



# Conference Programme



## One Health Nexus

Bridging Human, Animal, and Environmental Health Across Europe

**December 8-11  
2025**

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

### Conference Info



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



Monday December 8, 2025

Preventing Human and Zoonotic Disease  
Transmission: A One Health Perspective  
Presenters

Title	Preventing Human and Zoonotic Disease Transmission: A One Health Perspective Presenters
08:30-09:30 09:00-09:30	<b>Registrations Opening</b> <b>Ceremony &amp; Welcome Addresses</b> <p><b>C. Bouras.</b> Professor, Rector of University of Patras. <b>G. L. Adonakis</b>, Professor, Chair of Department of Medicine, University of Patras, <b>C. Stathopoulos</b>, Professor, Dean of Dept. of Medicine, <b>A. Mastorakou</b>, Regional Governor for Public Health, Region of Western Greece, <b>C. Peletidis</b>, Mayor of Patras, <b>A. Vantarakis</b>, Professor, Coordinator of One Bridge project</p>
09:30-10:00	<b>HaDEA – Funding opportunities in health: EU4Health</b> <p><b>Ludmila Nistor-Mihajlova</b>, Project Adviser, HaDEA A1</p>
10:00-11:00	<b>Session I1</b> <p><b>Chair: Apostolos Vantarakis</b>, Professor of Public Health, Department of Medicine, University of Patras, Coordinator of One Bridge project</p>
10:00-10:30	<b>KEYNOTE:</b> One Health as a Strategic Compass for European Public Health. <p><b>Agis Tsouros</b>, International Adviser Health Policy and Strategy - Former Director at World Health Organization - Adjunct Professor, Boston School of Public Health</p>
10:30-11:00	<b>KEYNOTE:</b> Double-Edged Viruses: Bacteriophages as Promising Antibacterials with a Hidden Side". <p><b>Panos G. Kalatzis</b>, Assistant Professor, Faculty of Health and Medical Sciences, GLOBE Institute, Section for Evolutionary Hologenomics, University of Copenhagen, Denmark</p>
11:00-11:30	<b>Coffee break</b>
11:30-13:00	<b>Session I2</b> <p><b>Chair: Eleni Jelastopulu</b>, Professor of Public Health, Director of Lab of Public Health, Epidemiology and Quality of Life, Department of Medicine, University of Patras, Greece</p>
11:30-12:00	<b>KEYNOTE:</b> H5N1 Avian Influenza Virus: Evolution, Pandemic Potential and One Health Perspective <p><b>Chrysostomos Dovas</b>, Professor of Molecular Microbiology, School of Veterinary Medicine, Aristotle University of Thessaloniki, Greece</p>
12:00-12:30	<b>Managing human and zoonotic disease outbreak: When One Health meets our ethics</b> <p><b>Karolina Akinosoglou</b>, Internist-Infectiologist Associate Professor, Department of Medicine, University of Patras, Greece</p>
12:30-13:00	<b>Glycosylation at the frontline: protecting poultry and humans from Salmonella in a One Healthperspective</b> <p><b>Yannick Rossez</b>, Researcher, Centre National de la Recherche Scientifique (CNRS), University of Lille, France</p>
13:00-14:00	<b>Lunch</b>

