



**Network
for Evaluation
of One Health**



Belgian Community of Practice
on Biodiversity and Health



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI SCIENZE E TECNOLOGIE
AGRO-ALIMENTARI

SEPTEMBER 10-12, 2018 | UNIVERSITY OF BOLOGNA

CREATING IMPACT FOR ONE HEALTH & ECOHEALTH

Advancements in implementation,
evaluation and governance



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WELCOME TO BOLOGNA

The EU COST funded project Network for Evaluation of One Health (NEOH), the Belgian Community of Practice Biodiversity and Health (COPBH), and the Department of Agricultural and Food Sciences (DISTAL) of the University of Bologna are pleased to welcome you to this conference where we will discuss developments in One Health and EcoHealth thinking. Here, we aim to:

- Explore how **EcoHealth** and **One Health** approaches are being evaluated and implemented in practice;
- Learn about **changes in institutional and regulatory structures** at national and international levels;
- Discuss how the process of **translating science into practice** can be promoted.

The conference builds on previous NEOH meetings and workshops and on the European One Health/EcoHealth workshop held in Brussels in October 2016. Keynote speakers, oral and poster presentations, roundtables alongside parallel discussion sessions hope to explore our conference themes:

- The **policy cycle and the evaluation** of One Health and EcoHealth initiatives;
- **Knowledge integration and governance** of One Health and EcoHealth;
- Examples of **One Health implementation** at the institutional level, needs, barriers and success factors;
- **Collaboration between science and practice**: a continuous interdisciplinary and intersectoral process.



MONDAY 10 SEPTEMBER

(9.00-13.00) Arrival and registration

09.30-11.00 SESSION 1 - OPENING

Chair: Barbara Häslér (Royal Veterinary College)

Official welcome

Leonardo Nanni Costa and Maurizio Aragrande, University of Bologna, Italy

Conference introduction

Barbara Häslér, Royal Veterinary College, United Kingdom

KEYNOTE:

Reconcile different (opposing) demands and use of economic analyses to inform decisions that help us promote health, equity, ecological stewardship, and economic efficiency

Erik Gómez-Baggethun, Norwegian University of Life Sciences

11.00-11.30 Coffee/tea break

11.30-13.00 SESSION 2 - THE ONE HEALTH / ECOHEALTH POLICY CYCLE AND EVALUATION

Chair: Jakob Zinsstag (Swiss Tropical and Public Health Institute)

NEOH results in relation to the One Health and EcoHealth policy cycle

Simon Rüegg, University of Zürich, Switzerland

Sara Savić, Scientific Veterinary Institute Novi Sad, Serbia

Sandra Buttigieg, University of Malta

Vladimir Grosbois, CIRAD, France

Vlatko Ilieski, Ss. Cyril and Methodius University, Skopje, Republic of Macedonia

Hans Keune, Belgian Community of Practice on Biodiversity and Health, Brussels, Belgium

Roundtable with comments from external discussants followed by open discussion

Cristina Romanelli, United Nations Secretariat of the Convention on Biological Diversity (CBD)

Zoran Katrinka, Programme Director for One Health, Unipol Gruppo DDOR, Serbia

13.00-14.00 Lunch

SESSION 3 - WHERE SCIENCE MEETS POLICY

14.00-16.00 Progress towards implementation of One Health/EcoHealth in a collaborative manner

Chair: Hans Keune (Belgian Community of Practice on Biodiversity and Health)

University-government partnerships as One Health game changers: Meeting country needs through multisectoral partnerships and collaboration

Katey Pelican, University of Minnesota, United States of America

Network Integration for Stakeholder Engagement

Jeff Wilson, Novometrix Research Inc., Canada

Perspectives on health evaluation and governance: Insights from review work

Afifah Rahman-Shepherd, Royal Institute of International Affairs, Chatham House, United Kingdom

Panel discussion moderated by Chatham House

Jürg Danuser, Federal Food Safety and Veterinary Office, Switzerland

Gabby Laing, House of Lords Intern, United Kingdom

Stefano Morabito, National Institute of Health, Italy

Jeff Wilson, Novometrix Research Inc., Canada

Katey Pelican, University of Minnesota, United States of America

16.00-16.30 Coffee/tea break

16.30-18.00 SESSION 4 – NETWORKING & NEOH MANAGEMENT COMMITTEE MEETING

NEOH Management Committee meeting (for NEOH management committee members and NEOH MC observers)

In parallel

- Networking activities
- Early Career Investigators networking & Bologna Declaration discussion
- Posters

19.00 - **NEOH HANDBOOK LAUNCH, RECEPTION AND CONFERENCE DINNER AT GARGANELLI RESTAURANT**

TUESDAY 11 SEPTEMBER

09.30-11.00 **SESSION 5 – ONE HEALTH AND ECOHEALTH DEVELOPMENTS IN DIFFERENT MACROREGIONAL CONTEXTS: PART I**

Chair: Sandra Buttigieg (University of Malta)

Europe and the Mediterranean region

Ann Lindberg, National Veterinary Institute, Sweden

Maria Grazia Dente, Istituto Superiore di Sanità, Italy

Asia

Hung Nguyen-Viet, Regional Representative for East and South-East Asia, International Livestock Research Institute (ILRI) and Hanoi University of Public Health, Vietnam

United States of America and Canada

Cécile Aenishaenslin, Université de Montréal, Canada

Latin America

Efraín Benavides, Universidad de la Salle, Bogotá, Colombia

11.00-11.30 **Coffee/tea break**

11.30-13.00 **SESSION 6 - ONE HEALTH AND ECOHEALTH DEVELOPMENTS IN DIFFERENT MACROREGIONAL CONTEXTS: PART II and LOOKING TO THE FUTURE**

