

ISESSAH 2023 preliminary scientific programme

Conference venue: Viikki campus, Latokartanonkaari 9, Helsinki, Finland ([Map](#))

Tuesday, June 13th, 2023

11:00- Registration desk open

13:00- Welcome & opening the conference

14:30 Session 1: Experimental economics and stakeholder behaviour

Lecture hall B1

13:15 Invited talk: Exploring the Potential of Experimental Economics to Improve Animal Health Outcomes: Recent Advances and Future Directions

Jens Rommel, Associate Professor at Decision-making and Managerial Behavior research group, Department of Economics, Swedish University of Agricultural Sciences, Sweden

13:45 Psychosocial factors associated with farmer behaviour in a disease epidemic

Naomi S. Prosser¹, Edward M. Hill^{2,3}, Paul E. Brown^{1,4}, Jasmeet Kaler¹, Eamonn Ferguson^{5,6}, Michael J. Tildesley^{2,3}, Matt Keeling^{2,3}, Martin J. Green¹

¹School of Veterinary Medicine and Science, University of Nottingham, United Kingdom, ²The Zeeman Institute for Systems Biology and Infectious Disease Epidemiology Research, School of Life Sciences and Mathematics Institute, University of Warwick, United Kingdom, ³Joint UNiversities Pandemic and Epidemiological Research, ⁴Bioinformatics Research Technology Platform, University of Warwick, United Kingdom, ⁵School of Psychology, University Park, University of Nottingham, United Kingdom, ⁶National Institute for Health and Care Research Blood and Transplant Research Unit in Donor Health and Behaviour, University of Cambridge, United Kingdom

14:00 Assessing hunters' participation in zoonotic diseases surveillance using an experimental game

Aude Pouliquen¹, Gilles Aurélien Boupana Mapeyi¹, Hadrien Vanthomme², Marie-Marie Olive¹, Daniel Cornelis², Sebastien Lebel², Gael Darren Maganga³, Marisa Peyre¹, Alexis Delabougli¹

¹CIRAD, UMR ASTRE, France, ²CIRAD, UMR Forêts et Sociétés, France, ³Centre Interdisciplinaire de Recherche Médicale de Franceville, Gabon

14:15 Information asymmetry and its influence on consumer perceptions for farm animal health and welfare

Maria Rodrigues, Nicholas Hanley, University of Glasgow, United Kingdom

14:30-

15:00 Coffee break

15:00- Parallel session 2A: Perspectives to veterinary work

Lecture hall B1

15:00 The MAP (motivation, action, prompts) Model: A tool to structure behaviour change conversations on farm,

Alison M.G. Burrell¹, Laura Gribben², Áine Regan³, Moira Dean¹

¹Animal Health Ireland, Ireland, ²Queen's University Belfast, United Kingdom ³Teagasc, Ireland

15:15 Implementing a National Veterinary Prescribing Champion Programme for Welsh Veterinary Practices: Arwain DGC

Gwenllian Rees, Aberystwyth University, Wales

15:30 Solving dilemmas during the annual health check-up in French organic dairy farming: an analysis of vet activity through video-recording and self-confrontation

Florence Bonnet-Beaugrand¹, Nathalie Bareille¹, Julie Duval², Jeanne Gautier¹, Nathalie Girard³, Lucie Gouttenoire², Raphaël Guatteo¹, Marion Guillot², François Johanny², Claire Masson⁴, Lorène Prost⁵, Anaïs Loizon⁴

¹Oniris & INRAE, BIOEPAR, France, ¹Université Clermont Auvergne, AgroParisTech, INRAE, VetAgro Sup, UMR Territoires, France, ³INRAE, UMR AGIR, France, ⁴UR FOAP, Agrosup Dijon, France, ⁵INRAE, UMR SADAPT & AgroParisTech, France

15:45 **The configuration of the "ideal veterinarian": Individual and collective embodied skills of veterinarians focusing on French poultry production**

Sebastian Moya¹, Gareth Enticott², Mathilde Paul¹

¹INRAE, France, ²Cardiff University, United Kingdom

16:00 **Are veterinary students ready to use antibiotics? – A Swedish perspective**

Therése Granlund¹, Ulf Emanuelson¹, Isabel Blanco-Penedo^{1,2}, Gabriela Olmos Antillón¹

¹Veterinary Epidemiology Unit, Department of Clinical Sciences, Swedish University of Agricultural Sciences, Sweden, ²Department of Animal Sciences, Universidad de Lleida, Spain

15:00- Parallel session 2B: Technology

16:15 Lecture hall B2

15:00 **Building on the old foundations - prospects for digitalization of cattle health sector,**

Ants-Hannes Viira¹, Martin Kukk¹, Hardi Tamm², Anne Pöder², Pekka Kilpeläinen³, Tuija Kallio³, Elisa Tikkanen³, Per-Ola Ulvenblad⁴, Pia Ulvenblad⁴, Henrik Barth⁴, Natascha Schlereth⁵, Getachew Abate Kassa⁵

¹Estonian University of Life Sciences, Estonia, ²Estonian Dairy Cluster, Estonia, ³University of Oulu, Finland, ⁴Halmstad University, Sweden, ⁵Technical University of Munich, Germany

15:15 **AMU recording on Irish dairy farms: barriers & facilitators to using technology**

Hannah Martin, Laura Gribben¹, Alison Burrell², Aine Regan³, Conor McAloon¹

¹School of Veterinary Medicine, University College Dublin, Ireland, ²Institute for Global Food Security, School of Biological Sciences, Queen's University Belfast, United Kingdom, ³Animal Health Ireland, Ireland, ⁴Department of Agri-food Business & Spatial Analysis, Teagasc, Ireland

15:30 **Farmers' perspective to Precision Livestock Farming system innovations that can support animal health management**

Caspar Krampe¹, Jordi Serratos², Jarkko K. Niemi³, Paul T. M. Ingenbleek¹

¹Marketing and Consumer Behaviour Group, Department of Social Science, Wageningen University and Research, The Netherlands, ¹Research Park Universitat Autònoma de Barcelona, Universitat Autònoma de Barcelona, Spain, ³Bioeconomy and Environment, Natural Resource Institute Finland (Luke), Finland

