



Conference Programme



Conference Info



<https://one-bridge.iwaterfood.gr/>

One Health Nexus

Bridging Human, Animal, and Environmental Health Across Europe

December 8-11 2025

**Conference & Cultural Center
of the University of Patras,
Greece**



Monday December 8, 2025

Preventing Human and Zoonotic Disease Transmission: A One Health Perspective

Title

Presenters

08:30-09:30 **Registrations Opening**

09:00-09:30 **Ceremony & Welcome Addresses**

C. Bouras, Professor, Rector of University of Patras. **G. L. Adonakis**, Professor, Chair of Department of Medicine, University of Patras, **C. Stathopoulos**, Professor, Dean of Dept. of Medicine, **A. Mastorakou**, Regional Governor for Public Health, Region of Western Greece, **C. Peletidis**, Mayor of Patras, **A. Vantarakis**, Professor, Coordinator of One Bridge project

09:30-10:00 **HaDEA – Funding opportunities in health: EU4Health**

Ludmila Nistor-Mihajlova, Project Adviser, HADEA A1

10:00-11:00 **Session I1**

Chair: **Apostolos Vantarakis**, Professor of Public Health, Department of Medicine, University of Patras, Coordinator of One Bridge project

10:00-10:30 **KEYNOTE:** One Health as a Strategic Compass for European Public Health.

Agis Tsouros, International Adviser Health Policy and Strategy - Former Director at World Health Organization - Adjunct Professor, Boston School of Public Health

10:30-11:00 **KEYNOTE:** Double-Edged Viruses: Bacteriophages as Promising Antibacterials with a Hidden Side".

Panos G. Kalatzis, Assistant Professor, Faculty of Health and Medical Sciences, GLOBE Institute, Section for Evolutionary Hologenomics, University of Copenhagen, Denmark

11:00-11:30 **Coffee break**

11:30-13:00 **Session I2**

Chair: **Eleni Jelastopulu**, Professor of Public Health, Director of Lab of Public Health, Epidemiology and Quality of Life, Department of Medicine, University of Patras, Greece

11:30-12:00 **KEYNOTE:** H5N1 Avian Influenza Virus: Evolution, Pandemic Potential and One Health Perspective

Chrysostomos Dovas, Professor of Molecular Microbiology, School of Veterinary Medicine, Aristotle University of Thessaloniki, Greece

12:00-12:30 Managing human and zoonotic disease outbreak: When One Health meets our ethics

Karolina Akinosoglou, Internist-Infectiologist Associate Professor, Department of Medicine, University of Patras, Greece

12:30-13:00 Glycosylation at the frontline: protecting poultry and humans from Salmonella in a One Healthperspective

Yannick Rossez, Researcher, Centre National de la Recherche Scientifique (CNRS), University of Lille, France

13:00-14:00 **Lunch**

Session I3

Chair: **Yann Guérardel**, Research Director, Structural & Functional Glycobiology Unit, University of Lille, CNRS, France

14:00-14:30 Preventing bacterial and viral infections by targeting host-microbe glycointeractions

Catherine Robbe Masselot, Prof. Unité de Glycobiologie Structurale et Fonctionnelle, University of Lille/CNRS, France

14:30-15:00 Wastewater-based surveillance from hospital settings to animal farms: a One- Health approach as tool for public health future

Elisabete Valerio, Researcher, Department of Environmental Health, National Institute of Health Dr. Ricardo Jorge Lisbon, Portugal

15:00-15:30 Belgium's SARS-CoV-2 wastewater surveillance: from pandemic achievements to a future One-Health early warning system.

Koenraad Van Hoorde, Researcher, Head of Service, Foodborne Pathogens, Sciensano, Belgium

15:30-16:30 **Coffee break**

16:30-17:30 **One Bridge Workshops- Presentations and Outcomes**

One Bridge team

Session I4

Chair: **Michalis Leotsinidis**, Professor Emeritus, Environmental Toxicology and Epidemiology, Medical Department, University of Patras

17:30-19:00 **Round Table-Migration and One Health: Interconnected Challenges**

Apostolos Veizis, Executive Director of INTERSOS Hellas, **Santino Severoni**, Director of the Health and Migration at World Health Organization, World Health Organization, Geneva, Switzerland, **Kayvan Bozorgmehr**, Professor of Public Health, Director of the Department of Population Medicine and Health Services Research, Bielefeld University, Head of the Section of Health Equity Studies and Migration, Heidelberg University Hospital, **Teymur Noori**, European Centre for Disease Prevention and Control, Sweden, **Bernadette Kumar**, Professor, President of the Global Society on Migration, Ethnicity, Race and Health