Chair: Massimo Canali (University of Bologna)

Africa

Agnes Yawe, One Health Central and Eastern Africa (OHCEA), Kampala, Uganda

Australasia

Mieghan Bruce, Murdoch University, Australia

The future of NEOH

John Berezowski, University of Bern, Switzerland

Bologna Declaration on One Health and EcoHealth

Lead and presented by

Giulia Paternoster, University of Zürich, Switzerland

Olga Muñoz, University of Florida, United States of America

Gabby Laing, House of Lords Intern, United Kingdom

13.00-14.00 **Lunch**

SESSION 7 – PARALLEL DISCUSSION SESSIONS AND WORKSHOPS

Group work in break-out rooms

14.00-16.00

Chair: Hans Keune (Belgian Community of Practice on Biodiversity and Health)

1. Landscapes of changing knowledge and action on One Health, Eco-health: from Local to Planetary, Timo Assmuth, SYKE, Finland

2. Vectors, vector borne pathogens and vectorborne zoonotic diseases from a One Health perspective, Sara Savić, NIV-NS, Serbia

3. Evaluating the added value of One Health surveillance of antimicrobial resistance, Cécile Aenishaenslin, Université de Montréal, Canada

4. A procedure to approach interdisciplinary issues in One Health initiatives, Elena Boriani, DTU, Denmark

5. Nature based care: opportunities for naturebased health benefits in One Health, Hans Keune, COPBH, Belgium

6. Introduction to One Health methods, Jakob Zinsstag, Swiss TPH, Switzerland

7. One Health implementation in the global South: Improving Food Safety, Food Security and Nutrition in Livestock-based Communities, Rudi Cassini, Vétérinaires Sans Frontiers Int. and University of Padua, Italy

8. The role of the social sciences in One Health, Julie Garnier, Odyssey Conservation Trust, United Kingdom

16.00-16.30 Coffee/tea break

SESSION 8 – WORKSHOP FEEDBACK AND CLOSING

16.30-18.00

Chairs: Maurizio Aragrande (University of Bologna) and Barbara Häslér (Royal Veterinary College)

- Reports from workshops by rapporteurs
- Conference reflections and agreement on next activities
- Closing of the conference

19.00 OPTIONAL TOUR AT FICO-EATALY

NEOH DISSEMINATION WORKSHOP

PURPOSE This workshop aims to give participants an introduction to systems thinking and to evaluation of integrated approaches to health by using frameworks and protocols developed by the Network for Evaluation of One Health. Theoretical aspects will be directly applied to case studies that participants are kindly asked to bring along.

TARGET AUDIENCE The workshop is suitable for scientists and professionals who work with integrated approaches to health, such as One Health or EcoHealth, and want to improve the evaluation aspects of their activity with a view to evaluate an initiative prospectively, in itinere or retrospectively. Any type of initiative, such as implementation of new health services, health programmes dedicated to education, surveillance, vaccination, etc., can be considered

WHAT WE WILL COVER The workshop will give participants the opportunity to learn about the NEOH evaluation framework and protocols and how to apply them to their personal case studies. It will be also a special occasion to exchange thoughts and ideas with experts in the field.

FORMAT Lectures, discussions, exercises
Recommended maximum number of participants is 30

LEARNING OUTCOMES After completion of the training school, you should be able to

- Develop a systems map of an initiative
- Describe the Theory of Change of an initiative and identify systemic outcomes
- Summarise how One Health characteristics can be evaluated
- Discuss the evaluation design of the personal case study

WEDNESDAY 12 SEPTEMBER

Coordinated and delivered by:

Simon Rüegg (University of Zürich, Switzerland)

Barbara Häsler (Royal Veterinary College, United Kingdom)

Maurizio Aragrande (University of Bologna, Italy)

Liza Rosenbaum Nielsen (University of Copenhagen, Denmark)

Sara Savic (Scientific Veterinary Institute Novi Sad, Serbia)

Giulia Paternoster (University of Zürich, Switzerland)

09.00-09.15 INTRODUCTIONS

09.15-09.30 OVERVIEW OF THE NEOH EVALUATION APPROACH

09.30-11.00 SYSTEMS THINKING AND SYSTEMS MAPPING

11.00-11.30 Coffee/tea break

11.30-12.30 THEORY OF CHANGE AND IDENTIFICATION OF THE OUTCOMES OF THE INITIATIVE

12.30-13.00 THE NEOH TOOLS USED TO MEASURE ONE HEALTHNESS

13.00-14.00 Lunch

14.00-15.00 APPLICATION OF THE NEOH TOOLS TO CASE STUDIES

15.00-16.00 PRESENTATION AND DISCUSSION OF EVALUATION DESIGNS

16.00 END OF WORKSHOP

Bologna Declaration on One Health & EcoHealth

"Be as creative as possible, and develop new previously unknown ways to study, understand and improve health for all. Great science is like great art, it emerges out of creative minds to challenge our perspective of the world"

J. Berezowski

We are pleased to offer young-minded researchers and other interested people involved in One Health and EcoHealth activities the opportunity to share their own visions on One Health and EcoHealth.

A group of junior researchers is already working on this initiative to issue:

"The Bologna Declaration on One Health and EcoHealth" and they would like to hear from you and get your input!

This is an opportunity to express novel ideas, insights and engagement for One Health and EcoHealth. The objective is to let people with visionary ideas share their perspective; the declaration will also be included in a dissemination booklet after the Conference.

We invite you to share:

- your own motivations to engage in One Health and EcoHealth;
- the role you would like to play with your particular competences;
- the gaps you see, as well as the opportunities you intend to exploit;
- your recommendations for advancing One Health and EcoHealth.

