

1st International Symposium on Advanced Drug Discovery



Pioneering Peptide-Based and Small Molecule Innovations in Therapeutics, Diagnostics, and Therapostics

April 19-21, 2024
Scientific and Technological Park of Epirus
Ioannina, Greece









19/04/2024

9:00 Arrival and Registration

9:30 Welcome and Opening Remarks

Alexandros Kachrimanis

Governor of Epirus

Anna Batistatou

Rector, Professor, Department of Medicine, University of Ioannina, Greece

Andreas Tzakos

Professor, Department of Chemistry, University of Ioannina, Greece

PART ONE: TALKS FROM INVITED SPEAKERS

10:00 The cycle from bench to bedside and repeat: What have we learnt in the last 30 years.

Vasso Apostolopoulos, Distinguished Professor, Institute for Health and Sport, Victoria University, Australia.

10:45 Peptide Mimetics AT1R antagonists.

Thomas Mavromoustakos, Professor, Department of Chemistry, National and Kapodistrian University of Athens, Greece

11:15 Myelin peptides in multiple sclerosis: The basis for development of novel vaccines.

Ioannis Matsoukas, Professor, NewDrug PC, Patras Science Park, Greece

11:35 Development of mitoxantrone-GnRH conjugates for the treatment of hormone-dependent cancer.

Theodore Tselios and Georgia Biniari, Professor/Researcher, Department of Chemistry, University of Patras, Greece

11:55 Coffee Break







12:25	Peptide Analogues of the Integrin Receptor αIIbβ3 as Potent Antiplatelet Agents. Alexandros Tselepis, Professor, Department of Chemistry, University of Ioannina, Greece
12:45	Molecular targeting and theranostic applications for cancer (focus on PSMA targeting). Christos Liolios, Scientific Researcher, Institute of Pharmaceutical Research & Technology (IFET), Athens, Greece
13:05	Computational Drug Repurposing utilizing Interaction Fingerprint data and Machine Learning techniques. Vassilios Panagiotopoulos, Researcher, Cloudpharm PC, Athens, Greece
13:25	Development of peptide carriers bearing the -Lys-Aib-X motif and their potential applications. Vassilios Tsikaris, Professor, Department of Chemistry, University of Ioannina, Greece
13:45	Solid-Phase Synthesis of Thiol-containing compounds as a tool in Peptide-Based Drug Development. Spyridon Mourtas, Assistant Professor, Department of Chemistry, University of Patras, Greece
14:05	Light Lunch Break
15:05	Liberty Blue 2.0 Microwave Peptide Synthesizer. The next generation in Peptide synthesis for cleaner and longer peptides with a new level of robustness based on High Efficiency Solid Phase Peptide synthesis (HE-SPPS). Ioannis Prionistis, Chemist, Northern Greece Sales and Support

15:20 NMR structural studies of bioactive compounds.

Manager, Hellamco SA.

Ioannis Gerothanassis, Professor, Department of Chemistry, University of Ioannina, Greece

15:40 Environmed: a computational platform for ecotoxicity related predictions of chemical compounds.

Evangelos Tsoukas, Researcher, Cloudpharm PC, Athens, Greece







- 16:00 Effect of sequence reversal on α-helical protein folding.

 Efstratios Mylonas, Assistant Professor, Department of Chemistry, University of Ioannina, Greece
- 16:20 Structure-based modeling of the gut bacteria-host protein interactome.

 Christos Chasapis, Researcher, Institute of Chemical Biology, National Hellenic Research Foundation, Athens, Greece
- 16:40 Probing the Interactions between Irbesartan and Drug Carrier within Lipid Bilayers.

 Eleni Chontzopoulou, Researcher, Cloudpharm PC, Athens, Greece
- 17:00 Evaluation of the interaction of Cu(II) with peptide models of tau protein. Contributing to its role in Alzheimer disease.

 Gerasimos Malandrinos, Professor, Department of Chemistry, University of Ioannina, Greece

PART TWO: FLASH TALKS FROM YOUNG RESEARCHERS

- 17:20 QM/MM studies on the relay system of ACE2.

 Nikitas Georgiou, PhD Candidate, Department of Chemistry,

 National and Kapodistrian University of Athens, Greece
- 17:25 Docking studies of drugs acting on Myasthenia Gravis.

 Eleftherios Massios, MSc student, Department of Chemistry,
 National and Kapodistrian University of Athens, Greece
- 17:30 Extracting possible peptide structures from Epirus Plants.

 Ektoras Apostolou, MSc student, Department of Chemistry,

 National and Kapodistrian University of Athens, Greece
- 17:35 NMR structural characterization of manan (polymannose) conjugate with the myelin oligodendrocyte glycoprotein 35-55 epitope (MOG35-55).

 Nikoleta Zoupanou, MSc student, Department of Chemistry, National and Kapodistrian University of Athens, Greece
- 17:40 Novel Theragnostic Photosensitizers for pH-Responsive Therapy and Lipid Droplet Targeted Cancer Treatment.

 Stavroula Kyrkou, PhD Candidate, Department of Chemistry, University of Ioannina, Greece







PART THREE: ROUND TABLE

17:45 Round table for the Greek Peptide Society

18:30 DAY ONE: CLOSING REMARKS

20/04/2024

8:50 Arrival and Registration	Arrival and Registrati	ion
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9:20 Welcome and Opening Remarks

Andreas Tzakos

Professor, Department of Chemistry, University of Ioannina, Greece

TALKS FROM INVITED SPEAKERS

- 9:30 Precision diagnostics in breast cancer with focus on new age diagnostics and novel biomarkers for advanced breast cancer.

 Timothy Crook, BSc PhD MBBS FRCP, Department of Brain Sciences, Hammersmith Hospital, Imperial College London, London, UK
- 10:10 Innovative methods to tackle gliomas.

Nelofer Syed, Professor, Department of Brain Sciences, Hammersmith Hospital, Imperial College London, London, UK

10:50 Novel promising agents to combat glioblastoma.

Georgios Alexiou, Associate Professor, Department of Neurosurgery, School of Medicine, University of Ioannina, Greece

11:10 Clinical Drug Development.

Gregory Sivolapenko, Professor, Laboratory of Pharmacokinetics, Department of Pharmacy, University of Patras, Greece

11:30 Coffee Break







13:30	DAY TWO: CLOSING REMARKS
13:20	A Tribute to the 14-year-old Aggelos.
13:05	KMT2C loss leads to signaling rewiring, cell cycle adaptation and sensitivity to PLK1 inhibition. Theodoros Rampias, Researcher C, Biomedical Research Foundation, Academy of Athens, Greece
12:50	Targeting MYC-MAX complex formation: Establishment of an in vitro cell-free assay and identification of novel inhibitors. Ervelina Dalani, Researcher, Biomedical Research Institute, Foundation for Research and Technology, Greece
12:30	Surgical management of glioblastoma. Recent advancements and future trends. Spyridon Voulgaris, Professor, Department of Neurosurgery, School of Medicine, University of Ioannina, Greece
12:10	Metabolomics and multi-omics in the discovery of disease biomarkers. Emmanuel Mikros, Professor, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, National and Kapodistrian University of Athens, Greece
12:00	visualization and spatial distribution of compounds provide mechanistic insight. A tool for Glioma Biomarkers. Ioannis Prionistis, Chemist, Northern Greece Sales and Support Manager, Hellamco SA.

21/04/2024

8:00 Arrival

DISCUSSION, REPORTING & EXPLOITATION ON THE PROTECT-991 PROJECT RESULTS