15:45 **Economic and welfare trade-offs with sub-optimal mobility classification algorithms**

Francis Edwardes, Mariska van der Voort, Henk Hogeveen

Business Economics Group, Department of Social Sciences, Wageningen University and Research, the Netherlands

16:00 **Economic efficiency of using sensing technologies to monitor the welfare of growing pigs**

Anna H. Stygar¹, Matti Pastell¹, Pol Llonch², Eddie A.M. Bokkers³, Jacinta D. Bus³, Iris. J.M.M. Boumans³, Lene Juul Pedersen⁴, Jarkko K. Niemi¹

¹Natural Resources Institute Finland (Luke), Finland, ²Universitat Autònoma de Barcelona, Spain, ³Animal Production Systems Group, Wageningen University and Research, the Netherlands, ⁴Department of Animal Science, Aarhus University, Denmark

16:00- Break
16:15

Session 3: Flash presentations & poster session

16:30-17:00 Flash presentations (poster and 3 minutes short presentation on the stage)
Lecture hall B1

- 1 **Estimating the cost of Asian Seabass (*Lates calcarifer*) on marine cage culture that include costs of oral vibriosis vaccination,**
Norhariani Mohd Nor, Arbania binti Ali, Jumria binti Sutra, Ina Salwany Md. Yassin, Mohammad Noor Amal Azmai and Siti Hajar Mohd Yazid
Aquatic Animal Health and Therapeutics Laboratory (Aquahealth), Institute of Bioscience, Universiti Putra Malaysia, Malaysia.
- 2 **Exploring perceptions of and attitudes towards Bluetongue disease: A multi-stakeholder interview study**
Ursula Kenny¹, June Fanning², Damien Barrett²
¹Teagasc, Ireland, ²Department of Agriculture, Food and the Marine, Ireland,
- 3 **Through the lens of social science: why some people do not seek post-exposure prophylaxis after being bitten by dogs**
Anuwat Wiratsudakul¹, Jitjayang Yamapai², Patoo Cusripituck², Theerawan Mingbualuang², Nareerat Sangkachai¹, Wimwiga Sakchainanon³, Chanatda Tungwongjulaniam³, Onphirul Yurachai³, Ratana Theerawat³
¹Faculty of Veterinary Science, Mahidol University, Thailand, ²Research Institute for Languages and Cultures of Asia, Mahidol University, Thailand, ³Division of Communicable Diseases, Department of Disease Control, Ministry of Public Health, Thailand
- 4 **The impact of Peste des Petits Ruminants in smallholder systems of Nigeria,**
Ladi Chabiri¹, Victoria Isioma Ifende², Muhammad Bashir Bolajoko², Joshua Kachiro³, Mathew Gukut², Usman Rayyanu², Mayowa Olabode², Nengak Gokir Ishaku³, Andrea Apolloni³, Abdrahmane Wane⁵, Rebecca Weka¹, Chika Nwosuh¹, Thomas Duniya Bidol³, Marion Bordier⁴, Alexis Delabouglise⁴
¹National Veterinary Research Institute, Nigeria, ²National Veterinary Research Institute, Nigeria, ³National Agricultural Extension and Research Liaison Service, Nigeria, ⁴CIRAD, UMR ASTRE, France, ⁵International Livestock Research Institute, Kenya
- 5 **The economic impact of Peste des Petits Ruminants in Central Anatolia region of Turkey,**
Işık Erşan¹, Engin Sakarya², Arzu Peker²
¹Ministry of Agriculture and Forestry General Directorate of EU and External Relations, Turkey, ²Department of Animal Health Economics and Management, Faculty of Veterinary Medicine, Ankara University, Turkey
- 6 **Behavioral adaptations to handle mastitis outbreaks in dairy production**
Nina Lind¹, Suvu Kokko¹, Catarina Svensson², Helena Hansson¹, Ulf Emanuelson², Carl Johan Lagerkvist¹
¹Department of Economics, Swedish University of Agricultural Sciences, Sweden, ²Department of Clinical Sciences, Swedish University of Agricultural Sciences, Sweden
- 7 **Farmers' Knowledge, Attitudes, and Practices Regarding the Best Management Practices in Shrimp Farming in Sri Lanka**
M.N.D.F Abeykoon¹, Keisuke Kato¹, Sajiki Takahiro², Hiroichi Kono³.
¹Obihiro University of Agriculture and Veterinary Medicine, Graduate School of Animal and Veterinary Sciences and Agriculture, Japan, ²Japan Fisheries Research and Education Agency, Fisheries Technology Institute, Japan, ³Obihiro University of Agriculture and Veterinary Medicine, Department of Agro-environmental Science, Japan
- 8 **Value extraction dynamics and zoonotic disease risks: Roles, practices, and relations along poultry production and distribution networks in Bangladesh**
Ivo Syndicus¹, Nusrat Irin², Abdullah Al Sattar², Afsana Sultana^{2,3}, Shahriar Saif^{2,3}, Meherjan Islam², Easrat Jahan Esha², Syeda Munira Dilshad², Fatema Jannat², Mahmudul Hasan³, Md Helal Uddin³, Jinnat Ferdous⁴, Mahabub Alam², Md Abdus Samad³, Joerg Henning⁴, Pablo Alarcon¹, Guillaume Fournie^{1,5}, Rashed Mahmud², Md Ahasanul Hoque², Tony Barnett¹

¹Royal Veterinary College, United Kingdom, ²Chattogram Veterinary and Animal Sciences University, Bangladesh, ³Bangladesh Livestock Research Institute, Bangladesh, ⁴University of Queensland, Australia, ⁵National Research Institute for Agriculture, Food and Environment (INRAE), France

17:00-

Posters

18:00

Building A, lobby

1

Class-differentiated restriction of therapeutic antibiotics and farmers economic performance: Evidence from Denmark

Yechale Getu Endalew, Jørgen Dejgård Jensen, Dagim Belay
University of Copenhagen, Denmark

2

Knowledge, attitude and behaviour of Dutch dairy farmers regarding reproductive hormone use.

