



Association d'Épidémiologie
& de Santé Animale - asbl

INTERNATIONAL SYMPOSIUM

Horizon scanning in veterinary epidemiology

17-19 April 2024

Château de Colonster, University of Liège
Allée des Érables 4000 Liège - Belgium



Welcome to the AESA 33th anniversary International Congress!

It is our pleasure to welcome you in Liege at the second international symposium in Animal Epidemiology of the Association of Epidemiology and Animal Health (in French, Association d'Epidémiologie et de Santé Animale, AESA). The AESA aims to enhance the interest and education and to stimulate research in the field of veterinary epidemiology and animal health, mainly by organizing workshops, conferences, and symposia and by providing scientific support in those matters.

Despite increased interest, research and some investment in veterinary epidemiology and animal health, the scale of the task for the future is considerable for epidemiologists and many challenges remain or new challenges will arise. This reason together with the 33th anniversary of our association are explaining the title of our international congress: «Horizon scanning in veterinary epidemiology». With a look at the present, in order to anticipate the orientation of the future is the main idea of this topic. This big challenge needs sharing of information, exchange, brainstorming, interdisciplinary approach (e.g. social and economic sciences) and connectivity.

Considering these epidemiological challenges, do we need to adapt the epidemiological approach or not? Invited speakers with international appeal will try to find answers for the future in eleven different sessions concerning the Academia and Government work hand-in-hand to support wildlife conservation, protect public health and prevent the next pandemic, the one health veterinary drug resistance, the bee management practices including biosecurity and sustainability, the artificial intelligence assistance, video games and

other digital tools in epidemiology, the participatory epidemiology, the emerging and vector-borne diseases, the one health integrated surveillance, the molecular biology and bio-informatics in epidemiology and finally the biological weapons and epidemiology.

In addition of this variety of interesting subjects, we will give young scientists the opportunity to present their work during different parallel sessions during the two days symposium (oral presentations and posters).

At the end of the symposium, five prizes will be attributed to the best presentation by AVIA-GIS, ARSIA, AMCRA, UREAR-ULiege and AESA.

We thank the sponsors for their financial support: Fund for Scientific Research (F.R.S.–FNRS), the Province of Liège, Innovative Diagnostics, Emdoka and ARSIA.

We thank the Heliport brewery (Brasserie Hélicoptère) for its hospitality in the splendid setting of Colonster Castle of the University of Liege.

A special thanks to the board members of the Scientific Committee and the AESA Organization Committee.

We appreciated all the work that had been fulfilled during the organization of this meeting as well during the evaluation of the submitted proceedings, abstracts and posters. We can be proud of the obtained results.

On behalf of the boards of the AESA we wish you a pleasant and stimulating and inspiring meeting.

Best regards,
Prof. Dr. Claude Saegerman
AESA President

Wednesday, April 17

13:00	17:00	Workshop	One Health Quantitative Risk Assessment	<i>Prof. Claude Saegerman (ULiège, BE) & Prof. Maria Eleni Filippitzi (Aristotle University of Thessaloniki, GR)</i>	Salle Carpay (1 st floor, next to the elevator)
13:00	17:00	Workshop	Cartography and spatio-temporal tools	<i>Prof. Timothée Vergne & Dr. Brandon Hayes (Université de Toulouse, INRAE, ENVT, Toulouse)</i>	Salle bleue (2 nd floor)
18:00	23:00	Ice breaking dinner			Salle Creative