If you wish to engage with this activity and share your vision please write how you would like to contribute with few clear messages (150 words maximum) and state your name, affiliation, professional status, and professional address in an email to:

*neohfinalconference@unibo.it with the subject "BOLOGNA DECLARATION"
or talk to Giulia Paternoster, Gabby Laing and/or Olga Muñoz at the conference*

SPEAKERS AND BIOS

(in alphabetical order)



Dr Cécile Aenishaenslin is an Assistant Professor in epidemiology at the Faculty of veterinary medicine of the University of Montreal. She is a veterinarian and holds a Masters in international studies, a PhD in epidemiology (University of Montreal) and a post-doctorate in surveillance evaluation (McGill University). Her research focuses on the design and evaluation of One Health approaches for the surveillance, prevention and control of zoonotic diseases. Her current projects are targeted on Lyme disease, rabies and antimicrobial resistance.



Prof. Maurizio Aragrande is Professor in Agro-food Economics at the University of Bologna. He has extensive experience in teaching Economics in the Veterinary Faculty (Agricultural Economics, Food Economics, Marketing, Farm management, Veterinary Economics) in undergraduate and postgraduate courses. At the Department of Agricultural and Food Sciences, he develops his research activity on different aspects of the agro-food system. He collaborated at FAO in the "Food into cities" Programme to build up an interdisciplinary approach for the study of the food supply systems of Western Africa cities. Since 2002 he successfully led and managed several European research teams on behalf of the European Commission and the European Parliament. European studies focused in particular on impact evaluation of Common Agricultural Policy measures, covering a wide array of issues related to the EU agro-food system (animal welfare, food quality schemes, competition and price transmission, economics of biomasses, set aside, EU enlargement), through micro-economic, sector and supply chain approach. He is now focusing on interdisciplinary approaches in the framework of One Health evaluation.



Dr Timo Assmuth is senior research at the Finnish Environment Institute (SYKE) and docent at University of Helsinki from which he graduated with major in environmental sciences, and where he defended his PhD on toxicological risk assessment of hazardous waste sites. After moving to SYKE, he led R&D in hazardous wastes, soil contamination and risk assessment, then in endocrine disrupters and chemicals policy. As co-leader of the Research Programme on Contaminants he was in charge of a Nordic project on risks and management of dioxins in Baltic Sea fish, and a plan of R&D in environmental restoration and in environmental biotechnology. Ever more into social and human aspects of environmental risks, Timo worked on risk perception, communication and policy in the EU project NoMiracle. He visited Tufts on a Fulbright grant in 'Integration of human and natural dimensions of environmental risks', and from there RFF, Columbia and Harvard, and Marburg on a grant in environmental history. At SYKE Environmental Policy Centre he focuses on water resources, health and sustainability transitions. He is engaged in Nordic and EU projects on integrated and evaluative approaches to nature and health. Timo has participated in 90 international meetings, led 15+ R&D projects, been a member in many committees, given lectures in 50+ courses, guided ca. 15 theses, and produced 190 scientific, professional and popularizing publications.

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Prof. Efraín Benavides-Ortiz, MV, MSc., PhD is a veterinarian with postgraduate studies in veterinary epidemiology and parasitology (University of Edinburgh) and a research career related to epidemiological studies directed to the understanding of animal disease with emphasis in the tropics, looking for alternatives for diagnosis and control, integrated parasite control, including biocology of parasites and resistance to parasiticides, Veterinary Epidemiology and One Health. He has experience in veterinary teaching and academia in various universities in Colombia, at under graduate and post graduate levels, international consultancy with FAO and GTZ, and as editor of electronic thematic networks. At present he is an associate professor in the Program of Veterinary Medicine, Faculty of Agricultural Sciences. Universidad de La Salle, Bogotá, Colombia. He teaches Veterinary Parasitology in undergraduate Veterinary Medicine, Veterinary Epidemiology, One Health and related subjects in postgraduate courses in the MSc courses of Veterinary Sciences and Agrosociences and in the Doctorate of Agrosociences.



Dr John Berezowski spent 18 years in food animal practice in Western Canada before completing his PhD in epidemiology in 2004. He then began pursuing his interests in surveillance epidemiology by designing, leading and participating in large and small surveillance projects for the Alberta Veterinary Surveillance Network of Alberta Agriculture and Rural Development. He currently leads a small group of dedicated and very creative researchers at the Veterinary Public Health Institute at the University of Bern in Switzerland. He has a strong interest in developing new surveillance methodologies and has published, presented and taught in the field. His current research focus is on integrated approaches to surveillance especially method development to support knowledge generation from complex real-time surveillance, by combining data from many varied sources (human, livestock, wildlife, and environment) and across complete livestock based food supply chains



Dr Elena Boriani will soon complete her Postdoc at the Technical University of Denmark within the Global Decision Support Initiative group and National Food Institute. She has been working with interdisciplinary projects merging *in vivo*, *in vitro* and *in silico* methodologies to assess chemical compounds toxicity. Participating in 9 EU Projects, she gained wide experience in teaching and communication skills. Recently she has been working with risk assessment and burden of disease of chemicals in food packaging, associated with sustainability. Her research interests are also in the field of public health using system thinking analysis and cognitive methodologies to overview and help governance for interdisciplinary projects. Elena is now working to provide diverse instruments to improve interdisciplinary collaboration, she will be very happy to get in touch with people interested to the same topics.