A. Wicaksono^{1,2}, B. van den Borne^{1,3}, W. Steeneveld⁴, T. van Werven^{4,5}, H. Hogeveen¹
¹Business Economics Group, Department of Social Sciences, Wageningen University and Research, the Netherlands, ²Veterinary Public Health and Epidemiology Division, School of Veterinary Medicine and Biomedical Sciences, IPB University, Indonesia, ³Quantitative Veterinary Epidemiology Group, Department of Animal Sciences, Wageningen University and Research, the Netherlands, ⁴Faculty of Veterinary Medicine, Department of Population Health Sciences, Section Farm Animal Health, Utrecht University, the Netherlands, ⁵University Farm Animal Practice, the Netherlands

3

Rural farmers knowledge, attitudes and practice towards theileriosis prevalence and control in Mhondoro Ngezi Zimbabwe

Shelton M Nhokwara¹, Hiroichi Kono², Satoko Kubota², Mark Jubekanda³
¹Doctor Program of Animal Science and Agriculture, Obihiro University of Agriculture and Veterinary Medicine, Japan; ²Department of Agro-environmental Science, Obihiro University of Agriculture and Veterinary Medicine, Japan; ³Department of Veterinary Services, Ministry of Lands, Agriculture, Fisheries, Water, Climate and Rural Development, Zimbabwe

4

Perceptions of commercial and household pigkeepers regarding African swine fever and the control measures in Estonia and Ukraine – a participatory approach

Lidiia Moskalenko¹, Katja Schulz², Vitalii Nedosekov³, Kerli Mõtus¹, Arvo Viltrop¹
¹Estonian University of Life Science, Institute of Veterinary Medicine and Animal Sciences, Estonia, ²Friedrich-Loeffler-Institut (FLI), Institute of Epidemiology, Germany, ³National University of Life and Environmental Sciences of Ukraine, Ukraine

5

A Co-Creation model to find actionable solutions to One Health challenges

Martin Heilmann¹, Amira Abdelnabi², Lina Abdalla², Stephen Gikonyo³, Tabitha Kimani³, Joy Kiplamai³, Orsolya Mikecz¹, Frank Mubiru⁴, Gerald Nizeyimana⁴, Damian Tago Pacheco⁵, Ugo Pica-Ciamarra¹

¹Food and Agriculture Organization (FAO), Italy, ²Emergency Centre for Transboundary Animal Diseases / Food and Agriculture Organization of the United Nations (FAO), Egypt, ³Food and Agriculture Organization (FAO), Kenya, ⁴Food and Agriculture Organization (FAO), Uganda, ⁵Regional Office for Asia and the Pacific / Food and Agriculture Organization of the United Nations (FAO), Thailand (ประเทศไทย)

6

The innovative side of the urban interaction among animals and human stakeholders: building a Hum-Animal smart city in Lucca

Giulia Granai¹, Carmen Borrelli¹, Roberta Moruzzo¹, Massimo Rovai², Francesco Riccioli¹, Chiara Mariti¹, Francesco Di Iacovo¹

¹Department of Veterinary Science, University of Pisa, Italy, ²Department of Civil and Industrial Engineering, University of Pisa, Italy

- 7 **Training, motivation, and feedback culture in milk production**
Michael Farre¹, Carsten Kirkeby¹, Volker Krömker¹, Erik Rattenborg², Henk Hogeveen³,
¹University of Copenhagen, Denmark, ²SEGES Innovation P/S, Denmark
³Wageningen University, the Netherlands
- 8 **Economic externality and human behaviour behind Zoonosis -A Case of Bovine Tuberculosis in Madagascar**
Hiroichi Kono¹, Tiana N. Randruanantoandro², Holy F. Ranaivorisoa², Modestine Raliniaina³,
Diana E. Andria-Mananjara³, Domoina O. Rakotomanana³
¹Obihiro University of Agriculture and Veterinary Medicine, Department of Agro-
environmental Science, Japan, ²Université d'Antananarivo, Ecole Supérieure des Sciences
Agronomiques, Department of Agro-Management, Madagascar, ³Centre nationale de
recherche appliquée au développement rural, Département de recherche zootechnique,
vétérinaire et piscicole, Madagascar
- 9 **Identification of the foodborne hazards present in food and beverages in the Kingdom of Cambodia from 2000 to 2022: a systematic literature review**
Shwe Phue San¹, Linda Nicolaidis¹, Delia Grace^{1,2}, Rortana Chea³, Kristina Roesel²
¹Natural Resources Institute, University of Greenwich, England, ²International Livestock
Research Institute, Kenya, ³General Directorate of Animal Health and Protection, Kingdom of
Cambodia
- 10 **Socioeconomic characteristics that influence the development of dairy farms in Alto Putumayo, Colombia**
Bibiana Benavides B¹, Álvaro Dorado M², Madelyn Matabanchoy S².
¹Animal Health department, University of Nariño, Colombia, ²Psychology department,
University of Nariño, Colombia
- 11 **Social network analysis and artificial Informational asymmetry: control and prevention of theileriosis in rural areas in Zimbabwe**
Shelton M Nhokwara¹, Hiroichi Kono², Satoko Kubota², Mark Jubekanda³
¹Doctor Program of Animal Science and Agriculture, Obihiro University of Agriculture and
Veterinary Medicine, Japan, ²Department of Agro-environmental Science, Obihiro University
of Agriculture and Veterinary Medicine, Japan, ³Department of Veterinary Services, Ministry of
Lands, Agriculture, Fisheries, Water, Climate and Rural Development, Zimbabwe
- 12 **Bioeconomic stochastic model of the consequences of paratuberculosis in a typical small Slovenian herd**
Tanja Knific¹, Jörn M. Gethmann², Andrej Kirbiš², Matjaž Ocepek³
¹Institute of Food Safety, Feed and Environment, Veterinary Faculty, University of Ljubljana,
Slovenia, ²Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Institute of
Epidemiology, Germany, ³Institute of Microbiology and Parasitology, Veterinary Faculty,
University of Ljubljana, Slovenia
- 13 **How does the commercialization of milk influence the implementation of sanitary programs in dairy farms of Alto Putumayo?**
Bibiana Benavides B¹, Álvaro Dorado M², Madelyn Matabanchoy S².
¹Animal Health department, University of Nariño, Colombia, ²Psychology department,
University of Nariño, Colombia
- 14 **Impact and farmer perception of sheep and cattle endemic diseases in Great Britain**
L. Whatford¹, S. Van Winden¹, S. Payne-Gifford², R. Cooke², A. Qi², D. Barling², B. Häsler¹
¹Royal Veterinary College, United Kingdom, ²University of Hertfordshire, United Kingdom.
- 15 **A case-control study on farm factors associated with a Yellow Card in Danish pig herds with weaned piglets.**
Anne-Sofie Glavind¹, Amanda Brinch Kruse², Helle Stege²

