

International SUMMERSCHOOL PROGRAMME



ALMA MATER STUDIORUM
UNIVERSITY OF BOLOGNA

CHEMICAL AND GENOMICS-BASED STRATEGIES IN THE DISCOVERY OF NOVEL DRUG TARGETS BOLOGNA 24 JUNE – 28 JUNE 2019 School Director - Prof Santi Mario Spampinato

Program

Monday, 24 June

- 14,00-14,30 Registration
- 14,30-14,45 Opening Address **Santi Spampinato (Dept. Pharmacy and Biotechnology - University of Bologna)**

14,45-16,15

Opening lecture

Jesús Giraldo (Autonomous University of Barcelona - UAB · Institute of Neuroscience)

G Protein-Coupled Receptor Oligomerization: Biological Complexity and Therapeutic Opportunity

Tuesday, 25 June

- 9,00-10,30 **Jurgen Kraus (Department of Pharmacology and Toxicology, University of Magdeburg)**
Effects of opioids on immune functions
- 10,30-10,45 Break
- 10,45-11,45 **Monica Baiula (Dept. Pharmacy and Biotechnology - University of Bologna)**
Integrin-based strategies for the development of new drugs: current status and future perspectives
- 11,45- 12,00 Break
- 12,00-13,00 **Andrea Bedini (Dept. Pharmacy and Biotechnology - University of Bologna)**
Biased agonists targeting opioid receptors: a promising avenue for more effective and safer analgesics
- 14,30-15,45 **Giorgio Spedicato (Department of Legal Studies - University of Bologna)**
Intellectual property and biotechnological innovation
- 15,45-16,00 Break
- 16,00-17,15 **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

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Wednesday, 26 June

- 9,30-13,00 Laboratory practical experience - **Monica Baiula-Andrea Bedini**
- 14,30- 15,30 **Anna Minarini (Dept. Pharmacy and Biotechnology - University of Bologna)**
Polyamines in drug discovery
- 15,30-15,45 Break
15,45-17,00 **Miltenyi Biotech (Bologna)**
From biotechnology to cell & gene therapy: the history of a translational company

Thursday, 27 June

- 9,30-11,00 **Wolfgang Sommer (Institute of Psychopharmacology, Central Institute of Mental Health, University of Heidelberg, Medical Faculty Mannheim, Germany)**
Developing better treatments for relapse prevention in alcohol addiction using a systems biology approach
- 11,00-11,15 Break
- 11,15-12,45 **Anita Hansson (Institute of Psychopharmacology, Central Institute of Mental Health, University of Heidelberg, Medical Faculty Mannheim, Germany)**
Neurobiological mechanisms in alcoholism: Translational studies in humans and rodents
- 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
- 15,30-15,45 Break
15,45-17,00 **Maurizio Crestani (University of Milano - School of Pharmacy)**
Genetic and epigenetic pathways in drug discovery (2): Epigenetics of energy metabolism in diabetes

Friday, 28 June

- 9,30 -11,00 **Nico Mitro (University of Milano - School of Pharmacy)**
Strategies to unravel, validate and confirm a novel mitochondrial regulator (Part I)
- 11,00-11,15 Break
- 11,15-12,45 **Nico Mitro (University of Milano - School of Pharmacy)**
Strategies to unravel, validate and confirm a novel mitochondrial regulator (Part II)
- 13,00-13,30 **Written examination**