Dr Mieghean Bruce is a Lecturer in Veterinary Epidemiology at Murdoch University, Australia. Her research interests focus on integrating epidemiologic, economic and social dimensions of food systems for improving human nutrition and health. This has involved developing methodology to quantify the contributions of the different pathways from livestock health interventions to child nutritional outcomes in Tanzania. Her PhD entitled *The impact of brucellosis in Albania: a systems approach* was undertaken at the Leverhulme Centre for Integrative Research on Agriculture and Health, University of London. Prior to joining Murdoch, she worked at the Institute of Infection and Global Health, University of Liverpool exploring methods to establish the Global Burden of Animal Disease. In 2015, she was awarded an IMMANA Postdoctoral Fellowship through the Friedman School of Nutrition Science and Policy, Tufts University. During this time she collaborated with an interdisciplinary team from the University of Sydney on project funded by ACIAR. She has also worked as a researcher at the Royal Veterinary College, UK and as a consultant for the Food and Agriculture Organization and EU development projects identifying the costs and benefits associated with the control of livestock and zoonotic diseases

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Prof. Sandra C. Buttigieg is Associate Professor and Head of Department of Health Services Management (HSM), Faculty of Health Sciences, University of Malta, and Honorary Senior Research Fellow, HSMC, University of Birmingham, UK. She is Consultant Public Health Medicine, Head-Clinical Performance Unit, and member-Patient Safety and Quality Improvement Team, Mater Dei Hospital. She lectures in HSM, Public Health, Family Medicine, Research Methodology and Evidence-based Management and strongly advocates inter-/trans-disciplinarity within HSM in practice/research. She believes that health organisations'/systems' performance as a macro-concept depends on policies, people and operating systems and her research, therefore, focuses on and links, clinical performance management, quality of care, patient safety, health information technology, organisational behaviour, operations management/research; and policy issues (ageism, migrant health, One Health).



Dr Massimo Canali (Ph.D. in Agricultural Economics and Policy) has been assistant professor of agricultural economics at the Dept. of Agriculture and Food Sciences of the University of Bologna since 2005 and currently teaches agricultural economics and policy, environmental economics and economic geography. His research is concerned with sustainable development of agriculture and food systems, with a focus on environmental health and One Health issues. He has worked in international research and development projects for the European Commission (DGs Agriculture and Rural Development, Enlargement, and JRC), the European Parliament, the FAO, the Italian Ministry of Foreign Affairs, and the EU FP7-Programme. He is presently involved in economic evaluations related to area-wide integrated control of tiger mosquitos and zoonoses.



Dr Rudi Cassini, DVM, PhD, member of the VSF Italy board and Assistant Professor in Parasitology and Parasitic Diseases at the University of Padova since 2006. His main research topic is on epidemiology of zoonotic parasitic diseases, including the evaluation of their socio-economic impact. He gained deep experience in the field of international cooperation for development, working in Ethiopia, Algeria and Kosovo, and supervising applied research in collaboration with international NGO in field project, mainly in Africa. In 2011 and 2014 he was the Director of the Master in International Veterinary Cooperation, at the University of Padova.



Dr Jürg Danuser, agronomist, PhD in animal science at Federal Institute of Technology, diploma in advanced studies in Policy Evaluation. Starting 1998 at former Swiss Federal Veterinary Office and from 2014 to date, he is a One Health expert and senior animal health research officer at Swiss Federal Food Safety and Veterinary Office FSVO and deputy head of Animal Health Division. He is also head of the Governmental OH Institution, established in 2017. His scientific contributions and publications include many in the field of animal health and animal welfare recording, foodborne zoonoses and surveillance systems, One Health, conception and execution of national surveillance of zoonotic agents, AMR in livestock and food, coordination of zoonosis control in a One Health context, key performance indicators for animal health control.



Dr Maria Grazia Dente, public health expert and experienced project manager, with expertise in the fields of international cooperation, preparedness and surveillance of infectious diseases and control of cross-border health threats, migrant health. Since 2014, she is key expert for public health aspects of arbovirus infections of the European OH Project MediLabSecure. She has worked as the Coordinator of the multi-institution and multi-financed project EpiSouth and EpiSouth Plus, since its institution in 2006. EpiSouth is a Mediterranean Network of Public Health Institutions and Laboratories aimed at controlling Mediterranean cross-border health threats. Dr Dente also has specific technical knowledge on migrant health, due to her participation in international Projects such as the EC PROMOVAX (Promote vaccination among migrants), ECDC EURO MoMiH (Monitoring Migrant Health), and on the health policy implications of research outputs.



Dr Julie Garnier is a dedicated conservationist and veterinarian with 25+ years experience in creating and managing holistic conservation and development programmes with and for local and indigenous communities, in some of the most threatened ecosystems of the planet. After working in black rhinoceros research and conservation with Shangaan people in Zimbabwe, she developed a community-based coastal conservation programme in northern Mozambique. It provides evidence that biodiversity conservation initiatives can be sustainable when the endemic problem of poverty that affects communities, and especially women, is addressed with a broad “One Health” approach - One Health for conserving a bio-cultural landscape that builds upon people’s cultural identity and traditional environmental knowledge. She is now committed to expand such a holistic and gender-sensitive One Health model to other local and indigenous communities in threatened ecosystems and has developed programmes in Bolivia, Morocco, India etc. She worked for 18 years with the Zoological Society of London and has now co-founded the Odyssey Conservation Trust with a small group of experienced conservationists and OH practitioners.



Prof. Erik Gómez-Baggethun is a Professor in Environmental Governance at the Norwegian University of Life Sciences (NMBU) and a Senior Visiting Research Associate at the University of Oxford. His research covers various topics in environmental and sustainability sciences, fields in which he has contributed >100 publications and policy reports. He serves as vice president of the European Society for Ecological Economics (ESEE) and in the editorial boards of several international scientific journals. Erik has been a lead author of the report ‘The economics of Ecosystems and Biodiversity’ (TEEB) and served as an expert on biodiversity values and valuation for the Intergovernmental Platform on Biodiversity & Ecosystem Services (IPBES).



