



# 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](mailto:nanomedicine.school@unimib.it)