



## One Health EJP Summer School 2021 Programme

### Environmental Issues in One Health: from risk assessment to surveillance

Environment is one pillar of One Health, and this is the first training initiative of the OHEJP entirely devoted to environmental issues.

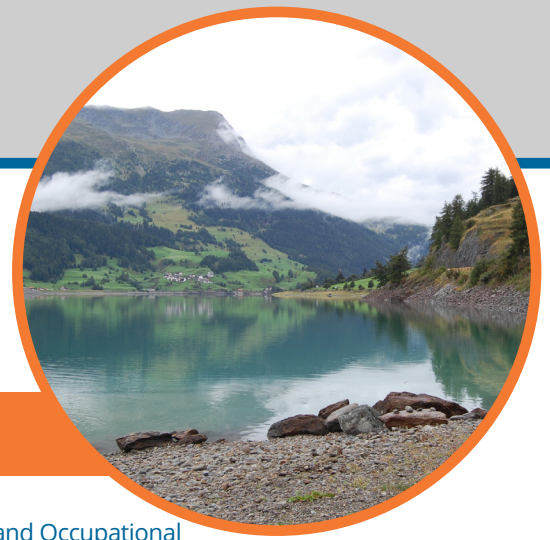
Environmental issues need to be illustrated and discussed in their multifaceted aspects: risk assessment, role of ecosystem-related factors, role of manmade factors, the farm as environmental modifier, and the issue of sustainability.

#### Monday 26th July Vision and Challenges

09.15-10.00 CEST	Introduction to the One Health European Joint Programme Hein Imberechts, Scientific Coordinator One Health European Joint Programme, Sciensano, Belgium
10.00-10.45	Introduction to the course: Environmental issues in One Health Umberto Agrimi, Italian National Institute of Health, Rome, Italy
10.45-11.00	Question time
11.00-11.45	Assessment of environment-related risk factors Alberto Mantovani, Italian National Institute of Health, Rome, Italy
11.45-12.30	Climate changes and eco-health Laura Mancini, Stefania Marcheggiani and Mario Carere, Italian National Institute of Health, Rome, Italy
12.30-12.45	Question Time
12.45-14.00	Lunch
14.00-14.45	One Health in the context of global health strategies Maria Grazia Dente, Italian National Institute of Health, Rome, Italy
14.45-15.30	New challenges of One Health epidemiology Paolo Vineis, Imperial College, London, United Kingdom
15.30-15.45	Question Time
15.45-17.00	Working groups

#### Tuesday 27th July Factors related to the natural environment (ecosystem, wildlife) in zoonoses and AMR

09.15-10.00	Genomics in the assessment and surveillance of biological hazards in the environment Stefano Morabito, Italian National Institute of Health, Rome, Italy
10.00-10.45	Zoonoses and wildlife hosts: the role of the environment in the emergence and spread of pathogens Dolores Gavier-Widen, National Veterinary Institute, Uppsala, Sweden
10.45-11.00	Question time
11.00-11.45	Environmental scenarios for the extended pathways of exposure to Shigatoxin-producing <i>E. coli</i> infections Gaia Scavia, Italian National Institute of Health, Rome, Italy
11.45-12.30	One Health aspects of SARS-CoV2 emergence and spread Wim van der Poel, Wageningen University, Wageningen, The Netherlands
12.30-12.45	Question time
12.45-14.00	Lunch
14.00-17.00	Working groups



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#### Wednesday 28th July Factors related to the man-made environment in zoonoses and AMR

09.15-10.00 CEST	The evolving ecology of vector-borne diseases Stephan Zientara, French Agency for Food, Environmental and Occupational Health & Safety – ANSES, Maisons-Alfort, France
10.00-10.45	One Health strategies to reduce AMR Bruno Gonzales-Zorn, Complutense University of Madrid, Spain
10.45-11.00	<i>Question time</i>
11.00-11.45	Climate changes, mycotoxins, animal and human health Barbara De Santis, Italian National Institute of Health, Rome, Italy
11.45-12.30	Citizen science to expand One Health community and engage stakeholders Maurizio Ferri, DVM-Italian Veterinary Service, Pescara, Italy
12.30-12.45	<i>Question time</i>
12.45-14.00	<b>Lunch</b>
14.00-17.00	Working groups

#### Thursday 29th July The environment-farm interface

09.15-10.00	Feeds, environment, One Health and sustainability Marta Lopez Alonso, University of Santiago de Compostela, Spain
10.00-10.45	Pollution and circular economy: advantages and drawbacks Marco Vighi, IMDEA Water Institute, Madrid, Spain
10.45-11.00	<i>Question time</i>
11.00-11.45	The EU chemicals strategy for sustainability: Fipronil as key study for a One Health environment and health risk assessment Gianfranco Brambilla, Italian National Institute of Health, Rome, Italy
11.45-12.30	From environment to human diet: the case study of perfluoroalkyl substances (PFAS) Francesco Cubadda, Alberto Mantovani, Italian National Institute of Health, Rome, Italy
12.30-12.45	<i>Question time</i>
12.45-14.00	<b>Lunch</b>
14.00-17.00	Working groups