Dr Vladimir Grosbois, leader of Working Group 3 in the Network for Evaluation of One Health (together with Pr. Sandra Buttigieg), is a researcher in ASTRE: the animal health research group of CIRAD, the French research institute in agronomy for development. He worked for ten years as a quantitative ecologist, on the dynamics of wild animal populations in particular under the influence of climate change before becoming a quantitative epidemiologist at CIRAD. His current research topics include the epidemiology of animal diseases at the interface of wild and rural areas, the surveillance of animal diseases and the interpretation and analysis of observational data on animal diseases. His main research partners are located in South-East Asia, Southern Africa and Europe. His approaches are quantitative, implying a great deal of statistical modelling. He also teaches general statistics and specific statistical modelling methods in master programs in France and in partner countries such as Zimbabwe and Thailand but also in training sessions for researchers and professionals from the animal health and environment management/conservation sectors.



Dr Barbara Hässler, chair of the Network for Evaluation of One Health, is a veterinary researcher and senior lecturer in Agrihealth at the Royal Veterinary College, UK, with expertise in animal health economics, evaluation, food systems and One Health. Her main area of interest is the integration of economic, social and epidemiological aspects in animal disease mitigation to inform practical and feasible solutions for disease management in livestock food systems. She is particularly committed to research that focuses on the interconnectedness of the health of people, animals and the environment and the use of systems-based approaches that help to create co-benefits for various sectors and populations in a sustainable way. She holds a PhD in animal health economics, a postgraduate certificate in veterinary education and a postgraduate certificate in economics from the University of London, UK, and a doctorate in veterinary epidemiology and economics and a diploma of veterinary medicine from the University of Bern, Switzerland.

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Dr Zoran Katrinka holds degrees in Veterinary Medicine, Oriental Medicine and Epidemiology; further educational courses in Agri-Business Management, Environmental Protection and Systems Thinking in Public Health. He works and lives in Serbia, is employed in Insurance Industry, as Chief underwriter for livestock Insurance; serves as Forensic expert at the Court of Law; Program director for One Health at the Farm Development Foundation, Serbia. and Scientific expert for One Health at I-Arks.org. He is a former World Veterinary Association Councillor for Europe; Chair of Policy Committee and member of the Working Group on Zoonotic Diseases; Member of the Organizational Committee of the 1st WVA-WMA Global Conference on One Health, Madrid 2015.



Dr Hans Keune (PhD) is a Political Scientist (University of Amsterdam) with a PhD in Environmental Sciences (University of Antwerp). He works on critical complexity, inter- and transdisciplinarity, action research, expert elicitation and decision support; environment & health, ecosystem services, biodiversity & health, OneHealth/EcoHealth; with experience both in Belgian projects and EU-projects. He works at the Belgian Biodiversity Platform, the Research Institute for Nature and Forest (INBO) and Faculty of Medicine and Health Sciences of the University of Antwerp (chair Care and the Natural Living Environment). He recently coordinated the organization of the European OneHealth/EcoHealth workshop (Brussels Oct. 2016) and is involved in the emerging European OneHealth/EcoHealth Community of Practice. He is member of the Belgian delegation to the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES), Lead Author on the IPBES Regional Assessment Europe – Central Asia where he mainly contributes on health, governance and equity issues, and member of the EKLIPSE expert group on urban green space - mental health.



Dr Gabrielle Laing is a veterinary surgeon working in the UK Parliament as a researcher for Professor the Lord Trees (a cross bench peer and veterinary surgeon). Previously she has Policy Intern at the Royal Society, working on the 'Principles for evidence synthesis' project and around air quality. She completed her PhD in veterinary epidemiology in 2017 at the Institute of Infection and Global Health, University of Liverpool, completing her fieldwork in Ethiopia and publishing on the respiratory diseases affecting working horses. She is a member of NEOF working group 2 having co-authored one of the case studies. She authors and runs the Veterinary Policy Research Foundations website and twitter (@Vet_Policy), which holds evidence briefs (Factfiles) on current policy issues.



Prof. Ann Lindberg is State Epizootologist of Sweden and Head of the Dept. of Disease Control and Epidemiology at the National Veterinary Institute (SVA) in Uppsala. Her main activities and responsibilities are institutional preparedness for animal infectious agents of high significance, including epizootics and zoonoses, and development and implementation of national strategies for infectious disease surveillance and control in domestic and wild animals. Apart from management, she is involved in epidemiological research on epizootic and zoonotic pathogens, as well as on surveillance and disease control methodology and implementation, with past involvement in e.g. FP7 project RISKSUR and ANIHWA project SANTERO. She is also part of the Programme Management Team of the recently launched One Health European Joint Programme, where she leads the work package on Joint Integrative Projects, aiming at capacity building and preparedness across the public health-animal health interface.



Dr Stefano Morabito is the new director of the National and EU Reference Laboratory for *E. coli*, staff scientist at the Unit of Foodborne Zoonoses in the Department of Veterinary Public Health and Food Safety of the Istituto Superiore di Sanità. He is member of international committees and working groups (EFSA, CEN, ISO) on Microbial contamination of food and feed. He co-ordinated national research projects on *E. coli* virulence and evolution. He is scientific editor of journal of Medical Microbiology and Diagnosis and acts as reviewer for many journals of veterinary and medical microbiology. He is editor of the book "Pathogenic *Escherichia coli*: Molecular and cellular microbiology", published by Caister Academic Press and is author of about 50 publications on peer reviewed scientific journals.