- ¹Department of Veterinary and Animal Sciences, University of Copenhagen, Faculty of Health and Medical Sciences, Denmark
- ²Department of Veterinary and Animal Sciences, University of Copenhagen, Denmark
- 16 **A pilot study evaluating a model for benchmarking Danish veterinarians on prescribed antimicrobials**
Amanda Brinch Kruse, Alice Puk Skarbye, Jeanette Kristensen.
Department of Veterinary and Animal Sciences, University of Copenhagen, Denmark
- 17 **A scoping review on the impact of bovine paratuberculosis on production parameters and economic effects**
Silja Griss¹, Tanja Knific², Anne Buzzel-Hatav¹, Luís Pedro Carmo³, Gertraud Schüpbach¹, Mireille Meylan⁴, Matjaž Ocepek², Beat Thomann¹
¹Veterinary Public Health Institute, Vetsuisse Faculty, University of Bern, Switzerland, ²Veterinary Faculty, Institute of Food Safety, Feed and Environment, University of Ljubljana, Slovenia, ³Norwegian Veterinary Institute, Norway, ⁴Clinic for Ruminants, Vetsuisse Faculty, University of Bern, Switzerland
- 18 **Communal farmer's knowledge, perception and practice of foot-and-mouth disease (FMD) in the FMD control zone of South Africa**
Kibambe Daddy¹, Eric Etter^{1,2}, Petronella Chaminuka³, Alexis Delabougli⁴, Geoffrey Fosgate¹
¹Department of Production Animal Studies, Faculty of Veterinary Science, University of Pretoria, South Africa, ²Animal health Territories Risks Ecosystems ASTRE, CIRAD, CRVC-Centre for Research and surveillance on Vector-borne diseases in the Caribbean Domaine Duclos-Prise d'Eau, France, ³Agricultural Research Council, Economic Analysis Unit, South Africa, ⁴Animal health Territories Risks Ecosystems ASTRE, CIRAD, France.
- 19 **Exploring animals' keeping practices in rural households: A qualitative study in Nanoro, Burkina Faso**
Adélaïde Compaoré¹, Salla Sariola²
Institut de Recherche en Sciences de la Santé/Clinical Research Unit of Nanoro, Burkina Faso
Institute of Tropical Medicine, Belgium & Université Saint Louis-Bruxelles, Belgium
²University of Helsinki, Finland
- 20 **Biosecurity gaps in seven major poultry producers (breeder and layer farms) in EU- a farmers perspective**
Arthi Amalraj¹, Hilde Van Meirhaeghe², Rozenn Souillard³, Artur Zbikowski³, Jeroen Dewulf¹
¹Faculty of Veterinary Medicine, Ghent University, Belgium, ²Vetworks BV, Belgium, ³ANSES French Agency for Food, Environmental and Occupational Health & Safety, Epidemiology, Health and Welfare Unit, France, ⁴Warsaw University of Life Sciences, Poland
- 21 **Do the attitudes and personality of calf care workers affect calf mortality?**
Dagni-Alice Viidu¹, Eamonn Ferguson², Tanel Kaart¹, Kerli Mõtus¹
¹Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Estonia, ²School of Psychology, University of Nottingham, Nottingham, United Kingdom
- 22 **Measurement of Organizational Agility Using Fuzzy Agility Index, Case Study: Amul Saleh Dairy Company**
Ahmad Bathaei, Dalia Streimikiene
Lithuanian Centre for Social Sciences, Institute of Economics and Rural Development
- 23 **Drivers for infectious disease transmission on pig farms and its early warning: perspectives from simulation modelling**
Younjung Kim¹, Dirk Udo Pfeiffer², Pierre Nouvellet³
¹Department of Evolution, Behaviour, and Environment, School of Life Sciences, University of Sussex, UK, ²Department of Infectious Diseases and Public Health, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Hong Kong SAR & Department of Pathobiology and Population Sciences, Royal Veterinary College, UK, ³Department of Evolution, Behaviour, and Environment, School of Life Sciences, University of

Sussex, Brighton, UK & Department of Infectious Disease Epidemiology, School of Public Health, Imperial College London, UK

24 **Evaluating methodologies to explore antibiotic use on smallholding pig farms in peri-urban Kenya**

Claire Scott¹, Nicholas Bor², Irene Bueno¹, Dishon Muloi^{2,3}, Max Korir², Kristen K Reyher¹, Henry Buller⁴, Lian F Thomas^{2,5}

¹University of Bristol, ¹International Livestock Research Institute, ³University of Edinburgh, ⁴University of Exeter, ⁵University of Liverpool

25 **Biosecurity enhanced through training evaluation and raising awareness**

Alberto Allepuz¹, Ilias Chantziaras², Maria Eleni Filippitzi³, Joze Staric⁴, Jasna Prodanov⁵, Maria Rodrigues Costa⁶, Lena-Mari Tamminen⁷, Claude Saegerman⁸, Telmo Nunes⁹, Giovanna Ciaravino¹, Miroslav Kjosevski¹⁰, Tarmo Niine¹¹, Jarkko Niemi¹², Zahra Ardakani¹³

¹Universitat Autònoma de Barcelona, Spain, ²Ghent University, Belgium, ³Aristotle University of Thessaloniki, Greece, ⁴University of Ljubljana, Slovenia, ⁵Scientific Veterinary Institute "Novi Sad", Serbia, ⁶Scotland's Rural College, United Kingdom, ⁷Swedish University of Agricultural Sciences, Sweden, ⁸University of Liege, Belgium, ⁹Faculdade de Medicina Veterinária, Universidade de Lisboa, Portugal, ¹⁰Faculty of Veterinary Medicine, Ss. Cyril and Methodius University in Skopje, North Macedonia, ¹¹Estonian University of Life Sciences, Estonia, ¹²Natural Resources Institute Finland (Luke), Finland, ¹³University of Bologna, Italy

