

International SUMMERSCHOOL PROGRAMME



ALMA MATER STUDIORUM
UNIVERSITY OF BOLOGNA

CHEMICAL AND GENOMICS-BASED STRATEGIES IN THE DISCOVERY OF NOVEL DRUG TARGETS

BOLOGNA 13 – 17 JULY 2020

School Director - Prof Santi Mario Spampinato

Program Monday, 13 July

- 15,15-15,30 **Santi Spampinato (Dept. Pharmacy and Biotechnology - University of Bologna)**
Opening Address
- 15,30-16,30 **Opening lecture**
Maurizio Recanatini (Dept. Pharmacy and Biotechnology - University of Bologna)
Networks and drug discovery

Tuesday, 14 July June

- 9,00-10,30 **Enrico Gherzi (Miltenyi Biotech, Bologna)**
From biotechnology to cell & gene therapy: the history of a translational company
- 10,30-10,45 Break
- 10,45-12,15 **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 optimisation
- 14,00-15,00 **Monica Baiula (Dept. Pharmacy and Biotechnology - University of Bologna)**
Integrin-based strategies for the development of new drugs: current status and future perspectives
- 15,00-15,15 Break
- 15,15-16,15 **Andrea Bedini (Dept. Pharmacy and Biotechnology - University of Bologna)**
Biased agonism, low intrinsic efficacy, combination treatment: which avenue for more effective and safer opioid analgesics
- 16,15-16,30 Break
- 16,30-18,00 **Stefano Rusconi (DIBIC- Sacco Hospital)**
Pharmacological strategies against SARS-CoV-2

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Wednesday, 15 July

- 9,00-10,30 **Liesbeth de Lange (Division of Systems Biomedicine and Pharmacology -Leiden University)**
On predicting Central Nervous System (CNS) drug distribution and effects with special emphasis on the physiologically-based approaches
- 10,30 -10,45 Break
10,45-12,00 **Elena Camporesi Goteborg univ.**
Biomarkes for Alzheimer's disease and their potential use in drug discovery and clinical trial
- 15,00- 16,15 **Paolo D'Avino (Dept. Of Pathology- University of Cambridge)**
Combining omics, imaging, and biochemistry to study cell division and its de-regulation in cancer cells
- 16,15-16,30 Break
16,30-18,00 **Maurizio Pellecchia (Center for Molecular and Translational Medicine University of California Riverside School of Medicine)**
Covalent inhibitors of protein-protein interactions targeting Lys, Tyr, or His residues

Thursday, 16 July

- 9,30-11,00 **Giorgio Spedicato (Department of Legal Studies - University of Bologna)**
Intellectual property and biotechnological innovation
- 11,00-11,15 Break
11,15-12,45 **Andrea Banfi (Department of Biomedicine, University of Basel)**
Therapeutic Vascularization in Regenerative Medicine
- 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
16,15-18,00 **Nico Mitro (University of Milano - School of Pharmacy)**
Strategies to unravel, validate and confirm a novel mitochondrial regulator (Part II)

Friday, 17 July

- 9,30 -11,00 **Maurizio Crestani (University of Milano - School of Pharmacy)**
Genetic and epigenetic pathways in drug discovery (1): Nuclear receptors as pharmacological targets
- 11,00-11,15 Break
11,15-13,00 **Maurizio Crestani (University of Milano - School of Pharmacy)**
Genetic and epigenetic pathways in drug discovery (2): Epigenetics of energy metabolism in diabetes
- 13,30-14,30 **Written examination**