Ms Agnes Yawe Nalugooti is the head of Grants and Resource Mobilization and Partnerships lead and also a thematic lead for One Health Workforce Development and policy communication at the One Health Central and Eastern Africa (OHCEA), located at Makerere University, Kampala-Uganda. She holds a master's degree in Social Sector Planning and Management, a BA majoring in Sociology of Makerere University, and a diploma in NGO management from Galilee College, Israel. Agnes has over 20 years of development work experience at national, regional and international levels; managing regional multi-sectoral and multi-cultural partnership projects, policy advocacy and community engagements in public health, Agriculture and rural development sectors. Six of these years have been involved in OH initiatives in eight countries in Africa, working to influence higher education systems in 16 universities and 8 member states in Africa to adopt multi-disciplinary and experiential learning and education approaches to produce field ready graduates for current health challenges. She has been involved in policy related work engaging continental bodies and regional economic blocks including East African Community (EAC), Common Markets for East and Southern Africa (COMESA) and African Union Commission (AUC).



Dr Hung Nguyen-Viet is the regional representative of International Livestock Research Institute (ILRI) for East and Southeast Asia and senior scientist in food safety and Ecohealth. His research focuses on the link between health and agriculture, food safety, infectious and zoonotic diseases with an emphasis on the use of integrative approaches (One Health and Ecohealth). He led a regional initiative to build Ecohealth field in Southeast Asia (FBLI 2012-2016). He co-founded and led the research center (CENPHER) at the Hanoi University of Public Health (HUPH) in Vietnam until 2013 where he is now an honorary professor. Prior to HUPH and ILRI, he did his postdoc with the Swiss Tropical and Public Health Institute, Basel, Switzerland, and research and teaching in France. He has published in the areas of food safety, Ecohealth, water sanitation health, and ecology. He received the 'Exceptional Early Career Contribution to the Field of EcoHealth' award in 2016 of the International Association for Ecology and Health (IAEH). He is a board member of IAEH, and an editor of several journals. He holds a BSc (Biology) from Vietnam and a PhD (Life and Environmental Sciences) from France.



Giulia Paternoster is a veterinary epidemiologist with a strong interest in public health, infectious and zoonotic diseases. She is interested in the science-policy interface, particularly in neglected tropical diseases affecting developing societies, and epidemiological methods and their practical application to health policies within a global and OH perspective. From 2012 to 2016, Giulia worked as epidemiologist in a veterinary public health institute (IZSLER, Italy) on different projects funded by the Italian Ministry of Health and related to veterinary epidemiology and public health. Between January and June 2017, she has worked as visiting researcher at Kansas State University (KSU, USA) on projects concerned with the development of risk assessment models for foreign animal diseases, and collaborated with KSU International Programs. Since July 2017, Giulia is a PhD candidate in Epidemiology and Biostatistics (Life Science Zurich Graduate School, Switzerland).



Prof. Katey Pelican, PhD, DVM, is an associate professor and head of the Ecosystem Health Division (in the College of Veterinary Medicine at the University of Minnesota), which focuses on improving health at the intersection of animals, humans and the environment (One Health). In 2009, Pelican became University Partner Co-Lead for the USAID funded RESPOND project to build global capacity for diseases emerging out of animal populations using One Health approaches. She continues that work as Senior Technical Officer on the One Health Workforce project, part of the USAID Emerging Pandemic Threats Program 2. She also has research projects focused on understanding health and disease at the human-livestock-wildlife interface in Africa, Panama, Chile, and Minnesota. As Lead for the Stone Mountain Meeting One Health Capacity Building Working Group, Dr. Pelican has additionally worked with USDA, the World Bank, CDC, and FAO to implement a new One Health Systems Mapping and Analysis Resource Toolkit (OH-SMART) that was piloted in Minnesota in 2013 and is now being launched as a part of the Global Health Security Agenda implementation plan for the US Department of Agriculture in the US and Indonesia.



Afifah Rahman-Shepherd, Research Analyst, Centre on Global Health Security, Chatham House, has an MSc in the Control of Infectious Diseases from the London School of Hygiene and Tropical Medicine. As Research Analyst with the Centre, she conducts and coordinates research into several ongoing projects in the field of One Health. Prior to this role, Afifah was involved in infectious disease outbreak control and investigation at the Centre for Global Health Research and Education, Institut Pasteur Paris.



Dr Simon Rüegg, leader of Working Group 1 in the Network for Evaluation of One Health (together with Jakob Zinsstag), is an animal health researcher from the University of Zürich, Switzerland. After his veterinary medicine degree, he completed a doctorate (DVM) and a PhD in epidemiology, biostatistics and molecular diagnostics of tick-borne equine piroplasmoses. Through field projects in southern Mongolia and as a veterinary practitioner, he gained a solid understanding of practical aspects of veterinary medicine and epidemiology. From 2013 he worked as researcher at the Veterinary Public Health Institute in Bern investigating the cost-effectiveness of surveillance for vector-borne diseases. In September 2013, he joined the Veterinary Epidemiology Group in Zürich as senior research assistant, lecturer and statistics consultant. His research interest is the application of the theory of complex adaptive systems to health questions, in particular its impact on medical decision making; the relation between scientific, emotive, financial, ethical and social aspects; the sustainability of medical practices; and how to promote new integrated approaches to health.