18:00- Welcome reception

19:30 Building A, lobby

Wednesday, June 14th, 2023

9:00-10:30	Session 4: Economics, modelling and biosecurity <i>Lecture hall B1</i>
9:00	Invited talk: Modelling and biosecurity <i>Arnaud Rault, Researcher focussing on animal health economics at Oniris, BIOEPAR (Biology, Epidemiology and Risk Analysis of Animal Health unit), National Research Institute for Agriculture, Food and Environment (INRAE), France</i>
9:30	Economic assessment of post-outbreak surveillance strategies in emergency vaccination foot-and-mouth disease outbreak control in Austria <i>Tatiana Marschik¹, Ian Kopacka², Friedrich Schmoll³, Simon Stockreiter⁴, Andrea Höflechner-Pörtl⁵, Annette Nigsch³, Annemarie Käsbohrer^{1,5}</i> <i>¹Institute of Food Safety, Food Technology and Veterinary Public Health, Unit of Veterinary Public Health and Epidemiology, University of Veterinary Medicine, Austria, ²Division for Data, Statistics and Risk Assessment, Austrian Agency for Health and Food Safety (AGES), Austria, ³Division for Animal Health, Austrian Agency for Health and Food Safety (AGES), Austria, ⁴Crisis Unit for Veterinary- and Food Safety-Related Affairs, Federal Ministry of Social Affairs, Health, Care and Consumer Protection of Austria, Austria, ⁵Unit of Animal Health and Disease Control, Border Control Service and Trade in Live Animals, Federal Ministry of Social Affairs, Health, Care and Consumer Protection of Austria, Austria, ⁵Department Biological Safety, Unit Epidemiology, Zoonoses and Antimicrobial Resistance, German Federal Institute for Risk Assessment, Germany</i>
9:45	Veterinary coaching to stimulate biosecurity compliance <i>Hilde Van Meirhaeghe¹, Arthi Amalraj², Maarten De Gussem¹, Jeroen Dewulf²</i> <i>¹Vetworks BV, Belgium; ²Ghent University, Belgium</i>
10:00	Economic and environmental impacts of extending dairy cattle longevity by reproductive management <i>Ruozhu Han, Akke Kok, Monique Mourits, Henk Hogeveen</i> <i>Business Economics Group, Department of Social Sciences, Wageningen University and Research, the Netherlands</i>
10:15	Improved health management reduces enteric methane emission in a cost-effective manner in a dairy herd - a herd simulation study <i>Søren Østergaard, Vivi M. Thorup, Long Chen, and Anne B. Kudahl</i> <i>Department of Animal and Veterinary Sciences, Aarhus University, Denmark</i>
10:30-11:00	Coffee break
11:00-12:15	Parallel session 5A: Farm-level modelling <i>Lecture hall B1</i>
11:00	An empirical analysis of the effect of milk quality parameters on the economic performance of smallholder dairy farms in West Java, Indonesia <i>Achmad Fadillah^{1,2}, Bart van den Borne^{1,3}, Ynte H. Schukken^{3,4}, Thomas Slijper¹, Okti Nadia Poetri⁵, Henk Hogeveen¹</i> <i>¹Business Economics Group, Wageningen University and Research, the Netherlands, ²School of Business, IPB University, Indonesia, ³Quantitative Veterinary Epidemiology, Wageningen University and Research, ⁴Royal GD, the Netherlands, ⁵Faculty of Veterinary Medicine, IPB University, Indonesia</i>
11:15	Economic comparison of intensive and extensive hormone-based fertility programs in dairy herds, <i>A. Wicaksono^{1,2}, F. Edwardes¹, W. Steeneveld³, B. H. P. van den Borne^{1,4}, P. Pinho⁵, F. Randi⁵, H. Hogeveen¹</i>

¹Business Economics Group, Department of Social Sciences, Wageningen University and Research, the Netherlands, ²Veterinary Public Health and Epidemiology Division, School of Veterinary Medicine and Biomedical Sciences, IPB University, Indonesia, ³Faculty of Veterinary Medicine, Department of Population Health Sciences, Section Farm Animal Health, Utrecht University, the Netherlands, ⁴Quantitative Veterinary Epidemiology Group, Department of Animal Sciences, Wageningen University and Research, the Netherlands, ⁵CEVA Santé Animale, France

11:30 **Economic efficiency and antimicrobial use reduction of implementing different SDCT in Canadian dairy herds**

Ahmed Ferchiou¹, Thomas Le Page², Simon Dufour², Fidèle Kabera², Didier Raboisson¹, Jean Philippe Roy²

¹École nationale vétérinaire de Toulouse, France ²Faculté de Médecine Vétérinaire, Université de Montréal, Canada

11:45 **Animal welfare and farm performance: A Welfare-efficiency analysis of Irish dairy farms**

Amer Ait-Sidhoum, Jarkko Niemi

Natural Resources Institute Finland (Luke), Finland

12:00 **Herd-level economic impact of suboptimal dairy cow replacement due to constrained heifer supply**

PS Kulkarni^{1,2}, H Hogeveen¹, W Steeneveld^{1,2}, MCM Mourits¹

¹Wageningen University & Research, the Netherlands, ²Utrecht University, the Netherlands

11:00- Parallel session 5B: Behaviour

12:15 Lecture hall B2

11:00 **Are farm manager's attitudes and personality associated with dairy calf mortality?**

Dagni-Alice Viidu¹, Eamonn Ferguson², Tanel Kaart¹, Kerli Mõtus¹

¹Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Estonia, ²School of Psychology, University of Nottingham, United Kingdom

11:15 **Biosurveillance system: exploring human behavior for effective animal disease surveillance**

Mo Salman, Shana Gillette, Alwyn Tan

Animal Health Population Institute, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, United States

11:30 **Veterinarians and farmers' role in cattle farms' biosecurity: who must set the example?**

V. Guétin-Poirier, L. Fabbri and J. Rivière.

USC EPIMAI, Anses, École Nationale Vétérinaire d'Alfort, France

11:45 **Stakeholders' perceptions, expectations and decision making regarding innovative approaches to control microbiomes**

