

International SUMMERSCHOOL PROGRAMME



ALMA MATER STUDIORUM
UNIVERSITY OF BOLOGNA

CHEMICAL AND GENOMICS-BASED STRATEGIES IN THE DISCOVERY OF NOVEL DRUG TARGETS BOLOGNA 21 JUNE – 25 JUNE 2021

School Director - Prof Santi Mario Spampinato

Program

Monday, 21 June

- 9,00– 9,25 Registration
- 9.25 -9,30 Opening Address **Santi Spampinato (Dept. Pharmacy and Biotechnology - University of Bologna)**

Opening lecture

- 9,30 -11,00 **Nico Mitro (University of Milano - School of Pharmacy)**
Functional genomics screening strategy to identify novel mitochondrial regulators: the case of Zc3h10 (Part I)
- 11,00-11,15 Break
- 11,15-12,45 **Nico Mitro (University of Milano - School of Pharmacy)**
Functional genomics screening strategy to identify novel mitochondrial regulators: the case of Zc3h10 (Part II)
- 14,30-16,00 **Giorgio Spedicato (Department of Legal Studies - University of Bologna)**
Intellectual property and biotechnological innovation

Tuesday, 22 June

- 9,00-10,30 **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
- 10,30-10,45 Break
- 10,45-12,30 **Stefano Rusconi (University of Milano DIBIC Luigi Sacco)**
Strategies against SARS-CoV-2: drugs, vaccines and monoclonal antibodies.
- 14,30- 15.45 **Monica Baiula (Dept. Pharmacy and Biotechnology - University of Bologna)**
Anti-integrin therapy: new molecular insights and potential clinical applications of integrin ligands
- 15,45 -16,00 Break
- 16,00-17,30 **Enrico Gherzi (Miltenyi Biotech, Bologna)**
From biotechnology to cell & gene therapy: the history of a translational company

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Wednesday, 23 June

- 9,30-11,00 **Elena Camporesi (Department of Psychiatry and Neurochemistry, University of Gothenburg)**
Biomarkers for Alzheimer's disease and their use in supporting drug discovery and clinical trials".
- 11,15- 11,30 Break
- 11,30- 13,00 **Jesús Giraldo (Autonomous University of Barcelona - UAB · Institute of Neuroscience)**
G Protein-Coupled Receptor Oligomerization: Biological Complexity and Therapeutic Opportunity
- 15,30- 17,00 **Andrea Bedini (Dept. Pharmacy and Biotechnology - University of Bologna)**
Biased agonism, low intrinsic efficacy or combination treatments? Molecular pathway analysis to identify the most promising avenue for more effective and safer analgesics
- 17,00-17,15 Break
- 17,15-19,00 **Maurizio Pellecchia (Center for Molecular and Translational Medicine University of California Riverside School of Medicine)**
Targeting pharmacologically viable protein-protein interactions via combinatorial library screening (HTS by NMR) and Lys covalent agents

Thursday, 24 June

- 9,30-11,00 **Pier Luigi Martelli (Dept. Pharmacy and Biotechnology - University of Bologna)**
Computational annotation of "Omics" data
- 11,00-11,15 Break
- 11,15-12,45 **Maria Laura Bolognesi (Dept. Pharmacy and Biotechnology - University of Bologna)**
PROteolysis TARgeting Chimeras (PROTACs): new horizons in the development of drugs and therapeutic modalities

Friday, 25 June

- 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
- 13,00-13,30 **Written examination**