Dr Sara Savic, PhD, DVM is Head of Department of serology, immunology and biochemistry, at the Scientific Veterinary Institute "Novi Sad" in Novi Sad, Serbia. She works in a lab in charge of zoonoses, infectious diseases of animals and also vector borne diseases. Dr Savic graduated as DVM at Faculty of Veterinary Medicine, University of Belgrade, Serbia in 1994, MSc in Microbiology and infectious diseases in 2001 at the same faculty, and PhD at the Faculty of agriculture, Department for Veterinary Medicine at University of Novi Sad in 2010. Today she works as a Senior Research Associate at the Scientific Veterinary Institute. Her research is mainly on zoonoses, especially on vector borne zoonoses such as Lyme borreliosis, dirofilariosis and leishmaniasis, from the perspective of public health. She has authored and co-authored many articles in peer-reviewed veterinary and health journals and acts as reviewer of several journals in animal health care. She has been involved in One Health as a topic since 2013, trying to promote the OH approach in Serbia and in Europe.



Prof. Vlatko Ilieski graduated from the Veterinary Faculty in Zagreb, Croatia, received his PhD at the Faculty of Veterinary Medicine in Skopje and specialisation in Animal Welfare as De facto specialist at the European college for Animal welfare, Ethics and Law. As university professor he is a lecturer for undergraduate studies for veterinary medicine with significant international experience. He has international teaching experiences as visiting professor at University of Ljubljana, Zagreb teaching animal welfare. Member of the doctoral program “Model Organisms” in Biomedical and Veterinary Research at the University of Naples, Federico II, Italy. His scientific research work is in the field of functional morphology with a special emphasis on the protection and welfare of animals. The main research activities relate to the assessment of animal welfare with various types of housing systems and different herd size ranging from free range on pasture to intensive tie stall farming. These activities are accompanied with implementation of animal welfare assessment protocol He has been part of several international programmes for training the trainer programs for education of stakeholders with impact on quality of education and research especially in establishing cooperation of universities with public sector.



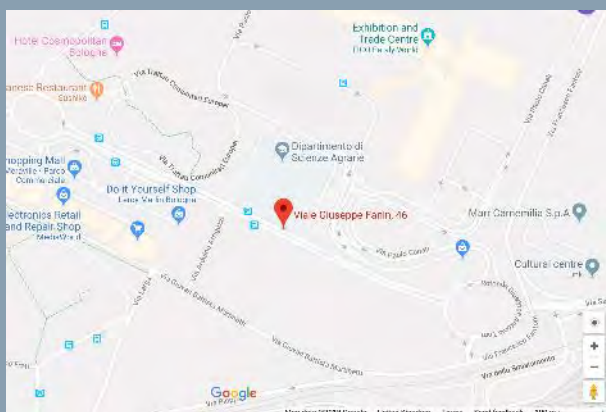
Dr Jeff Wilson, DVM, PhD, is President of Novometrix Research Inc. and Adjunct Professor, Department of Population Medicine, Ontario Veterinary College, University of Guelph. He provides consulting services for public health, animal health, and environmental health. Results of his activities have led to specific government and commodity group policy changes, response protocol development, product approvals and withdrawals, and a variety of other significant outcomes. His work focuses on initiating interdisciplinary collaboration between networks of people to drive towards integrated, full value solutions which work for all stakeholders involved



Prof. Jakob Zinsstag is a veterinarian with a PhD in tropical animal health. He spent eight years in West Africa at the International Trypanotolerance Centre in The Gambia and four years as the director of the Centre Suisse de Recherches Scientifiques in Côte d'Ivoire. Since 1998 he heads a research group on human and animal health at the Swiss Tropical and Public Health Institute. Since 2011 he is deputy head of department of Epidemiology and Public Health at Swiss TPH. He focuses 1) on the control of zoonoses in developing countries, specifically rabies, brucellosis and bovine tuberculosis; and 2) on the provision of health care to mobile pastoralists in Africa and Asia. He is the president of the scientific advisory board of the transdisciplinarity network (www.transdisciplinarity.ch) and a member of the steering committee of sustainability research of the Swiss Academies of Science. He has been nominated to co-Chair an Expert Group of the OECD Global Science Forum (GSF) on transdisciplinary research environments. He is an editor of the book “One Health: The theory and practice of integrated health approaches” (www.cabi.org/bookshop/book/9781780643410).

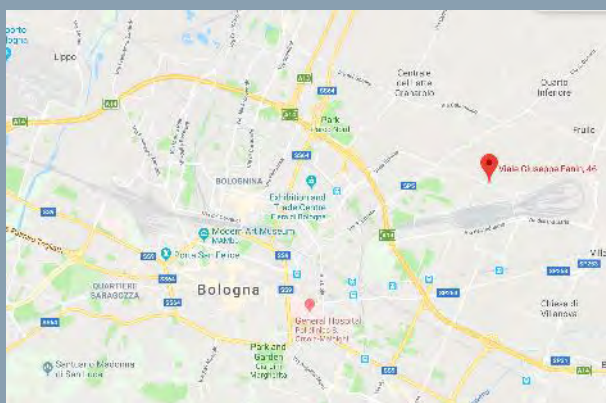
CONFERENCE VENUE

The Conference takes place in the Conference Hall (**Aula Magna**) of the **Department of Agricultural and Food Sciences (Dipartimento di Scienze e Tecnologie Agro-Alimentari - DISTAL)** of the University of Bologna, located in **Bologna, Viale Giuseppe Fanin n. 44**. The Conference Hall is in the north wing of the DISTAL department building, with access from the courtyard.



From Bologna Centrale railway station: the bus n. 35 (direction: *Fiera/Facoltà di Agraria*) leaves just in front of the station and stops in front of the DISTAL department building (bus stop *Facoltà di Agraria*) after about a 30' trip.