Thursday, April 18

08:00	09:00	Registration		Hall
09:00	09:20	Opening ceremony and Introduction to the international symposium		Prof. Claude Saegerman - President of AESA Salle de Lecture (2 nd floor)
SESSION 1		Wildlife		Chairwoman: Dr V. De Waele
09:20	10:00	Keynote	How can Academia and Government work hand-in-hand to support wildlife conservation, protect public health and prevent the next pandemic? (videoconference)	Dr. Anne-Lise Chaber - School of Animal and Veterinary Sciences - Faculty of Medical Sciences - University of Adelaide, Australia
10:00	10:15	Selected oral presentations	Usutu virus circulation in wild birds, Wallonia 2023	Laura Duran Ilán - ULiège
10:15	10:30		In vitro and in vivo characterization of four bacteriophages targeting Aeromonas salmonicida	Salomé Desmecht - ULiège
10:30	10:45		An R-Shiny application to assess the risks of introduction of infectious animal diseases in Belgium	Xavier Simons - Sciensano
10:45	11:15	Coffee break		Péristyle (1 st floor)
SESSION 2A		Veterinary Drug Resistance		Chairwoman: Dr F. Dal Pozzo
11:15	11:45	Keynote	Veterinary Drug Resistance in a One Health Perspective	Dr Laeritia Lempereur - FAO - One Health & Disease Control Group (NSAH-CJW)
11:45	12:00	Selected oral presentations	A first One Health integrated analysis of antibiotic resistance surveillance data in France	Lucie Collineau ANSES
12:00	12:15		The consumption of veterinary antibacterial products in Belgium in 2022 and its evolution since 2011	Maries Lissens AMCRA
12:15	12:30		Challenges on data collection on antibiotic use in companion animals and horses	Bénédict Callens AMCRA
SESSION 2B		Bee Health		Chairwoman: J.S. Ocaña Cabrera
11:15	11:45	Keynote	One Health, Bee Management practices including biosecurity & sustainable beekeeping	Dr. Giovanni Formato- ITZER - IT; FAO and WAOH Reference Centre for Apiculture, Health and Biosecurity
11:45	12:00	Selected oral presentations	Sweet stingless beekeeping from the middle of the world	Joseline Sofía Ocaña Cabrera - ULiège
12:00	12:15		BeeToxWax: real time tool for calculation of the toxicity risk of waxes that have been subjected to a pesticide analysis	Claude Saegerman - ULiège
12:15	12:30			
12:30	14:00	Lunch and poster session		Péristyle (1 st floor)
SESSION 3A		Modelisation in epidemiology		Chairman: Prof. C. Saegerman
14:00	14:30	Keynote	Modelisation in epidemiology: for which purpose?	Prof. Timothée Vergne - Université de Toulouse, INRAE, ENVT, Toulouse - FR
14:30	14:45	Selected oral presentations	Modeling High Pathogenicity Avian Influenza: Integration of Sociological and Environmental Factors	Maryem Ben Salem ANSES
14:45	15:00		Predicting mosquito biodiversity and abundance using land use and climate changes (videoconference)	Antoinette Ludwig Public Health Agency Canada
15:00	15:15		A highly efficient ELISA to specifically detect CCHFV antibodies in animals and humans	Philippe Bevilacqua Innovative Diagnostics (Idvet)
SESSION 3B		Socio-eco epidemiology		Chairman: Dr L. Delooz
14:00	14:30	Keynote	Socio-eco epidemiology	Prof. Niemi Jarkko (Natural Resources Institute Finland - FI)
14:30	14:45	Selected oral presentations	Stability and lytic activity assessment in milk of bacteriophages targeting Escherichia coli causing bovine mastitis	Jacob Diderich - ULiège
14:45	15:00		Antimicrobial resistance characterization of MRSA and MRSP isolated in dogs and cats in Belgium	Suzanne Dewulf - UGent
15:00	15:15		Comparaison of herd mortality rates in Wallonia	Julien Evrard - ARSIA
15:15	15:45	Coffee break		Péristyle (1 st floor)
SESSION 4A		Digital tools in Epidemiology		Chairman: Dr L. Martinelle
15:45	16:15	Keynote	Artificial intelligence assistance, video games and other digital tools in Epidemiology	Ir. Sébastien Picault - INRAe - FR
16:15	16:30	Selected oral presentations	New real time biosecurity tool in your hands	Claude Saegerman - ULiège
16:30	16:45		Horizon scanning for plant pests at EFSA : tools and methods	Magali Larenaudie - EFSA
16:45	17:00		Optimizing surveillance strategies of highly pathogenic avian influenza in live bird markets across southeast Asia	Dr. Brandon Hayes (IHAP, ENVT, Toulouse, INRAE)
SESSION 4B		Participatory Epidemiology		Chairman: Dr J.-Y. Houtain
15:45	16:15	Keynote	The added-value of participatory epidemiology	Dr. Bryony Jones (Senior Epidemiologist at Animal and Plant Health Agency - UK)
16:15	16:30	Selected oral presentations	Surveying tick control practices on dairy farms in subtropical areas of continental Ecuador	Valeria Paucar - ULiège
16:30	16:45		Assessing acaricide treatment expenses on dairy farms in subtropical areas of Ecuador	Valeria Paucar - ULiège
16:45	17:00		First Expert Elicitation of Knowledge on Drivers of Emergence of Bovine Besnoitiosis in Europe	Claude Saegerman - ULiège
18:00	19:00	Visit of the « Plants World Observatory » of University of Liège		
19:00	23:00	AESAs 33 rd anniversary gala dinner		Péristyle (1 st floor)

