

International SUMMERSCHOOL

PROGRAMME



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

BOLOGNA 23 – 27 JUNE 2025

School Director – Gabriele Campana

Program

Monday, 23 June

15,45-16,00 Registration

Opening lecture

16,00-17,30 **Stefano Rusconi (DIBIC - University of Milan)**
Strategies against HIV-1: drugs with new mechanisms of action and options for heavily treatment experienced PWH

Tuesday, 24 June

9,30-11,00 **Monica Baiula (Dept. Pharmacy and Biotechnology - University of Bologna)**
Integrins targeting and beyond: molecular mechanisms and therapeutic opportunities.

11,00-11,15 Break

11,15-13,00 **Andrea Bedini (Dept. Pharmacy and Biotechnology - University of Bologna)**
Exploring the multidimensional complexity of opioid receptors to develop improved therapeutics: From innovative peptides to Quantitative Systems Pharmacology platforms

14,30- 16,00 **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

16,00-16.15 Break

16,15-17,30 **Filippo Menolascina (Centre for Synthetic and Systems Biology, The University of Edinburgh)**
Drug discovery in the era of ChatGPT: accelerating R&D via Large Language Models and agentic AI

Wednesday, 25 June

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

14,30-16,00 **Maurizio Crestani (University of Milano - School of Pharmacy)**
Epigenome modifiers regulating energy metabolism in "diabesity" Part 1

16,00-16,15 Break

16,15-17,30 **Maurizio Crestani (University of Milano - School of Pharmacy)**
Epigenome modifiers regulating energy metabolism in "diabesity" Part 2.

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ALMA MATER STUDIORUM
UNIVERSITY OF BOLOGNA

Thursday, 26 June

- 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
- 11,15-12,45 **Eleonora Diamanti (Dept. Pharmacy and Biotechnology - University of Bologna)**
Use of innovative technologies to address the daunting Antimicrobial Resistance problem
- 12,45-13,00 Laboratory experience results: comments and discussion
- 14,30-16,00 **Ana Martinez (Centro de Investigaciones Biologicas-CSIC Madrid)**
From the bench to the clinical trials in protein kinase inhibitors: A step forward for ALS future therapy
- 16,00-16,15 Break
- 16,15-17,30 **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

Friday, 27 June

- 9,30-11,00 **Giorgio Spedicato (Department of Legal Studies - University of Bologna)**
Intellectual property and biotechnological innovation
- 11,00-11,15 Break
- 11,15-13,00 **Lucia Bandiera (School of Engineering, Centre for Engineering Biology - The University of Edinburgh)**
Tackling chronic diseases: from clinical data to optimal drug therapy
- 13.15 **Written examination**



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