From the city centre (Piazza Nettuno, via Indipendenza, via Innerio) you can take the **bus line n. 20** (direction: *Pilastro*). Get off the bus at the bus stop *Deledda* (about 20' from city centre).

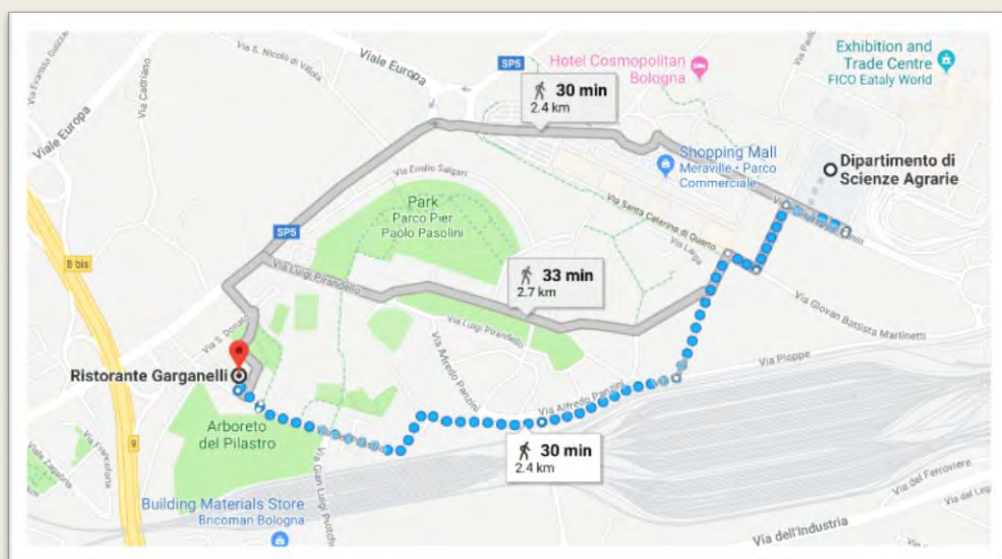


Bus tickets can be purchased at ticket machines, tobacco shops and newsstands (1.30 €) and on board (1.50 €). For more information on tickets and prices visit the [TPER website](#).

SOCIAL PROGRAMME

MONDAY CONFERENCE DINNER (booked at time of registration):

The Garganelli restaurant (Savoia-Regency Hotel) is at a distance of 2.5 km from the conference venue (30 minute walk) or is reachable with bus lines 20 and 35 from the city centre or with bus line 35 from the conference venue (15 min ride). If you plan to use the bus for going to the restaurant and/or coming back to your hotel, we suggest you buy tickets in advance.



TUESDAY TOUR & APERITIF AT FICO-EATALY WORLD:

FICO-EATALY is the permanent exposition of the Italian food just 5 minutes walk from the Conference venue and offers the largest choice of Italian specialties in regional restaurants and stands. The guided tour includes a visit at a Parmigiano-Reggiano dairy and an aperitif. The cost will be paid directly by participants at the FICO premises just before the visit.



NEOH HANDBOOK

This handbook is the product of an interdisciplinary effort to provide science-based guidance for the evaluation of One Health and other integrated approaches to health. It guides the reader through a systems approach and framework to evaluate such approaches in a standardised way. It provides an overview of concepts and metrics from health and life sciences, social sciences, economics, and ecology that are relevant for the evaluation of the processes involved, as well as the characterisation of expected and unexpected outcomes of One Health initiatives. Finally, the handbook provides guidance and practical protocols to help plan and implement evaluations in order to generate new insights and provide meaningful information about the value of One Health.

The book is available as open access and downloadable from Wageningen Academic Publishers: <http://www.wageningenacademic.com/neh>

THE FUTURE OF NEOH

The NEOH project has been a resounding success in many ways, one being the development of new and strong working relationships between many of the people involved in One Health in Europe. Many NEOH members expressed the desire to continue to grow these relationships in some formal and sustainable way and so a small group formed to develop a plan for a new organization to continue NEOH's momentum.

The group, called the NEOH2 working group, developed some guiding principles:

1. NEOH2 should be a European based network but not restricted to Europe, rather NEOH2 will extend its membership and activities to other One-Ecohealth organizations globally. Member ship should be as broad as possible.
2. NEOH2 should be unique, not "just another One Health" organization. NEOH2 should focus on actions that make a difference.

The NEOH2 working group proposed a vision statement based on the commitment of NEOH members to One Health-Ecohealth, transdisciplinarity and systems thinking, to guide the future direction of the new organization:

"We envision a world where people, animals and the environment are recognized as being interconnected; and transdisciplinary, systems thinking methods, and integrated approaches are universally practiced for understanding, maintaining and improving the health of all."

The working group considered several options for a governance structure for the new organization, and proposed that the new organization should join **Ecohealth International** by becoming the **European Chapter of Ecohealth International**. The purpose and goals of



Ecohealth International and the ecosystem approach to health closely aligns with those of many NEOH members. There are many strategic advantages to working with Ecohealth International including the opportunity for developing new working relationships on a global scale and having one united organization for One Health and Ecohealth in Europe.

The name proposed for the new organization is the **Network for Ecohealth and One Health**. The name includes the terms Ecohealth and One Health which recognizes the adoption of both concepts by the new organization.

Any questions or interest in joining? Please talk to John Berezowski, Barbara Häsler, Sara Savic, Liza Rosenbaum Nielsen and/or Elena Boriani.

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GREASE



Change comes from listening,
learning, caring and conversation.

Gwen Ifill

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Hans Keune, Belgian Community of Practice on Biodiversity and Health



**Network
for Evaluation
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