

## WORKSHOPS

### Veterinary clinical epidemiology: the basics

Session organisers: **Mirjam Nielen & Else den Boer**

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### Inferential modelling with wide data: use of regularisation, variable stability and triangulation to enhance interpretation of results

Session organisers: **Martin Green, Robert Hyde & Eliana Lima**

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### Spatial visualisation of health events: A hands-on practical with R

Session organisers: **Brandon Hayes & Timothée Vergne**

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### Introduction to Game Theory and its applications to animal health

Session organisers: **Pablo Alarcon, Alexis Delabouglise & Guillaume Fournie**

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### Disease outbreak investigations: practical epidemiological considerations

Session organisers: **Fraser Menzies & Maria O'Hagan**

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### Substantiating freedom from infection: available statistical methods to prove freedom from infection in an output-based framework

Session organisers: **Eleftherios Meletis & Aurélien Madouasse**

Email: [emeletis@outlook.com](mailto:emeletis@outlook.com) and [aurelien.madouasse@oniris-nantes.fr](mailto:aurelien.madouasse@oniris-nantes.fr)

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SOCIETY FOR VETERINARY EPIDEMIOLOGY AND PREVENTIVE MEDICINE  
ANNUAL CONFERENCE  
WEDNESDAY 23 MARCH – FRIDAY 25 MARCH 2022  
Belfast, Northern Ireland

### Wednesday 23 March 2022

09.00 – 12.00

#### Workshops

**Workshop 1:** Veterinary clinical epidemiology  
**Workshop 2:** Inferential modelling with wide data  
**Workshop 3:** Spatial visualisation of health events  
**Workshop 4:** Introduction to Game Theory  
**Workshop 5:** Disease outbreak investigations  
**Workshop 6:** Substantiating freedom from infection

12.00 – 13.00

LUNCH

**Session 1:**  
**Chair: Gerdien van Schaik**

#### Opening the Conference

**Robert Huey**, Chief Veterinary Officer for Northern Ireland


The role of vets on the national stage

13.00– 14.00 **Keynote**

**Session 2:**  
**Chair: David Brodbelt**

#### Animal movements

Exploring the association between pig transports, veterinarian visits and farm production type to inform risk-based surveillance strategies

14.00 – 14.25 **Galli** 

14.25 – 14.50 **Alves de Sousa**

Tracking for representativeness: how many days are needed to record a representative home range of free-roaming domestic dogs

14.50– 15.00

*5 x 2-minute poster pitches*


15.00 – 15.45

**COFFEE/TEA & POSTER VIEWING**

**Session 3:**  
**Chair: Philip Robinson**

#### Qualitative methods in animal health

The influence of peers networks on antibiotic prescribing practices: evidences from a qualitative study with French poultry veterinarians

15.45 – 16.10 **Duran** 

16.10 – 16.35 **Smith, A.** 

A qualitative approach to investigate how place and risk influences sheep farmers' approaches to the management of sheep scab

16.35 – 17.00

**Elkholly** 

Antimicrobial usage in farm animal practices in the UK: a mixed methods approach

17.00 – 17.10

*5 x 2-minute poster pitches*

17.15-18.00

**POSTER VIEWING**

18.15-19.00

**Drinks reception (Belfast City Hall)**

19.00



**Dinner (Ten Square Hotel)**

Thursday 24 March 2022

**Session 4:**

**Chair: Luis Carmo**

**Dairy cow health**


- 08.30 – 08.55 **Veldhuis** Bayesian diagnostic test evaluation and true prevalence estimation of *Mycoplasma bovis* in dairy cattle
- 08.55 – 09.20 **Wicaksono**  The herd-level association of hormone use for reproductive diseases and heat induction with reproductive performance in Dutch dairy farms
- 09.20 – 09.45 **Bisschop**  The association between longevity and animal health in Dutch dairy herds
- 09.45 – 10.00 *5 x 2-minute poster pitches*

10.00 – 10.30 **COFFEE/TEA & POSTER VIEWING**

**Session 5:**

**Chair: Timothée Vergne**

**Risk modelling**

- 10.30 – 10.55 **Murray** Modelling parasite-driven impacts of aquaculture on wild fish: the case of the salmon louse (*Lepeophtheirus salmonis*)
- 10.55 – 11.20 **Begovoeva**  Risk factors and hot-spot areas of foot-and-mouth disease in small ruminants in northern Nigeria
- 11.20 – 11.30 *5 x 2-minute poster pitches*


11.35 – 13.00 **ANNUAL GENERAL MEETING**

13.00 – 14.00 **LUNCH**

**Session 6:**

**Chair: Carla Gomes**

**Porcine disease control**

- 14.00 – 14.25 **Picault** Lessons learnt from the first modelling challenge in animal health: improving preparedness to control African swine fever at the interface between livestock and wildlife
- 14.25 – 14.50 **Hayes**  Elucidating African Swine Fever transmission patterns between domestic pigs and wild boar in Romania
- 14.50 – 15.15 **Merca** Application of syndromic surveillance to routinely collected swine production data for farm health management and early disease detection
- 15.15 – 15.25 *5 x 2-minute poster pitches*

15.25 – 16.15 **COFFEE/TEA & POSTER VIEWING**

**Session 7:**

**Chair: Fernanda Dórea**

**Avian and swine influenza transmission**

- 16.15 – 16.40 **Guinat** Disentangling the role of poultry farms and wild birds in the spread of highly pathogenic avian influenza virus H5N8 in Europe
- 16.40 – 17.05 **Sicard** Coupling spatial and temporal structure in batch rearing modelling for understanding the spread of the swine influenza A virus
- 17.05 – 17.30 **Vergne** Interplay between duck farm density and the resilience of the poultry sector to highly pathogenic avian influenza H5N8 in France

19.00 - 01.00

**Drinks Reception & conference dinner (Clayton Hotel)**

Friday 25 March 2022

**Session 8:**

**Chair: Egil Fischer**

**Surveillance and control**

- 09.00 – 09.25 **Sibanda** Understanding time series of RFID sensor data for predicting mortality in laying hens
- 09.25 – 09.50 **Smith, G.** Simulating the effects of badger control in Northern Ireland on bovine TB
- 09.50 – 10.15 **Thomann** Smart Animal Health - Health and welfare indicators for livestock

10.15 – 11.00

**COFFEE/TEA & POSTER VIEWING**

**Session 9:**

**Chair: Marie McIntyre**

**Emerging methods for veterinary epidemiology**

- 11.00 – 11.25 **Messam** Confidence interval interpretation: Introducing confidence interval functions
- 11.25 – 11.50 **Humphry** The benefits of Quantitative Estimation of Population Antimicrobial Resistance (QEPA) in One Health

**Session 10:**

**The Gareth Davies Lecture**

**Chair: Gerdien van Schaik**

**Prof. Julie Fitzpatrick:** Chief Scientific Advisor for Scotland & Director of the Moredun Institute, Edinburgh

11.50 – 12:40 **Keynote**

Science Based Policy - *not just* about Animal Disease!

12.40 – 13.00

Closing of the Conference

13.00 – 14.00

**TAKE AWAY LUNCH**



SRUC presenter is in the contest for the award for best presentation by an early career scientist. The award is sponsored by Scotland's Rural College.

For further information, please contact:  
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