18:00-19:00 **Workshop - When One Health Meets our Ethics: Case studies**

Karolina Akinosoglou, Internist-Infectiologist Associate Professor, Department of Medicine, University of Patras, **Anne-Lise deLastic**, Assistant Professor, Laboratory Haematology, Department of Medicine, University of Patras, **Katerina Grafanaki**, Teaching Staff, Department of Dermatology-Venereology, School of Health Sciences, University Hospital of Patras, **Eleni Polyzou**, Internal Medicine Resident, Department of Internal Medicine, University General Hospital of Patras, Greece

19:00-20:00 **Light Dinner- Welcome Cocktail**

Tuesday December 9, 2025

Combating Antimicrobial Resistance
through Integrated Policies

	Title	Presenters
08:30-09:00	Registrations	
09:00-11:00	Session II1	Chair: Marina Tarrús , Researcher, ISGlobal
09:00-09:30	Antimicrobial Resistance: Shaping the Future of Health in the EU	Ivan Vazquez, Hannah Sievers, Beatrice Marquez-Garrido European Commission (DG SANTE A1) Directorate-General for Health & Food Safety, European Commission
09:30-10:00	KEYNOTE: Ecological and Evolutionary Drivers of Environmental Antibiotic Resistance	Uli Klumper , Senior Researcher, Institute of Hydrobiology, Technical University of Dresden (TUD), Germany
10:00-10:30	KEYNOTE: AMR as a Silent Pandemic: Global and EU Perspectives	Sara Soto , Head of the Viral and Bacterial Infections Programme, Barcelona Institute for Global Health (ISGlobal), Spain
10:30-11:00	KEYNOTE: Prudent use of veterinary drugs and antibiotics in productive animals. Risk of development of antimicrobial resistance	Christos Zafeiridis , EU-Seconded National Expert, Directorate General for Health and Food Safety
11:00-11:30	Coffee break	
11:30-13:00	Session II2	Chair: C. Stathopoulos , Professor, Dean of Dept. of Medicine, University of Patras
11:30-12:00	Effect of Subinhibitory Biocide Exposure on Conjugal Transfer of Antibiotic Resistance Plasmids	Barth F. Smets , Professor, Department of Biological and Chemical Engineering Aarhus University, Denmark
12:00-12:30	The Challenge of Antimicrobial Resistance in Clinical Settings	Tryfinopoulou Kyriaki , Biopathologist-Microbiologist, Assistant Professor of Clinical Microbiology, School of Medicine, University of Crete, Head of the Central Public Health Laboratory (KEDY), Greece
12:30-13:00	Combating Antimicrobial Resistance through Integrated One Health Policies: Bridging Gaps between Human, Animal, and Environmental Sectors	Asma Bashir , Assistant Professor, Shaheed Zulfikar Ali Bhutto Institute of Science and Technology, Pakistan
13:00-14:00	Lunch	
14:00-15:30	Session II3	Chair: Uli Klumper , Senior Researcher, Department of Hydrobiology, Technical University of Dresden (TUD), Germany
14:00-14:30	Surveying AMR in wastewater samples: some first results from the application of different methodologies in two WWTPs in Crete, Greece	Dimosthenis Chochlakis , Researcher, School of Medicine, University of Crete, Greece

14:30-15:00	Tracking antibiotic resistance and pathogens across a Mediterranean city: insights from wastewater surveillance and risk assessment in Larnaca, Cyprus	Popi Karaolia , Researcher, Nireas-International Water Research Center, University of Cyprus
15:00-15:30	Identification and antibiotic resistance profiles of clinically important Salmonella serovars isolated from egg products	Andritsos Nikolaos , Assistant Professor, Department of Food Science and Technology, University of Patras
15:30-16:00	Coffee break	
16:00-18:00	Session II4 Oral Presentations	Chair: Karol Delgado , Researcher, ISGlobal, Spain
16:00-16:20	Like Parent, Like Metabolite: Do antibiotics and their transformation products exert comparable selective pressures?	Pooja Lakhey , Queensland Alliance for Environmental Health Sciences, Australia
16:20-16:40	An overlooked risk: The role of Mycobacterium avium subsp. paratuberculosis in antimicrobial resistance across the One Health spectrum.	Antonia Mataragka , Post Doctoral Researcher in Animal Science, Department of Animal Science, Agricultural University of Athens, Greece
16:40-17:00	Impact of manure fertilization on soil: fate of manure-introduced and indigenous taxa and genes	Marios Valmas , PhD candidate, Department of Biochemistry and Biotechnology University of Thessaly, Greece
17:00-17:20	A One Health Approach to Quantifying the Mobility Potential of Antibiotic Resistance Genes via Linkage-Based ddPCR	Magali de la Cruz Barrón , Researcher, Department of Hydrobiology, Technical University of Dresden (TUD), Germany
17:20-17:40	Fragile inhibition: AZT suppresses plasmid transfer but is easily undermined by resistance and metabolic rescue	Eda Deniz Erdem , Researcher, Institute of Hydrobiology, Technical University of Dresden (TUD), Germany
17:40-18:00	A Cycle of Contamination and Recovery: How Combined Sewer Overflows Increase Antimicrobial Resistance in an Urban Stream	Diala Konyali , Researcher, Institute of Hydrobiology, Technical University of Dresden (TUD), Germany
18:00-19:00	Session II5	
18:00-19:00	Workshop: Bridging One Health and Lifestyle Medicine: An interconnected path	A. Chatziantoniou , PhD candidate, Department of Medicine, University of Patras and K.Vagias , Biologist (BSc)-Nutritionist, Medical Student-University of Crete, Lifestyle Medicine Health Advisor-European Lifestyle Medicine Organisation (ELMO)

