

# International SUMMERSCHOOL

## PROGRAMME



### CHEMICAL AND GENOMICS-BASED STRATEGIES IN THE DISCOVERY OF NOVEL DRUG TARGETS BOLOGNA 1 – 5 JULY 2024

School Director – Gabriele Campana

#### Program

##### Monday, 1 July

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, 2 July

14,30- 16,00 **Lucia Bandiera (School of Engineering, Centre for Engineering Biology - The University of Edinburgh)**  
Tackling chronic diseases: from clinical data to optimal drug therapy

16,00-16.15 Break

16,15-17,30 **Matteo Masetti (Dept. Pharmacy and Biotechnology - University of Bologna)**  
Probing Allosteric Communication with Combined Molecular Dynamics Simulations and Network Analysis

##### Wednesday, 3 July

9,30-13,00 Laboratory practical experience - **Monica Baiula-Andrea Bedini**

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.

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ALMA MATER STUDIORUM  
UNIVERSITY OF BOLOGNA

## Thursday, 4 July

- 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 **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)

## Friday, 5 July

- 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
- 11,15-13,00 **Monica Baiula (Dept. Pharmacy and Biotechnology - University of Bologna)**  
Targeting integrin pathways: mechanisms and therapeutic implications.
- 14-15.30 **Giorgio Spedicato (Department of Legal Studies - University of Bologna)**  
Intellectual property and biotechnological innovation
- 15,45-16,15 **Written examination**



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