#### Friday 30th July Way forward: from bench to field and society

09.15-10.00	Historical and socio-economical aspects to consider when implementing One Health Alexandru Supeanu, National Sanitary Veterinary and Food Safety Authority, One Health Romania, Bucharest, Romania
10.00-10.45	One Health in practice: from signalling to response and control Kitty Maassen, National Institute for Public Health and the Environment, Bilthoven, The Netherlands
10.45-11.00	<i>Question time</i>
11.00-11.45	From warthog to wild boar: a transcontinental journey of an African virus Vittorio Guberti, Italian Institute for Environmental Protection and Research, Ozzano Emilia, Italy
11.45-12.30	Field epidemiology: how to perform a One Health assessment in the farm Marco Cristofori, Regional Health Authority, Umbria, Italy
12.30-12.45	<i>Question time</i>





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12.45-14.00 CEST	<b>Lunch</b>
14.00-14.45	One Health components in strategies to ameliorate human nutrition Marco Silano, Italian National Institute of Health, Rome, Italy
14.45-15.00	Question time
15.00-17.00	Student session: the students present the outcomes of the Working Groups

### Saturday 31th and Sunday 1st August Free days

### Monday 2nd August Workshop on One Health, sustainability and food safety

09.30-10.15	Climate change implications for global food safety Vittorio Fattori, Food and Agriculture Organization of the United Nations, Food Systems and Food Safety Division, Rome, Italy
10.15-11.00	Environmental issues in One Health: the viewpoint of the World Health Organization Sinaia Netanyahu, World Health Organization, WHO European Centre for Environment and Health, Bonn, Germany
11.00-11.45	E-waste: from human biomonitoring to safer environment and better management Chiara Frazzoli and Beatrice Bocca, Italian National Institute of Health, Rome, Italy
11.45-12.30	Question time
12.30-14.00	<b>Lunch</b>
14.00-17.00	Working groups

### Tuesday 3rd August Assessment and surveillance of microbiological hazards: environment (water bodies), food, biomonitoring, epidemiology

09.15-10.00	Protection of wildlife health to achieve One Health goals: the viewpoint and framework of the World Organization on Animal Health (OIE) Budimir Plavsic, World Organisation for Animal Health, OIE Regional Representation in Moscow, Russia
10.00-10.45	The neglected zoonoses cystic and alveolar echinococcosis Adriano Casulli, Italian National Institute of Health, Rome, Italy; WHO Collaborating Centre for the Epidemiology, Detection and Control of Cystic and Alveolar Echinococcosis
10.45-11.00	Question time
11.00-11.45	Monitoring results of Q fever in the EU Frank Boelaert, European Food Safety Authority
11.45-12.30	Zoonotic viruses from food to water Giuseppina La Rosa, Italian National Institute of Health, Rome, Italy
12.30-12.45	Question time
12.45-14.00	<b>Lunch</b>
14.00-17.00	Working groups

### Wednesday 4th August Field One Health activities at Istituto Zooprofilattico Sperimentale

10.00-10.45	Monitoring and surveillance of antimicrobial resistance: a "One Health Perspective" Antonio Battisti, Istituto Zooprofilattico Sperimentale Lazio e Toscana, Rome, Italy
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10.45-11.00 CEST	<i>Question time</i>
11.00-12.00	The case of Sacco valley: a multidisciplinary One Health approach to environmental pollution Marcello Sala and Paola Scaramozzino, Istituto Zooprofilattico Sperimentale Lazio e Toscana, Rome, Italy
12.00-12.15	<i>Question time</i>
12.15-13.30	<i>Lunch</i>
13.30-17.00	Communication in One Health Roberto La Ragione, Piyali Basu, Jade Passey, Elaine Campling, School of Veterinary Medicine, University of Surrey, Guildford, United Kingdom; Sara Perestrello, Ludovico Sepe, BfR, Berlin, Germany

### Thursday 5th August Assessment and surveillance of toxicological hazards: environment, food (roles of National Reference Laboratories) biomonitoring, epidemiology

09.15-10.00	Risk assessment of environmental contaminants in food based on surveillance and monitoring data Marina Patriarca and Angela Sorbo, Italian National Institute of Health, Rome, Italy
10.00-10.45	An approach for the risk assessment of pesticides in the environment and for human health Angela Santilio, Italian National Institute of Health, Rome, Italy
10.45-11.00	<i>Question time</i>
11.00-11.45	Environmental health: how are chemical exposure, human biomonitoring and climate change linked? Joana Lobo Vicente, European Environment Agency, Copenhagen, Denmark and Susana Viegas, National School of Public Health, NOVA University Lisbon, Portugal
11.45-12.30	Epidemiology in highly contaminated sites Ivano Iavarone and Roberto Pasetto, Italian National Institute of Health, Rome, Italy
12.30-12.45	<i>Question time</i>
12.45-14.00	<i>Lunch</i>
14.00-17.00	Working groups

### Friday 6th August Wrap-up day: the governance of One Health

09.15-09.45	Introduction Silvio Brusaferrò, President of Italian National Institute of Health
09.45-10.30	One Health approach in the surveillance of zoonoses and foodborne diseases Valentina Rizzi, European Food Safety Authority
10.30-10.45	<i>Question time</i>
10.45-11.30	The governance of One Health: science to society translation of the environmental component of One Health Annemarie Kaesbohrer, University of Veterinary Medicine, Vienna, Austria
11.30-12.15	The institutionalization of One Health Pier Davide Lecchini, Italian Ministry of Health, Rome, Italy
12.15-12.45	<i>Question time</i>
12.45-14.00	<i>Lunch</i>
14.00-16.30	Student session: the students present the outcomes of the Working Groups
16.30-17.00	Concluding remarks Umberto Agrimi, Italian National Institute of Health, Rome, Italy