communications from participants

SOCIAL DINNER

SUNDAY July 24, 2022

SESSION IV: Smart Materials

- **Nuhn Lutz** (Max Planck Institute for Polymer Research): *Macromolecule-based Strategies for Enhancing Immunotherapy Responses.*
- **Re Francesca** (University of Milano Bicocca): *Biochemical requirements of functionalized liposomes for crossing the Blood-Brain Barrier.*
- **Netti Paolo** (Istituto Italiano di tecnologia- IIT and University of Naples Federico II): *Cell instructive materials for in vivo and in vitro applications.*
- **Chirico Giuseppe** (BioNanomedicine Center Nanomib): *Laser Microfabrication for implantable devices.*

Closing Remarks (Re & Chirico)

MONDAY July 25, 2022

DEPARTURES

APPLICATION:

Application form and information may be found at the web link: <http://nanomib.wixsite.com/nanomedicineschool>

For further information: nanomedicine.school@unimib.it