

10th International Peptide Conference of the Bulgarian Peptide Society

(10th Anniversary Symposium of the Bulgarian Peptide Society)

Preliminary Scientific Programme

September 1–4, 2023, Varna, Bulgaria

Friday, September 1st 2023

14.00 – 16.30 Registration

16.30 – 17.00 Opening Ceremony

Chairperson of the Organizing Committee

President of the Bulgarian Peptide Society

Rector of the Medical University – Varna

17.00 – 19.00 Session 1: Plenary Lectures

Professor Diana Imhof, PhD (Rheinische Friedrich-Wilhelms-University of Bonn, Germany)

Talk title: “How peptides help to understand transient heme binding to proteins”

Professor Illana Gozes, PhD (The Lily and Avraham Gildor Chair for the Investigation of Growth Factors; Director, the Elton Laboratory for Molecular Genetics and Biochemistry, Israel)

Talk title: “To be applied”

20.00 – 22.00 Welcome Cocktail

Saturday, September 2nd 2023

9.00 – 10.40 Session 2: Synthesis of Peptides, Amino Acids and Proteins

Assoc. Professor Andreas Tzakos, PhD (Department of Chemistry, University Ioannina, Greece)

Professor Anna Maria Papini, PhD (Director, PeptLab of the University of Florence, Italy)

Professor Paula Gomes, PhD (Department Chemistry and Biochemistry, University of Porto, Portugal)

10.40 – 11.10 Coffee Break

11.10 – 12.30 Session 3: Peptide Synthesis technology & Green Peptide Chemistry

Professor Peter Gmeiner, PhD (Department of Chemistry and Pharmacy, Chair of Medicinal Chemistry, Friedrich Alexander University Erlangen-Nürnberg, Germany)

Talk title: *“Neurotensin-based GPCR ligands”*

Dr. Toni Kühl (Rheinische Friedrich-Wilhelms-University of Bonn, Germany)

Talk title: *“Fe(III) heme-peptide complexes with peroxidase-like activity as heterogeneous biocatalysts”*

Dr. Marcus Gastreich (BioSolveIT, GmbH, St. Augustin, Germany)

Talk title: *“Practical Chemical Space Navigation in Trillions of On-Demand Molecules”*

12.30 – 14.00 Lunch & Exhibition

14.00 – 15.00 Session 4: Peptide Mimetics, Conjugates and Peptide Nucleic Acids

Assoc. Prof. Tamara I. Pajpanova, PhD (Institute of Molecular Biology “Roumen Tsanev” at the Bulgarian Academy of Sciences, Bulgaria)

Talk title: *“Impact of arginine mimetics in the discovery and development of biologically active peptides”*

Assoc. Prof. Veronika A. Karadjova, PhD (University of Chemical Technology and Metallurgy, Sofia, Bulgaria)

Talk title: *“Synthesis and characterization of new metal complexes with peptide ligand”*

Assoc. Prof. Stanislava P. Vladimirova (University of Chemical Technology and Metallurgy, Sofia, Bulgaria)

Talk title: *“Synthesis and biological studies of new peptides and bioconjugates with analgesic and anti-inflammatory activity”*

15.00 – 17.00 Workshop

Dr. Marcus Gastreich (BioSolveIT, ST. Augustin, Germany)

Topic: *“Using of SeeSAR for estimation of biological activity: A practical application”*

17.00 – 17.30 Coffee Break

17.30 – 18.30 Session 5: Bioactive Peptides and Peptide-based Therapeutics: Antimicrobial Peptides, Glycopeptides and Lipopeptides

Assoc. Prof. Tsvetelin K. Georgiev, PhD (Trakiya University, St. Zagora, Bulgaria)

Talk title: *“Glutathione peroxidase-4 modulation in gentamicin-induced kidney disease model in mice”*

Assoc. Prof. Tatyana A. Dzimbova, PhD (South-West University “Neofit Rilski”, Institute of Molecular Biology “Roumen Tsanev” at the Bulgarian Academy of Sciences, Bulgaria)

Talk title: *“Effect of peptidases on the action of enkephalin analogues”*

18.30 – 19.30 Poster Session and Exhibition

20.30 – 23.00 Gala Dinner

Sunday, September 3rd 2023

9.00 – 10.40 Session 6: Bioactive Peptides and Peptide-based Therapeutics: Neuropeptides, Peptide Hormones, Immunological Peptides, and Vaccines

Assoc. Prof. Nikolay T. Tzevtkov, PhD (Institute of Molecular Biology “Roumen Tsanev” at the Bulgarian Academy of Sciences, Bulgaria)

Talk title: *“Design, Synthesis, and Biological Evaluation of Neurotensin(8-13) Analogs as Dual NTS1 and NTS2 Receptor Ligands”*

Professor Atanas G. Atanasov, PhD (Ludwig Boltzmann Institute for Digital Health and Patient Safety, Medical Institute of Vienna, Austria)

Talk title: *“The International Natural Product Sciences Taskforce (INPST), an open innovation platform to invigorate the research field of natural compounds and peptides in the era of digital communications”*

10.40 – 11.10 Coffee Break

11.10 – 12.30 Session 7: Structural and Conformational Studies of Peptides

12.30 – 14.00 Lunch & Exhibition

14.00 – 15.30 Session 8: Young Researchers Lectures: Part I

Atanas Shopov, PhD (young researcher, University of Chemical Technology and Metallurgy, Sofia, Bulgaria)

Talk title: *“Synthesis and characterization of new metal complexes with peptide ligand”*

Martina I. Peeva, PhD student (Institute of Molecular Biology “Roumen Tsanev” at the Bulgarian Academy of Sciences, Bulgaria)

Talk title: *“Advanced study of antibacterial and antitumor effects of structurally different small molecules as potential cytotoxic agents against Paenibacillus larvae”*

Assistant Sirine Jaber, PhD (young researcher, University of Chemical Technology and Metallurgy, Sofia, Bulgaria)

Talk title: *“Synthesis and characterization of new analogues of (KLAKLAK)₂ with unnatural analogues of Lys”*

15.30 – 16.30 Poster Session and Exhibition

Session 9: Young Researchers Lectures: Part II

Nora G. Angelova, PhD student (University of Chemical Technology and Metallurgy, Sofia, Bulgaria)

Talk title: *“Synthesis and characterization of new analogues of aurein 1.2”*

16.30 – 22.30 Get together Social Programme

Monday, September 4th 2023

10.30 – 11.30 Young Scientists Awards

11.30 – 12.00 Closing Remarks & Departure

TOPICS

- Synthesis of Peptides, Amino Acids and Proteins
- Peptide Synthesis Technology & Green Peptide Chemistry
- Peptide Mimetics, Conjugates and Peptide Nucleic Acids
- Bioactive Peptides and Peptide-based Therapeutics: Antimicrobial Peptides, Glycopeptides, Lipopeptides, Neuropeptides, Peptide Hormones, Immunological Peptides and Vaccines
- Structure and Conformational Studies of Peptides and Proteins