

# International SUMMERSCHOOL PROGRAMME



ALMA MATER STUDIORUM  
UNIVERSITY OF BOLOGNA

## CHEMICAL AND GENOMICS-BASED STRATEGIES IN THE DISCOVERY OF NOVEL DRUG TARGETS BOLOGNA 27 JUNE – 1 JULY 2022

School Director - Prof Santi Mario Spampinato

### Program

#### Monday, 27 June

- 13,00-14,15 Registration
- 14,15-14,30 Opening Address  
**Santi Spampinato (Dept. Pharmacy and Biotechnology - University of Bologna)**

#### Opening lecture

- 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
- 16.15-18.00 **Stefano Rusconi – Stefano Rusconi (DIBIC- Sacco Hospital)**  
Strategies against SARS-CoV-2: drugs, vaccines and monoclonal antibodies.

#### Tuesday, 28 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
- 11,15-12,30 **Elena Camporesi (Department of Psychiatry and Neurochemistry, University of Gothenburg)**  
Biomarkers for neurodegenerative diseases and their use in supporting drug discovery and clinical trials.
- 14,30-15,45 **Giorgio Spedicato (Department of Legal Studies - University of Bologna)**  
Intellectual property and biotechnological innovation
- 15,45-16,00 Break
- 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

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## Wednesday, 29 June

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

## Thursday, 30 June

- 9,30-11,00 **Jesús Giraldo (Autonomous University of Barcelona - UAB · Institute of Neuroscience)**  
Molecular modelling and dynamic simulations of G protein-coupled receptors: The mu-opioid receptor as a paradigm of pharmacological complexity"
- 11,00-11,15 Break
- 11,15-12,45 **Monica Baiula (Dept. Pharmacy and Biotechnology - University of Bologna)**  
Emerging therapeutics opportunities for integrin ligands
- 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 (1): Nuclear receptors as pharmacological targets
- 16,00-16,15 Break
- 16,15-17,30 **Maurizio Crestani (University of Milano - School of Pharmacy)**  
Genetic and epigenetic pathways in drug discovery (2): Epigenetics of energy metabolism in diabetes

## Friday, 1 July

- 9,30 -11,00 **Elisa Uliassi (Dept. Pharmacy and Biotechnology - University of Bologna)**  
Light-activated therapeutic agents: an innovative approach in drug discovery
- 11,00-11,05 Break
- 11,05-12,15 **Anita Hansson (Institute of Psychopharmacology, Central Institute of Mental Health, University of Heidelberg, Medical Faculty Mannheim, Germany)**  
Molecular mechanism in reward and alcohol addiction
- 12,15-13,00 **Francesco Giannone (Institute of Psychopharmacology, Central Institute of Mental Health, University of Heidelberg, Medical Faculty Mannheim, Germany)**  
Habit formation in alcohol addiction
- 13,15-13,45 **Written examination**

