

International SUMMERSCHOOL PROGRAMME



ALMA MATER STUDIORUM
UNIVERSITY OF BOLOGNA

CHEMICAL AND GENOMICS-BASED STRATEGIES IN THE DISCOVERY OF NOVEL DRUG TARGETS BOLOGNA 26 JUNE – 30 JUNE 2022 School Director - Prof Santi Mario Spampinato

Program

Monday, 26 June

15,45-16,00 Registration

Opening lecture

16,00-17,30 **Stefano Rusconi (DIBIC - University of Milan)**
Strategies against SARS-CoV-2: drugs, vaccines and monoclonal antibodies

Tuesday, 27 June

9,30-11,00 **Elena Camporesi (Department of Psychiatry and Neurochemistry, University of Gothenburg)**
Biomarkers for neurodegenerative diseases and their use in supporting drug discovery and clinical trials.

11,00-11,15 Break

11,15-12,30 **Monica Baiula (Dept. Pharmacy and Biotechnology - University of Bologna)**
Targeting integrin pathways: mechanisms and therapeutic implications.

14,30-16,00 **Nico Mitro (University of Milano - School of Pharmacy)**
Strategies to unravel, validate and confirm a novel mitochondrial regulator (Part I)

16,00-16,15 Break

16,15-17,30 **Nico Mitro (University of Milano - School of Pharmacy)**
Strategies to unravel, validate and confirm a novel mitochondrial regulator (Part II)

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Wednesday, 28 June

- 9,30-13,00 Laboratory practical experience - **Monica Baiula-Andrea Bedini**
- 14,30- 16,00 **Filippo Menolascina (Centre for Synthetic and Systems Biology, The University of Edinburgh)**
In-vivo gene network modelling and control in microfluidics: new perspectives on combination therapy optimization
- 16,00-17,30 **Maurizio Pellecchia (Center for Molecular and Translational Medicine UCR School of Medicine, Riverside USA)**
Targeting Eph receptors for the design on novel therapies in cancer and neurodegeneration

Thursday, 29 June

- 9,30-11,00 **Andrea Bedini (Dept. Pharmacy and Biotechnology - University of Bologna)**
Quantitative Systems Pharmacology models to investigate the multidimensional complexity of opioid receptors: an innovative avenue for improved analgesics
- 11,00-11,15 Break
- 11,15-12,45 **Silvia Maioli (Dept of Neurobiology, Care Sciences, and Society. Karolinska Institutet)**
ApoE and cholesterol in Alzheimer's disease: from basic mechanisms to novel therapeutic strategies
- 12,45-13,00 Laboratory experience results: comments and discussion
- 14,30-16,00 **Maurizio Crestani (University of Milano - School of Pharmacy)**
Genetic and epigenetic pathways in drug discovery. Part 1
- 16,00-16,15 Break
- 16,15-17,30 **Maurizio Crestani (University of Milano - School of Pharmacy)**
Genetic and epigenetic pathways in drug discovery. Part 2.

Friday, 30 June

- 9,30 -11,00 **Giorgio Spedicato (Department of Legal Studies - University of Bologna)**
Intellectual property and biotechnological innovation
- 11,00-11,15 Break
- 11,15-13,00 **Manuela Bartolini (Dept. Pharmacy and Biotechnology - University of Bologna)**
Investigation of beta-amyloid aggregation and inhibition by a multimethodological approach
- 13,15-13,45 **Written examination**

