

Program

29.10.2025

09:00-18:15	29.10.2025/ Day 1
09:00-09:45	Registration
09:45-10:00	Opening ceremony: • Welcome and Introduction • Official Greetings
10:00-11:00	Plenary lecture • Wanderings in molecular entomology: from models to disease vectors Prof. Boris Dunkov, USA
11:00-11:30	Coffee break
11:30-12:15	Scientific session 1/ Molecular targets in chronic and non-communicable diseases for new therapeutic solutions and prevention Part 1 • Keap1/Nrf2 as a drug target for prevention and treatment of chronic disease. Prof. Albena Dinkova-Kostova, Scotland, UK
12:15-13:00	• Molecular biomarkers in therapy Monitoring: Insights from Inflammatory diseases Prof. Katarzyna Komosinska-Vassev, Poland
13:00 -14:00	Lunch break
14:00-14:45	Scientific session 2/ Molecular targets in chronic and non-communicable diseases for new therapeutic solutions and prevention Part 2 • Complement in renal cancer: prognostic villain or therapeutic ally. Prof. Lubka Roumenina, France
14:45-15:30	• Matrix metalloproteinases in COPD – possible targets in the new therapy approaches. Prof. Tatyana Vlaykova, Bulgaria
15:30-16:00	Coffee break/ Poster session
16:00-16:45	Scientific Session 3/ Molecular targets in chronic and non-communicable diseases for new therapeutic solutions and prevention Part 3 • Cofactor-binding antibodies - biological functions and therapeutic innovations Assoc. Prof. Jordan Dimitrov, France
16:45-17:30	• Heparanase-1: A Multitasking protein in cancer and viral infections with therapeutic potential

	Assoc. Prof. Boyan Grigorov, France
17:30-18:15	Advanced analytics with accessible biomarkers: machine learning and latent profiles for cognitive health in midlife Prof. Andreana Haley, USA
18:15-20:15	Welcome Party/ Cocktail

30.10.2025

09:00-17:45	30.10.2025/ Day 2
09:00-09:20	Scientific Session 4/ Hydrogen sulphide in balneology H₂S (Hydrogen Sulfide) in balneology: A natural remedy from tradition to innovation Prof. Dr. Müfit Zeki Karagülle, Turkey
09:20-09:40	Biochemistry of hydrogen sulfide in thermal baths Prof. Dr. José Manuel Carbajo, Spain
09:40-10:00	Possible therapeutic use of Gökçeada peloids in rheumatic diseases Prof. Dr. Mine Karagülle, Turkey
10:00-10:20	Medical spa resort as engine of local development Prof. Dr. Aleksandar Jokic, Serbia
10:20-10:40	From Natural Healing to Future Technologies – Shaping The Future of Pediatric Care Dr. Jasmina Milovanovic, Serbia
10:40-11:00	From Tradition to Innovation: Research Activities of the Institute of Spa and Balneology Ing. Alina Huseynli and Mgr. Magdalena Vereskova, Czech Republic
11:00-11:30	Coffee break/ Poster session
11:30-12:15	Scientific Session 5/ Molecular biomarkers for personalized and precision medicine Does fountain of youth smell of sulphur: the role of protein persulfidation in lifespan extension Prof. Milos Filipovic, Scotland, UK
12:15-13:00	Metabolic dysregulation associated to aging in women revealed by a dietary challenge and metabolomics analysis

	Prof. Jarlei Fiamocini, Brazil
13:00-14:00	<i>Lunch break/ Poster session</i>
14:00-14:45	<i>Scientific Session 6/ Natural products for innovative preventive medicine and health</i> Rational design of fluorinated peptides and peptidomimetics and their application in medicinal chemistry Prof. Gregory Chaume, PhD, France
14:45-15:30	Synthesis and biological evaluation of trifluoromethylated cathepsin D and pepsin Inhibitors Prof. Julien Pytkowicz, PhD, France
15:30-16:00	<i>Coffee break/ Poster session</i>
16:00-16:30	<i>Scientific Session 7/ Translational potential of biomedical research and drug design</i> Natural Extracts and Innovative Technologies for Seafood Safety as a Public Health Strategy” Prof. Dr. Sühendan Mol Tokay, Turkey
16:30-17:00	Seafood Consumption, contaminants and cultural perceptions in the quest for safe nutrition and quality of life Assoc. Prof. Safak Ulusoy, Turkey
17:00-17:45	From test tube to tablet. Challenges and opportunities for translational research and collaboration between academia and the pharmaceutical industry in drug discovery and development. Prof. Nikolai Zhelev, Bulgaria
19:00-22:30	<i>Gala Dinner</i>

31.10.2025

09:30-17:30	31.10.2025/ Day 3
09:30-11:00	<i>Young scientist's forum</i> Oral presentations - A new formulation containing CDP-choline and plant extracts can modulate the lipid profile and redox status of healthy volunteers in relation to lifestyle habits Bogdan Hadjiev - Brain-derived neurotrophic factor in health and in neuropsychiatric disorders Danko Georgiev

	- Preventive benefits and allergenic risks of <i>Plantago lanceolata</i> in human health Gabriela Panayotova - Phytotherapeutic potential of Bulgarian flora in stress modulation Gabriela Panayotova - Role of Natural Antioxidants (Vitamin C, E, and Polyphenols) in Skin Aging Prevention Theodora Mitsinga 3D Osteological Library. From Scan to Print Stephanie Friedmann - Role of adenylyl cyclases in the development of various diseases Dimitar Kaleev - Understanding the biochemical basis of laziness behavior Dimitar Nenov - The science behind tourniquet use Ahmed Uzair Butt,
11:00-11:30	<i>Coffee break/ Poster session</i>
11:30-13:00	<i>Seminar “Science meets the business” Part 1</i> - How to make the transition from a scientific project to a valuable market product – what businesses are interested in and how to present it to them Valeri Petrov - How to validate the market and demand for specific innovations – how to reduce risks before meeting with investors - proof of Concept - risks identification Valeri Petrov - How to prepare a business proposal based on research data? - Approach to structuring a business proposal Yordan Petrov
13:00-14:00	<i>Lunch break</i>
14:00-15:30	<i>Seminar “Science meets the business” Part 2</i> - How to prepare for a meeting with a potential investor - preparation of a pitch deck

	- preparation of financial forecasts Yordan Petrov • How to create a business proposal from scientific data – protection of intellectual property Vasil Karaivanov
15:30-16:00	<i>Coffee break/ Poster session</i>
16:00-17:30	<i>Networking session</i> • Virtual Academic Collaborations: Opportunities for International Cooperation Prof. Doris Dukova, Colombia • Support Community for Mirror Classes Oral presentations
17:30	<i>Closing of the conference</i>