Florence Bedoin¹, Amer Ait-Sidhoum², Elise Vanbergue¹, Anna Stygar², Terhi Latvala², Áine Macken-Walsh³, Sinéad Waters³, Paul Smith³, Jarkko K. Niemi²

¹Institut d'Elevage (Idele), France, ²Natural Resources Institute Finland (Luke), Finland, ³Teagasc, Ireland

12:00 **Doing disease at scale: The case of farm animal lameness**

Niamh Mahon¹, Lewis Holloway¹, Beth Clark², Amy Proctor²

¹University of Hull, United Kingdom, ²University of Newcastle, United Kingdom

12:15- Lunch

13:30

13:30- Session 6: Policy and industry perspectives to animal health

15:00 Lecture hall B2

- 13:30 **Invited talk: Political decision making in the context of animal diseases**
Taina Aaltonen, Deputy Director General at Ministry of Agriculture and Forestry, Finland, Chief Veterinary officer of Finland and delegate of Finland to the World Organisation for Animal Health
- 14:00 **Invited talk: Voluntary animal disease control programs, their success and motivating factors in Finland**
Ina Toppari, Executive manager at Animal Health ETT r.a., Finland
- 14:25 **Making sense of high-level investment in animal health systems** [flash presentation]
Mariana Marrana¹, William Gilbert², Adriana Nilsson³, Keith Hamilton¹, Jonathan Rushton²
¹World Organisation for Animal Health, France, ²Institute of Infection, Veterinary and Ecological Sciences, School of Health and Life Sciences, University of Liverpool, United Kingdom, ³Work, Organisation and Management Group, Management School, University of Liverpool, United Kingdom
- 14:30 **Towards output-based surveillance of transmissible cattle diseases: challenges and opportunities**
Tanja Knific¹, Luis Pedro Carmo², Maria Guelbenzu-Gonzalo³, John Berezowski⁴, Inge Santman-Berends⁵, Christine Fourichon⁶, George Gunn⁴, Jörn Gethmann⁷, Sam Strain⁸, Jaka Jakob Hodnik¹, Matjaž Ocepek¹, Madeleine Henry⁴, Gerdien van Schaik⁵, Céline Faverjon⁹, Aurélien Madouasse⁶, Eleftherios Meletis¹⁰, Beate Conrady¹¹, Lina Costa¹², Eglé Rapaliutė¹³, Aurore Carcel⁶, Jasmeet Kaler¹⁴
¹Veterinary Faculty, University of Ljubljana, Slovenia, ²Norwegian Veterinary Institute, Norway, ³Animal Health Ireland, Ireland, ⁴North Faculty Office, Scotland's Rural College, United Kingdom, ⁵GD Animal Health, the Netherlands, ⁶INRA- Institut National de la Recherche Agronomique & Oniris, BIOEPAR, France, ⁷Friedrich-Loeffler-Institute, Federal Research Institute for Animal Health, Institute of Epidemiology, Germany, ⁸Animal Health and Welfare Northern Ireland, United Kingdom, ⁹Ausvet Europe, France, ¹⁰Faculty of Public and One Health, University of Thessaly, Greece, ¹¹Department of Veterinary and Animal Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark, ¹²Polytechnic Institute of Portalegre, Portugal, ¹³Faculty of Veterinary Medicine, Lithuanian University of Health Sciences, Lithuania, ¹⁴University of Nottingham, United Kingdom
- 14:45 **Paying for veterinary care on a fixed-price basis: a win-win option in dairy farming in western France**
Florence Bonnet-Beaugrand, Julien Andrieu, Nathalie Bareille
Oniris & INRAE, BIOEPAR, France

15:00-
15:30 **Coffee break**

15:30- **Parallel session 7A: Costs of disease**

16:45 *Lecture hall B1*

15:30 **Multiple burden framework for dairy cattle diseases**

Wilma Steeneveld¹, Henk Hogeveen²

¹Utrecht University, the Netherlands, ²Wageningen University, the Netherlands

15:45 **Assessing the economic consequence of interventions for controlling salmon lice using a stochastic partial budgeting approach**

Cecilie Sviland Walde¹, Britt Bang Jensen^{1,2}, Marit Stormoen³, Frank Asche^{4,5}, Bård Misund⁶, Jostein Mulder Pettersen⁷

¹Norwegian Veterinary Institute, Norway, ³Norwegian University of Life Sciences, Norway, ⁴University of Florida, United States, ⁶University of Stavanger, Norway, ⁷Pharmaq As, Norway

16:00 **The economic burden of the porcine respiratory disease complex and related interventions - A systematic review**

Marloes Boeters¹, Beatriz Garcia-Morante^{2,3}, Gerdien van Schaik^{1,4}, Joaquim Segalés^{3,5,6}, Jonathan Rushton^{7,8}, Wilma Steeneveld¹

¹Department of Farm Animal Health, Faculty of Veterinary Medicine, Utrecht University, the Netherlands, ²IRTA. Programa de Sanitat Animal. Centre de Recerca en Sanitat Animal (CReSA), Campus de la Universitat Autònoma de Barcelona (UAB), Spain, ³OIE Collaborating Centre for the Research and Control of Emerging and Re-Emerging Swine Diseases in Europe (IRTA-CReSA), Spain, ⁴Royal GD, the Netherlands, ⁵Departament de Sanitat i Anatomia Animals, Facultat de Veterinària, Universitat Autònoma de Barcelona, Spain, ⁶Unitat Mixta d'Investigació IRTA-UAB en Sanitat Animal, Centre de Recerca en Sanitat Animal (CReSA), Campus de la Universitat Autònoma de Barcelona (UAB), Spain, ⁷Global Burden of Animal Diseases Program, Institute of Infection, Veterinary and Ecological Sciences, University of Liverpool, United Kingdom, ⁸Institute of Infection, Veterinary and Ecological Sciences, School of Health and Life Sciences, University of Liverpool, United Kingdom.