Wednesday December 10, 2025

Climate Crisis, Public and Environmental Health: An Integrated Approach to Resilience

	Title	Presenters
08:30- 09:30	Registrations	
09:30-11:00	Session III1	Chair: Apostolos Vantarakis , Professor of Public Health, Department of Medicine, University of Patras, Coordinator of One Bridge project
09:30-10:00	KEYNOTE: Health at the Crossroads of Climate Crisis and Migration	Bernadette Kumar , Professor, President of the Global Society on Migration, Ethnicity, Race and Health
10:00-10:45	KEYNOTE: The hidden pollution: The role and impact of disasters on ecosystems and human exposure	Thomaidis Nikolaos , Professor of Analytical Chemistry, Department of Chemistry, NKUA, Greece, Adjunct Professor at Yale University, School of Public Health, Visiting Professor, East China University of Science and Technology (ECUST), Shanghai
10:45-11:00	Students discussing climate crisis - Experimental Lower Secondary School of the University of Patras	Supervised by Ioannis Chiotelis , PhD, Mathematician, Principal of the School and Constantina Marazioti , PhD, Biologist
11:00-11:30	Coffee break	
11:30-13:00	Session III2	Chair: Yannick Rossez , Researcher, (CNRS), University of Lille, France
11:30-12:00	From Climate Stress to Food Insecurity: Nutritional implications	Emmanuella Magriplis , Professor, Agricultural University of Athens, Greece
12:00-12:30	Early warning systems for climate-sensitive vector borne diseases.	Ioannis Kioutsoukis , Professor, Laboratory of Atmospheric Physics, Department of Physics, University of Patras
12:30-13:00	Latest Epidemiological Evidence on the Association Between Short- and Long-Term Heat Exposure and Adverse Birth Outcomes	Michalis Koureas , Environmental Engineer, Researcher, University of Thessaly, Greece
13:00-14:00	Lunch	
14:00-15:30	Session III3	Chair: Ioannis Kioutsoukis , Professor, Laboratory of Atmospheric Physics, Department of Physics, University of Patras

14:00-14:45	KEYNOTE: The changing landscape of fungal diseases and antifungal resistance through the lens of climate variability and change	Aristea Velegraki , Professor of General Microbiology, School of Medicine, National and Kapodistrian University of Athens, Greece
14:45-15:05	Integrating Oxidative and Endocrine Biomarkers to Assess PFAS-Induced Stress in Freshwater Fish	Sophia Schumann , Researcher, TUD Dresden University of Technology, Germany
15:05-15:30	Climate-Driven Health Threats: The Next Frontier of One Health	Eleni Sazakli , Assistant Professor, Department of Medicine, University of Patras, Greece
15:30-16:00	Coffee break	
16:00-18:30	Session III4	Chair: Apostolos Vantarakis , Professor of Public Health, Department of Medicine, University of Patras, Coordinator of One Bridge project
16:00-16:30	KEYNOTE: The One Health Approach One Health-One Planet: a resilience approach	Zacharoula Andreopoulou , Professor Forest Informatics & Technologies for Green Regional Policy Director, MED-OHC
16:30-17:00	Climate Change, Health of Ecosystems and of People	Panayotis Dimopoulos , Professor in Ecology, Chair in the Biology Department, University of Patras, Greece
17:00-17:30	The Region of Thessaly facing Climate Crisis	Dimitris Kouretas , Professor of Animal Physiology- Toxicology, Department of Biochemistry and Biotechnology, University of Thessaly, Governor of the Region of Thessaly, Greece
17:30-19:30	Policy Panel: Society's Response to the Climate Crisis	Moderator: A. Mastorakou , Deputy Regional Governor for Public Health, Region of Western Greece Sinaia Netanyahu , WHO Regional Office for Europe, European Centre for Environment and Health, Thanos Myloneros , Public Health Officer WHO Athens Quality of Care & Patient Safety Office, Tony Holohan , Director, WHO Collaborating Centre for One Health, Adjunct Full Professor of Public Health, University College Dublin, D. Kouretas , Professor, Governor of the Region of Thessaly, P. Dimopoulos , Department of Biology, University of Patras