	<b>Session I3</b>	
14:00-14:30	Preventing bacterial and viral infections by targeting host-microbe glycointeractions	Chair: <b>Yann Guérardel</b> , Research Director, Structural & Functional Glycobiology Unit, University of Lille, CNRS, France <b>Catherine Robbe Masselot</b> , 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	<b>Elisabete Valerio</b> , 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.	<b>Koenraad Van Hoorde</b> , Researcher, Head of Service, Foodborne Pathogens, Sciensano, Belgium
15:30-16:30	<b>Coffee break</b>	
16:30-17:30	<b>One Bridge Workshops- Presentations and Outcomes</b>	One Bridge team
	<b>Session I4</b>	
17:30-19:00	<b>Round Table-Migration and One Health: Interconnected Challenges</b>	Chair: <b>Michalis Leotsinidis</b> , Professor Emeritus, Environmental Toxicology and Epidemiology, Medical Department, University of Patras <b>Apostolos Veizis</b> , Executive Director of INTERSOS Hellas, <b>Santino Severoni</b> , Director of the Health and Migration at World Health Organization, World Health Organization, Geneva, Switzerland, <b>Kayvan Bozorgmehr</b> , 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, <b>Teymur Noori</b> , European Centre for Disease Prevention and Control, Sweden, <b>Bernadette Kumar</b> , Professor, President of the Global Society on Migration, Ethnicity, Race and Health
18:00-19:00	<b>Workshop - When One Health Meets our Ethics: Case studies</b>	<b>Karolina Akinosoglou</b> , Internist-Infectiologist Associate Professor, Department of Medicine, University of Patras, <b>Anne-Lise deLastic</b> , Assistant Professor, Laboratory Haematology, Department of Medicine, University of Patras, <b>Katerina Grafanaki</b> , Teaching Staff, Department of Dermatology-Venereology, School of Health Sciences, University Hospital of Patras, <b>Eleni Polyzou</b> , Internal Medicine Resident, Department of Internal Medicine, University General Hospital of Patras, Greece
19:00-20:00	<b>Light Dinner- Welcome Cocktail</b>	

Tuesday December 9, 2025

Combating Antimicrobial Resistance through Integrated Policies

	Title	Presenters
08:30-09:00	<b>Registrations</b>	
09:00-11:00	<b>Session II1</b>	Chair: <b>Marina Tarrús</b> , Researcher, ISGlobal
09:00-09:30	<b>Antimicrobial Resistance: Shaping the Future of Health in the EU</b>	<b>Ivan Vazquez, Hannah Sievers, Beatrice Marquez-Garrido</b> European Commission (DG SANTE A1) Directorate-General for Health & Food Safety, European Commission
09:30-10:00	<b>KEYNOTE:</b> Ecological and Evolutionary Drivers of Environmental Antibiotic Resistance	<b>Uli Klumper</b> , Senior Researcher, Institute of Hydrobiology, Technical University of Dresden (TUD), Germany
10:00-10:30	<b>KEYNOTE:</b> AMR as a Silent Pandemic: Global and EU Perspectives	<b>Sara Soto</b> , Head of the Viral and Bacterial Infections Programme, Barcelona Institute for Global Health (ISGlobal), Spain
10:30-11:00	<b>KEYNOTE:</b> Prudent use of veterinary drugs and antibiotics in productive animals. Risk of development of antimicrobial resistance	<b>Christos Zafeiridis</b> , EU-Seconded National Expert, Directorate General for Health and Food Safety
11:00-11:30	<b>Coffee break</b>	
11:30-13:00	<b>Session II2</b>	Chair: <b>C. Stathopoulos</b> , 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	<b>Barth F. Smets</b> , Professor, Department of Biological and Chemical Engineering Aarhus University, Denmark
12:00-12:30	The Challenge of Antimicrobial Resistance in Clinical Settings	<b>Tryfinopoulou Kyriaki</b> , 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	<b>Asma Bashir</b> , Assistant Professor, Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology, Pakistan
13:00-14:00	<b>Lunch</b>	
14:00-15:30	<b>Session II3</b>	Chair: <b>Uli Klumper</b> , 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	<b>Dimosthenis Chochlakis</b> , 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	<b>Popi Karaolia</b> , Researcher, Nireas-International Water Research Center, University of Cyprus
15:00-15:30	Identification and antibiotic resistance profiles of clinically important <i>Salmonella</i> serovars isolated from egg products	<b>Andritsos Nikolaos</b> , Assistant Professor, Department of Food Science and Technology, University of Patras
15:30-16:00 <b>Coffee break</b>		
16:00-18:00	<b>Session II4</b> Oral Presentations	Chair: <b>Karol Delgado</b> , Researcher, ISGlobal, Spain
16:00-16:20	Like Parent, Like Metabolite: Do antibiotics and their transformation products exert comparable selective pressures?	<b>Pooja Lakhey</b> , Queensland Alliance for Environmental Health Sciences, Australia
16:20-16:40	An overlooked risk: The role of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> in antimicrobial resistance across the One Health spectrum.	<b>Antonia Mataragka</b> , 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	<b>Marios Valmas</b> , 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	<b>Magali de la Cruz Barrón</b> , 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	<b>Eda Deniz Erdem</b> , 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	<b>Diala Konyali</b> , Researcher, Institute of Hydrobiology, Technical University of Dresden (TUD), Germany
18:00-19:00	<b>Session II5</b>	
18:00-19:00	<b>Workshop:</b> Bridging One Health and Lifestyle Medicine: An interconnected path	<b>A. Chatziantoniou</b> , PhD candidate, Department of Medicine, University of Patras and <b>K. Vagias</b> , 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