16:15 **The potentials in Norwegian Salmon Farming by improving vaccines**

Paul Steinar Valle, Tarique Mahmud
Spillfree Analytics AS, Norway

16:30 **The Use of Complementary and Alternative Approaches to Animal Health on UK Dairy Farms and their Influenced on Antibiotic Use: A Qualitative Study**

Kayleigh Crouch¹, Gwenllian Rees², Christie Cabral¹, Helen Cramer¹, Debbie Sharp¹, David Barrett¹

¹University of Bristol, United Kingdom, ²Aberystwyth University, United Kingdom

15:30- **Parallel session 7A: Poultry**

16:45 *Lecture hall B2*

15:30 **Estimating costs of notifiable poultry diseases in seven European countries**

Helena C. de Carvalho Ferreira¹, Giuditta Tilli², Arthi Amalraj³, Hilde Van Meirhaeghe⁴ [NetPoulSafe consortium]⁵, Nathalie Rousset⁶, Anne-Christine Lefort⁶, Jeroen Dewulf³, Alessandra Piccirillo², Erwin Wauters¹

¹ILVO, Social sciences unit, Flanders Research Institute for Agriculture, Fisheries and Food, Belgium, ²Department of Comparative Biomedicine and Food Science, University of Padua, Italy, ³Gent University, Department of epidemiology, Faculty of Veterinary medicine, Belgium, ⁴Vetworks BV, Belgium, ⁵The NetPoulSafe project, funded by the EU Research and Innovation Programme Horizon 2020 under Grant Agreement n. 101000728, ⁶ITAVI, Institut Technique de l'Aviculture, Pisciculture et Cuniculture, France

15:45 **Economic impact of chicken diseases and other causes in backyard farms in low-income and middle-income countries: systematic review and meta-analyses,**

Violeta Muñoz-Gómez¹, Alexandra P.M. Shaw², Philip Rasmussen¹, Paul R. Torgerson¹

¹Section of Epidemiology, Vetsuisse Faculty, University of Zurich, Switzerland, ²University of Edinburgh, United Kingdom

16:00 **Danish egg producers' knowledge, practices, attitudes and perceptions of laying hen mortality,**

Vibe Pedersen Lund, Ida Thøfner, Liza Rosenbaum Nielsen, Jens Peter Christensen
Department of Veterinary and Animal Sciences, University of Copenhagen, Denmark

16:15 **A principal-agent assessment of contract broiler farming and antibiotic use. A case study from West Bengal, India,**

Mathew Hennessey¹, Indranil Samanta², Guillaume Fournie^{1,3,4}, Matthew Quaipe⁵ Meenakshi Gautham⁶, Haidaruliman Paleja⁷, Papaiyan Kumaravel⁸, Ripan Biswas⁹, Pablo Alarcon¹

¹Veterinary Epidemiology, Economics and Public Health Group, Department of Pathobiology and Population Sciences, Royal Veterinary College, United Kingdom. ²Department of Veterinary Microbiology, West Bengal University of Animal and Fishery Sciences, India,

³Université de Lyon & INRAE, VetAgro Sup, UMR EPIA, France, ⁴Université Clermont Auvergne & INRAE, VetAgro Sup, UMR EPIA, France, ⁵Evidera, United Kingdom, ⁶Department of Global

Health and Development, Faculty of Public Health and Policy, London School of Hygiene and Tropical Medicine, United Kingdom, ⁷Department of Animal Biotechnology, Veterinary College, Anand Agricultural University, India, ⁸Department of Veterinary and Animal Husbandry Extension Education, Madras Veterinary College, India, ⁹Department of Veterinary Public Health and Epidemiology, West Bengal University of Animal and Fishery Sciences, India

16:30 **What lies beyond urbanisation? Uncovering linkages of poultry production and consumption in urban India**

*Lavinia Scudiero, Mehroosh Tak, Pablo Alarcon, Jackie Cardwell
Royal Veterinary College, United Kingdom*

16:45- ISESAH annual general meeting

17:30 *Lecture hall B1*

17:30- **Walking tour at the university farm**

18:30 *Departure from the lobby after the annual meeting*

19:30- Conference dinner

23:00 *Restaurant in the city center*

Thursday, June 15th, 2023

9:00-10:30 Session 8: Perspectives to behavioral changes in animal health management

Lecture hall B1

9:00 Invited talk: Using behaviour change frameworks in endemic disease management

Beth Clark, Lecturer in Food Marketing at School of Natural and Environmental Sciences, Newcastle University, United Kingdom

9:30 Anthropomorphism and its implication for stakeholders' attitudes to livestock farming in Switzerland

*Andrea Knörr, Angela Bearth, Xiao Zhou, Michael Siegrist
ETH Zurich, Institute for Environmental Decisions (IED), Consumer Behavior, Switzerland,*

9:45 The social license to operate and animal production systems

*Rhys Evans
Høgskulen for grøn utvikling, Norway*

10:00 Do consumer and farmer preferences on measures to enhance animal health and welfare coincide? Results from two surveys in 9 European countries

Minna Väre¹, Katja Lähtinen¹, Katriina Heinola¹, Jarmo Mikkola¹, Tricia Parrott², Claire Bonnefous³, Laura Van Vooren⁴, Saskia Kliphuis⁵, Anna Zuliani⁶, Raffaella Ponzio⁷, Laura Warin⁸, Sophie Herremans⁹, Lisa Baldinger¹⁰, Monica Coletta¹¹, Martina Re¹¹, Christine Roguet¹², Marina Spinu¹³, Ninfa Rangel Pedersen¹⁴, Petra Thobe¹⁰, Anne Collin³, Jarkko K. Niemi¹.

¹Natural Resources Institute Finland (Luke), Finland, ²Harper Adams University, United Kingdom, ³National Research Institute for Agriculture, Food and the Environment (INRAE), France, ⁴BioForum, Belgium, ⁵Utrecht University, the Netherlands, ⁶VSF, Italy, ⁷SlowFood, Italy, ⁸Institut Technique de l'Aviculture, France, ⁹Centre Wallon de recherches agronomiques, Belgium, ¹⁰Johan Heinrich von Thuenen Institute, Germany, ¹¹Associazione Italiana Agricoltora Biologica, Italy, ¹²Institut du Porc, France, ¹³Universitatea de Stiinte Agricole si Midecina Veterinara Cluj Napoca, Romania, ¹⁴Fermentation Experts, Denmark

10:15 Consumer perspectives on animal welfare and food purchasing decisions: an international comparison

Anne Pöder¹, Ants-Hannes Viira², Martin Kukk², Hardi Tamm¹, Pekka Kilpeläinen³, Tuija Kallio³, Elisa Tikkanen³, Per-Ola Ulvenblad⁴, Pia Ulvenblad⁴, Henrik Barth⁴, Natascha Schlereth⁵, Abate Kassa⁵.