Friday, April 19

SESSION 5		Emerging and Vector-borne diseases		Chairman: Prof. D. Thiry	Salle de Lecture (2 nd floor)
09:00	09:40	Keynote	Emerging and Vector-borne viral diseases	<i>Dr Gaëlle Gonzalez - Deputy Director of the EU-RL for equine diseases</i>	
09:40	09:55	Selected oral presentations	Forest dynamics and acari-borne diseases: lessons from a scoping review (videoconference)	<i>Nolwenn Blache - VetAgro Sup</i>	
09:55	10:10		Genetic diversity of Ehrlichia ruminantium strains in West Africa, Amblyomma variegatum, tick populations	<i>Tidjani Ayole Djiman - ULiège</i>	
10:10	10:25		Bovine besnoitiosis: A serious threat to animal health in Belgium	<i>Laurent Delooz - ARSIA</i>	
10:25	10:55	Coffee break			Péristyle (1 st floor)
SESSION 6A		One Health		Chairman: Dr. A. Mauroy	Salle bleue (2 nd floor)
10:55	11:25	Keynote	One health integrated surveillance	<i>Dr Pascal Hendrikx - Conseil général de l'Alimentation, de l'Agriculture et des Espaces Ruraux - FR</i>	
11:25	11:40	Selected oral presentations	RAG-CA and RAG-V-EZ - two initiatives from the FASFC to sustain authorities facing emerging zoonoses	<i>Axel Mauroy - FASFC</i>	
11:40	11:55		Cross-sectional serosurvey of HEV in Belgian pig farms and identification of risk factors	<i>Constance Wielick - ULiège</i>	
11:55	12:10				
SESSION 6B		Molecular biology and bio-informatics		Chairman: Prof. C. Saegerman	Salle de Lecture (2 nd floor)
10:55	11:25	Keynote	Added value of molecular biology and bio-informatics in epidemiology	<i>Dr. Steven van Borm - Sciensano - BE</i>	
11:25	11:40	Selected oral presentations	Uncovering New Pathogens in Bovine Diseases through Comparative 16S rRNA sequencing	<i>Fabien Grégoire - ARSIA</i>	
11:40	11:55		A new pen-side test to confirm RVF clinical suspicions in the field	<i>Philippe Bevilacqua - Innovative Diagnostics (IDvet)</i>	
11:55	12:10		Evaluation of the performances of a M. avium subsp. paratuberculosis Ab ELISA in young cattle	<i>Jean-Yves Houtain - ARSIA</i>	
12:10	13:30	Lunch and poster session			Péristyle (1 st floor)
SESSION 7		Biological weapons		Chairwoman: Dr M.-F. Humblet	Salle de Lecture (2 nd floor)
13:30	14:10	Keynote	Biological weapons and epidemiology	<i>Prof. Maria J. Espona - Catholic University of Argentina</i>	
14:10	14:25	Selected oral presentations	Veterinary students' perception of zoonotic diseases and their prevention through an online survey in three Belgian universities	<i>Marie-France Humblet - ULiège</i>	
14:25	14:40		Synergistic approaches to gastrointestinal nematode control in sheep and goat flocks	<i>François Claine - ARSIA</i>	
14:40	14:55				
15:00	15:30	Oral presentations and posters awards (Avia-GIS, ARSIA, UREAR-ULiège, AESA, AMCRA)		<i>Guy Hendrickx - AVIA-GIS</i>	Salle de Lecture (2 nd floor)
15:30	16:00	Closing Ceremony		<i>Prof. Claude Saegerman - President of AESA</i>	Salle de Lecture (2 nd floor)