Time	Title	Presenters
08:30- 09:30	<b>Registrations</b>	
09:30-11:00	<b>Session III1</b>	Chair: <b>Apostolos Vantarakis</b> , Professor of Public Health, Department of Medicine, University of Patras, Coordinator of One Bridge project
09:30-10:00	<b>KEYNOTE:</b> Health at the Crossroads of Climate Crisis and Migration	<b>Bernadette Kumar</b> , Professor, President of the Global Society on Migration, Ethnicity, Race and Health
10:00-10:45	<b>KEYNOTE:</b> The hidden pollution: The role and impact of disasters on ecosystems and human exposure	<b>Thomaidis Nikolaos</b> , 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	<b>Students discussing climate crisis</b> - Experimental Lower Secondary School of the University of Patras	Supervised by <b>Ioannis Chiotelis</b> , PhD, Mathematician, Principal of the School and <b>Constantina Marazioti</b> , PhD, Biologist
11:00-11:30	<b>Coffee break</b>	
11:30-13:00	<b>Session III2</b>	Chair: <b>Yannick Rossez</b> , Researcher, (CNRS), University of Lille, France
11:30-12:00	From Climate Stress to Food Insecurity: Nutritional implications	<b>Emmanuella Magriplis</b> , Professor, Agricultural University of Athens, Greece
12:00-12:30	Early warning systems for climate-sensitive vector borne diseases.	<b>Ioannis Kioutsioukis</b> , 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	<b>Michalis Koureas</b> , Environmental Engineer, Researcher, University of Thessaly, Greece
13:00-14:00	<b>Lunch</b>	
14:00-15:30	<b>Session III3</b>	Chair: <b>Ioannis Kioutsioukis</b> , Professor, Laboratory of Atmospheric Physics, Department of Physics, University of Patras

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

Thursday December 11, 2025

Leveraging Digital Innovation to Advance One Health

Title	Presenters
08:30-09:30 <b>Registrations</b>	
09:30-11:00 <b>Session IV1</b>	<b>Chair: Kiouvrekis Ioannis</b> , Assistant Professor, Department of Public and One Health, University of Thessaly, Greece
09:30-10:00 <b>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</b>	<b>Sotiris Nikoletseas</b> , 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 <b>KEYNOTE: Using Machine Learning Models to anticipate the spread of Respiratory Diseases</b>	<b>Mario Munoz Organero</b> , 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	<b>Evangelia Ntzani</b> , Associate Professor and Head, Department of Hygiene & Epidemiology, School of Medicine, University of Ioannina, Greece
11:00-11:30 <b>Coffee break</b>	
11:30-13:00 <b>Session IV2</b>	<b>Chair: Sotiris Nikoletseas</b> , 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 <b>KEYNOTE: Integrating Spatial Geometry and Control Charts for Public Health Event Monitoring</b>	<b>Economou Polychronis</b> , Associate Professor, Department of Civil Engineering, University of Patras, Greece
12:00-12:30 AI and Risk Analysis in One Health approach	<b>Athanasia Palaiologou</b> , PhD candidate, Department of Medicine, University of Patras, Greece
12:30-13:00 <b>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.</b>	<b>Dimitrios Paraskevis</b> , Professor, Medical Department, NKUA, Member of the Public Health Expert Committee of NPHO, Greece
13:00-14:00 <b>Lunch</b>	

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

## Media Sponsors



## Supporters

