

WORKSHOPS

Directed Acyclic Graphs (DAGs) applied to veterinary epidemiology

Session organisers: **Locksley Messam and Hsin-Yi Weng**
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Connecting people with data: Interactive, web-based data visualisation with RStudio Shiny

Session organisers: **Uli Muellner and Petra Muellner**
E-mail: uli@epi-interactive.com

The future of veterinary epidemiology

Session organiser: **Lisa Boden and Marnie Brennan**
E-mail: lisa.boden@glasgow.ac.uk

Intelligent use of digital data for surveillance: The case for ontologies

Session organiser: **Fernanda Dórea and Crawford Revie**
E-mail: fernanda.dorea@sva.se

Big Data epidemiology: Turning a trend into useful preventive medicine

Session organiser: **Maya Wardeh and Marie McIntyre**
E-mail: k.m.mcintyre@liv.ac.uk

Introduction to conjoint analysis

Session organisers: **Wilma Steeneveld**
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Conference organised by
Arvo Viltrop
on behalf of SVEPM



With the support of Estonian Veterinary Association



SOCIETY FOR VETERINARY EPIDEMIOLOGY AND PREVENTIVE MEDICINE
2018 ANNUAL CONFERENCE
WEDNESDAY 21ST MARCH – FRIDAY 23RD MARCH 2018
Tallinn, Estonia

Wednesday 21 March 2018

09.00 – 12.00

Workshops

- Workshop 1: Directed Acyclic Graphs (DAGs)**
- Workshop 2: Interactive data visualisation**
- Workshop 3: The future of veterinary epidemiology**
- Workshop 4: Digital data and surveillance**
- Workshop 5: Big Data epidemiology**
- Workshop 6: Introduction to conjoint analysis**

12.15 – 13.00

LUNCH

Session 1:
Chair: Liza Rosenbaum Nielsen

Opening the Conference

13.00– 14.00

Professor Päivi Rajala-Schultz, University of Helsinki, Finland
Veterinary epidemiology at the intersection of livestock disease, production and animal welfare

Session 2:
Chair: Marnie Brennan

Multifactorial analyses

14.00 – 14.25

Comin

Bayesian Networks structure discovery: a tool to clarify associations between housing, management and welfare of laying hens

14.25 – 14.50

Kruse 

Analysis of joint effects between biosecurity, production, vaccine and antimicrobial use in pig herds

14.50– 15.00

5 x 2 minutes poster pitches

15.00 – 15.45

COFFEE/TEA & POSTER VIEWING

Session 3:
Chair: Philip Robinson

Chronic diseases

15.45 – 16.10

Clifton 

Furthering our understanding of the persistence of *Fusobacterium necrophorum* in sheep: a longitudinal field-based study

16.10 – 16.35

Patterson 

Association between dam status and offspring *Mycobacterium avium* subspecies *paratuberculosis* infection in a long-term longitudinal study

16.35 – 17.00

Milne 

Herd characteristics, wildlife risk and bacterial strain genotypes in persistent breakdowns of bovine tuberculosis in North Irish cattle herds

17.00 – 17.10

5 x 2 minutes poster pitches

18.30

Buses depart from Viru Hotel to welcome reception

19.00

WELCOME RECEPTION at Kolu Inn, Estonian Open Air Museum

Thursday 22 March 2018

Session 4:

Chair: K. Marie McIntyre

08.30 – 08.55 **Garza** 

Improving disease control

Nudging to improve compliance with animal health policies: an inventory of approaches considered by animal disease managers

08.55 – 09.20 **Gilson** 

Maternal vaccination as a *Salmonella* Typhimurium reduction strategy on pig farms with a salmonellosis problem

09.20 – 09.45 **Vazquez**

Smart data for veterinary epidemiology: comparing various machine learning algorithms for the detection of lameness in sheep

09.45 – 09.55

5 x 2 minute poster pitches

09.55 – 10.30

COFFEE/TEA & POSTER VIEWING

Session 5:

Chair: Francisco Calvo-Artavia

10.30 – 10.55 **Guinat** 

Predictive spatial modelling of Highly Pathogenic Avian Influenza subtype H5N8 in France, 2016-2017

10.55 – 11.20 **Vergne** 

Nomadic movements and infectious disease transmission: tackling avian influenza viruses along the free-grazing duck movement network in Vietnam

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: Robert Christley

14.00 – 14.25 **de Knegt**

Combining whole genome sequencing and analytic contact tracing for improved detection of *Salmonella* Dublin transmission routes

14.25 – 14.50 **Brookes**

'Thinking like a virus' – the influence of social structure and behavioural change on rabies spread in dog populations

14.50 – 15.15 **Brown**

Analysing cattle movements in Northern Ireland using social network analysis

15.15 – 15.25

5 x 2 minute poster pitches

15.25 – 16.15

COFFEE/TEA & POSTER VIEWING

Session 7:

Chair: Gerdien van Schaik

16.15 – 16.40 **Birch**

Evaluation of scanning surveillance for antimicrobial resistance

16.40 – 17.05 **Bordier**

How can a One Health concept be applied when it comes to surveillance: a systematic literature review

17.05 – 17.30 **Faverjon**

Multivariable syndromic surveillance syndrome selection based on aberration detection performances

19.00

Buses depart from Viru Hotel to conference dinner

19.30 -

DRINKS RECEPTION AND ANNUAL CONFERENCE DINNER at Tallinn Song Festival Grounds

Friday 23 March 2018

Session 8:

Chair: Ann Lindberg

09.00 – 09.25 **Toftaker**

Viral diseases

Towards risk-based control of BRSV in Norway by estimates of herd-level probability of freedom

09.25 – 09.50 **Veldhuis**

Risk factor analysis on introduction of BVDV in previously BVDV-free farms in the Netherlands

09.50 – 10.15 **Nurmoja**

African swine fever in domestic pigs in Estonia 2015-2017: epidemiological analysis of outbreaks

10.15 – 11.00

COFFEE/TEA & POSTER VIEWING

Session 9:

Chair: David Brodbelt

11.00 – 11.25 **Joosten**

Antimicrobial use

Quantitative and qualitative assessment of antimicrobial treatment incidence in a cross-sectional study of European broiler farms

11.25 – 11.50 **Sarrazin**

Antimicrobial treatment data from farrow-to-finish pig farms showing opportunities for improving responsible antimicrobial use in Europe

Session 10:

Chair: Liza Rosenbaum Nielsen

11:50 – 12:45

The Gareth Davies Lecture

Dr. Klaus Depner, Federal Research Institute for Animal Health, FLI, Germany

African Swine Fever: Lessons learned about the epidemiology, politics and practical implementation of control measures

12.45 – 13.00

Closing of the Conference

13.00 – 14.00

BUFFET / TAKE AWAY LUNCH



SRUC presenter is in the contest for the Scotland's Rural College award for best presentation by an early career scientists

For further information, please contact:
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Tallinn, Estonia
21-23 MARCH 2018