¹Estonian Dairy Cluster, Estonia, ²Estonian University of Life Sciences, Estonia, ³University of Oulu, Finland, ⁴Halmstad University, Sweden, ⁵Technical University of Munich, Germany

10:30-11:00 Coffee break

11:00-12:30 Parallel session 9A: Antimicrobials

Lecture hall B1

11:00 Cost-effectiveness analysis of Farm-level Antimicrobial Stewardship Interventions: case of Danish livestock sector

*Yechale Getu Endalew, Jørgen Dejjgård Jensen, Dagim Belay
University of Copenhagen, Denmark*

11:15 Antibiotic supply chain map of the Argentinian beef industry: A mixed methods approach (qualitative and quantitative methods)

*David Oseguera Montiel¹, Sergio F. Sanchez Bruni², Maria Laura Galotta¹, Peers Davies¹
¹Department of Livestock & One Health, University of Liverpool, United Kingdom
²Laboratory of Pharmacology, Faculty of Veterinary Medicine, CIVETAN-CONICET*

11:30 Antimicrobial resistance and antimicrobial use in veterinary medicine viewed by companion-animal veterinarians

Sophie Molia¹, Julien Mattern², Nicolas Fortané³

- 11:45 **Change in dairy farming practice following a regulation restricting very high importance antimicrobials in human medicine in the province of Quebec, Canada**
 Nikky Millar^{1,2,3,4}, Simon Dufour^{1,2,4}, H  l  ne Lard  ^{1,2,4,7}, Jean-Philippe Roy^{4,5}, Catherine Belloc⁶, Maud De Lagarde¹, C  cile Aenishaenslin^{1,2,3}
¹Department of Pathology and Microbiology, Faculty of Veterinary Medicine, Universit   de Montr  al, Canada, ²Groupe de recherche en   pid  miologie des zoonoses et sant   publique (GREZOSP), Faculty of Veterinary Medicine, Universit   de Montr  al, Canada, ³Centre de recherche en sant   publique, Universit   de Montr  al et Centre int  gr   de sant   et de services sociaux du Qu  bec du Centre-Sud-de-l'  le-de-Montr  al, Canada, ⁴Fond de recherche Nature et technologies du Qu  bec (FRQNT) - Regroupement FRQNT Op+lait, Canada, ⁵Department of Clinical Sciences, Faculty of Veterinary Medicine, Universit   de Montr  al, Canada, ⁶Biologie,   pid  miologie et Analyses de risque en sant   animale (BIOEPAR), ONIRIS-INRAE, France, ⁷Ross University School of Veterinary Medicine, West Indies
- 12:00 **Beyond knowledge dissemination and awareness-raising: what are relevant interventions to help farmers reduce their antimicrobial use?**
 Fanny Baudoin, Erwin Wauters
 Social Sciences Unit, Flanders research institute for agriculture, fisheries and food (ILVO), Belgium
- 12:15 **Complying with antibiotic withdrawal periods on smallholding, peri-urban pig farms in Kenya**
 Claire Scott¹, Nicholas Bor², Irene Bueno¹, Dishon Muloi^{2,3}, Max Korir², Kristen K Reyher¹, Henry Buller⁴, Lian F Thomas^{2,5}
¹University of Bristol, ¹International Livestock Research Institute, ³University of Edinburgh, ⁴University of Exeter, ⁵University of Liverpool
- 11:00-12:30 Parallel session 9B: Infectious diseases**
 Lecture hall B2
- 11:00 **Economic losses due to foot-and-mouth disease in Ethiopian cattle**
 Philip Rasmussen¹, Alexandra P.M. Shaw², Paul R. Torgerson¹
¹Section of Epidemiology, Vetsuisse Faculty, University of Zurich, ²Department of Livestock and One Health, University of Liverpool, United Kingdom
- 11:15 **The effect of compliance to epidemiological and economic outcomes of FMD control in Thailand**
 Thanicha Chanchaidechachai^{1,2}, Egil A. J. Fischer⁴, Helmut Saatkamp¹, Mart C.M. de Jong³, Henk Hogeveen¹
¹Business Economics Group, Wageningen University, Wageningen, The Netherlands, ²Research Unit of Data Innovation for Livestock, Department of Veterinary Medicine, Faculty of Veterinary Science, Chulalongkorn University, Thailand
- 11:30 **The indirect costs of African swine fever outbreak: A comparative analysis between Scotland and Great Britain,**
 Irmelin S. Helgesen^{1,2}, Andrew P. Barnes¹, Tarek Soliman¹
¹Scotland's Rural College, United Kingdom, ²Norwegian University of Science and Technology, Norway
- 11:45 **Spatiotemporal drivers of the African swine fever epidemic in Lao PDR**
 Ka Yi Hui¹, Nina Matsumoto¹, Jarunee Siengsanant-Lamont², James R Young², Syseng Khounsy³, Bounloum Douangneun³, Watthana Thepagna³, Phouvong Phommachanh³, Stuart D Blacksell^{1,2,4}, Michael P Ward¹
¹University of Sydney, Sydney School of Veterinary Science, Australia, ²Mahidol-Oxford Tropical Medicine Research Unit (MORU), Faculty of Tropical Medicine, Mahidol University, Thailand, ³National Animal Health Laboratory, Department of Livestock and Fisheries, Ministry of Agriculture and Forestry, Lao Democratic People's Republic, ⁴Centre for Tropical

Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, United Kingdom

12:00 **Seasonal Cattle Transhumance in Central Myanmar: Farmers' practices and socio-economic factors related to bovine brucellosis.**

Su Su Hlaing¹, Hiroichi Kono²

¹Obihiro University of Agriculture and Veterinary Medicine, Graduate School of Animal and Veterinary Sciences and Agriculture, Japan, ²Obihiro University of Agriculture and Veterinary Medicine, Department of Agro-environmental Science, Japan

12:30 Awards and closing the conference

Lecture hall B1

Lunch