

SYSTEMS THERAPEUTIC DRUG DISCOVERY

**MONDAY
FEBRUARY 17 2025
12:00**

FORTH CENTRAL BUILDING,
GEORGIOS LIANIS AUDITORIUM, HERAKLION

IMBB INVITED LECTURES IN THEMATIC AREA OF PHARMACOLOGY

Recent advances on translational research, based on the fields of molecular and cell biology, genetics, as well as systems biology and pharmacology, have led to a new era of drug discovery and development. Novel biotechnological tools envision to radically change the therapeutic approaches of diseases, now referred to as 'systems therapeutics'. Systems therapeutics, focusing on disease pathology rather than physiological processes, is targeting malfunctional biological networks instead of the conventional strategies that target specific proteins or signaling pathways which has resulted in drugs with limited efficacy. Furthermore, these therapeutics will advance precision medicine, offering personalized therapies to individual patient characteristics.

The systems therapeutic relies on mathematical modeling and pharmacogenomic information utilizing the artificial intelligence's capability to integrate knowledge from different fields. These holistic approaches promise to radically evolve the drug development process and accelerate the path towards personalized medicine, improving the quality of life for patients as well reducing global disease burden.

IMBB will host two lectures from pioneers in the field of systems therapeutics to discuss the most recent advances in this new and revolutionary approach for drug discovery.



FORTH

INSTITUTE OF MOLECULAR BIOLOGY & BIOTECHNOLOGY

www.imbb.forth.gr

Contact

Ms Rodanthi Lasithiotaki, +30 2810 391106, rodanthi@imbb.forth.gr

SPEAKERS



Professor Emmanouil Dermitzakis

CEO AND CO-FOUNDER, ANTITHESIS THERAPEUTICS,
GENEVA, SWITZERLAND

12:00
**SYSTEMS THERAPEUTICS TO
REVOLUTIONIZE DRUG DISCOVERY**



Professor Nicholas Katsanis

CO-FOUNDER, ANTITHESIS THERAPEUTICS,
MIAMI, FLORIDA, USA

13:30
ONE PLUS ONE EQUALS ZERO