Thursday December 11, 2025

Leveraging Digital Innovation to
Advance One Health

	Title	Presenters
08:30-09:30	Registrations	
09:30-11:00	Session IV1	Chair: Kiouvrekis Ioannis , Assistant Professor, Department of Public and One Health, University of Thessaly, Greece
09:30-10:00	KEYNOTE: Harnessing Big Data and AI for Real-Time Health Surveillance" The Artificial Intelligence of Things in Health: smart sensors and wearables for screening respiratory symptoms and diseases	Sotiris Nikolettseas , Professor and Founding Director of the Internet of Things Laboratory (IoT-Lab) at the Computer Engineering and Informatics Department of Patras University, Greece
10:00-10:30	KEYNOTE: Using Machine Learning Models to anticipate the spread of Respiratory Diseases	Mario Munoz Organero , Associate Professor, Department of Telematics Engineering, Universidad Carlos III de Madrid, Spain
10:30-11:00	Innovative evidence synthesis methodologies within One Health data ecosystems	Evangelia Ntzani , Associate Professor and Head, Department of Hygiene & Epidemiology, School of Medicine, University of Ioannina, Greece
11:00-11:30	Coffee break	
11:30-13:00	Session IV2	Chair: Sotiris Nikolettseas , Professor and Founding Director of the Internet of Things Laboratory (IoT-Lab) at the Computer Engineering and Informatics Department of Patras University, Greece
11:30-12:00	KEYNOTE: Integrating Spatial Geometry and Control Charts for Public Health Event Monitoring	Economou Polychronis , Associate Professor, Department of Civil Engineering, Univeristy of Patras, Greece
12:00-12:30	AI and Risk Analysis in One Health approach	Athanasia Palaiologou , PhD candidate, Department of Medicine, University of Patras, Greece
12:30-13:00	KEYNOTE: Estimating the relationship between wastewater viral load and clinical markers during a long period of Omicron subvariants: Evidence of a stable decline in the death ratio.	Dimitrios Paraskevis , Professor, Medical Department, NKUA, Member of the Public Health Expert Committee of NPHO, Greece
13:00-14:00	Lunch	

14:00-16:00	Session IV3	Chair: Economou Polychronis , Associate Professor, Department of Civil Engineering, University of Patras, Greece
14:00-15:00	Round Table: Artificial General Intelligence for Strategic Planning and Decision Support	Vasilis A. Diamantopoulos , Assistant Professor, Katsafadou Angeliki , Associate Professor, Kiouvrekis Ioannis , Assistant Professor, Department of Public and One Health, University of Thessaly, Greece
15:00-15:30	KEYNOTE: Hybrid and Self-Adaptive SPOCU-Based Neural Networks in Health Strategies	Milan Stehlik , Professor, Department of Statistics, Universidad de Valparaíso, Valparaíso, Chile
15:30-16:00	KEYNOTE: AI and surveillance of AMR in the One Health context	Adrian Egli , Professor of Medical Microbiology and Director, Institute of Medical Microbiology, University of Zurich, Switzerland
16:00-16:30	Coffee break	
16:30-19:00	Session IV4	Chair: Eleni Sazakli , Assistant Professor, Department of Medicine, University of Patras, Greece
16:30-17:30	Workshop: Artificial Intelligence in Practice: Selecting and Evaluating the Optimal Model	Kiouvrekis Ioannis , Assistant Professor, Department of Public and One Health, University of Thessaly, Greece
17:30-18:00	Empowering Youth for One Health in the Digital Era	Kyriakos Giallourakis , President of One Health Students Greece
18:00-18:30	Closing summary: "Shaping the Future of One Health in Europe"	Apostolos Vantarakis , Professor of Public Health, Department of Medicine, University of Patras, Coordinator of One Bridge project





"The ONE-Bridge project aims to advance the One Health approach by fostering collaboration and addressing the interconnected challenges at the interface of human, animal, and environmental health. Through a high-level One Health Conference in Patras, Greece, and three workshops in Barcelona, Lille, and Dresden, the project will provide a dynamic platform for stakeholders to engage in interdisciplinary dialogue, exchange knowledge, and co-develop actionable strategies. These four events are organized within the framework of the EU co-funded project titled "One Health Nexus: Bridging Human, Animal, and Environmental Health Across Europe."

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