



## **EuFMD OPEN SESSION PROVISIONAL AGENDA**

Digitalization and innovation applied to the prevention and control of foot-and-mouth and similar transboundary animal diseases (FAST)

What cultural shifts, innovative solutions, and new technologies are changing the way in which we understand and control FAST diseases?

Hybrid event. Marseille (France) + online participation. 26-28 October 2022

### **Wednesday 26 October**

#### **FAST updates**

09:00	Opening		
09:10	D. King	<i>The Pirbright Institute, UK</i>	<b>Keynote</b> FMD events 2020-2022

## Session 1 – Emergency preparedness and response

**Aim:** To explore how digital transformation is supporting emergency preparedness and response and describe how new technologies can assist more efficient information exchange and timely decision-making in a response to a FMD and similar TADs incident.

S.Mortensen, *EuFMD Standing Technical Committee*

T. Alexandrov, K. Gibson - *EuFMD*

09:30	A. Boklund	<i>University of Copenhagen, Denmark</i>	<b>Keynote</b> New technologies to assist timely decision-making in a response and the use of modelling to support contingency planning
09:50	C. Dumbeck	<i>Alberta Health Services - Emergency/Disaster Management, Canada</i>	<b>Keynote</b> Virtual emergency operation centres in emergency management - Experiences during the COVID-19 pandemic
10:10	S. Hook Y. Himura	<i>Queensland Government Department of Agriculture and Fisheries, Biosecurity Queensland  Animal Health Australia</i>	Digitising preparedness and response: case studies from Australia's biosecurity sector
10:20	Panel discussion		
10:40	Coffee / Tea break - Poster session / Desks		
11:10	T. Marschik	<i>University of Veterinary Medicine, Vienna, Austria</i>	Emergency vaccination as an additional measure to control a potential outbreak of FMD in Austria. Would it be useful?

11:20	B. Conrady	<i>University of Copenhagen, Denmark</i>	Simulation of FMD spread and mitigation measures in the Danish livestock population
11:30	G. Garner	<i>Commonwealth Scientific and Industrial Research Organisation (CSIRO), EuFMD</i>	Reducing producer losses in a FMD outbreak through implementing trading zones
11:40	G. Ciaravino	<i>Universitat Autònoma de Barcelona, Spain</i>	OUTCOST-RUM, a tool to support countries in the evaluation of the economic impact of TADs affecting ruminants
11:50	E. Hill	<i>University of Warwick, UK</i>	Modelling livestock infectious disease control policy under differing perspectives on vaccination behaviour
12:00	Panel discussion		
12:30	Poster session / Desks		
13:00	Lunch break		

## Session 2 – Digital learning for veterinarians

**Aim:** To discuss how equipping veterinarians with digital skills, enhancing the learning via digital and remote peers-to-peers modalities and increasing the access to digital learning tools represent an opportunity to develop capacity in the animal health sector for FAST disease control.

K. Staerk, *EuFMD Standing Technical Committee*

M. Nardi, C. Rendina - *EuFMD*

14:30	Opening		
14:40	C. Thuranira-McKeever	Royal Veterinary College, UK	<b>Keynote</b> Exploring the frontiers of digital possibilities - innovating for veterinary education and FAST disease control
15:00	K. Bardosh	University of Washington, USA	<b>Keynote</b> Trust and social learning in the veterinary sector: Perspectives from the social sciences
15:20	Panel discussion		
15:50	Coffee / Tea break - Poster session / Desks		
16:10	D. Iatridou	Federation of Veterinarians of Europe (FVE)	Digital training as enabler for digital transformation of veterinary practice
16:20	S. Shamsudeen	EuFMD	Animal Health Service needs assessment study in Nigeria
16:30	L. Seabrook, M. Nardi	EuFMD	Training management system to assist development of skills
16:40	M. Kethro	Department of Agriculture, Fisheries and Forestry (DAFF), Australia	The application of virtual reality to FMD education
16:50	B. Alessandrini	World Organization for Animal Health (WOAH)	The WOAH innovation to the competency-based eLearning

17:00	C. Petracchi	FAO	FAO elearning academy: Innovative learning methodologies and digital inclusion for sustainable animal health
17:10-17:40	Panel discussion		

## Thursday 27 October

### FAST updates

09:00	Opening		
09:10	V. Chevalier	<i>French Agricultural Research Centre for International Development (CIRAD), France</i>	<b>Keynote</b> Peste des Petits Ruminants and Rift Valley Fever events 2020-2022

### Session 3 – Virology and diagnostics

**Aim:** To consider how modern technologies and digital transformation can support and improve the diagnostic capacity for FAST diseases and ensure availability of diagnostics, personnel, and capacities where they are most needed. Furthermore, to discuss how understanding the host defense can provide insights for designing effective vaccines or drugs to prevent and control the spread of FMD and similar TADs.

S. Zientara, *EuFMD Standing Technical Committee*

K. Van Maanen, K. Krstevski - *EuFMD*

09:30	D. King	<i>The Pirbright institute, UK</i>	<b>Keynote</b> Innovation in molecular diagnosis, next generation sequencing and molecular epidemiology for FMD and FAST disease
09:50	H. Zheng	<i>Lanzhou, China</i>	<b>Keynote (online)</b> Virus-host interactions in FMD virus infections
10:10	Panel discussion		
10:40	Coffee / Tea break - Poster session / Desks		
11:10	S. Delannoy	<i>French Agency for Food, Environmental and Occupational Health &amp; Safety (ANSES), France</i>	IDENTYPATH: The genomic platform of ANSES for molecular detection and typing of pathogens
11:20	A. Shaw	<i>The Pirbright Institute, UK</i>	Complete genome sequencing of FMDV using Nanopore sequencing
11:30	M. Sarry	<i>French Agency for Food, Environmental and Occupational Health &amp; Safety (ANSES), France</i>	Interplay between FMDV 3D polymerase and the type I interferon response: A contribution to viral persistence?
11:40	H. Li	<i>Lanzhou Veterinary Research Institute, Lanzhou, China</i>	Epitope mapping of FMDV 146S specific single-domain antibodies by cross-linking mass spectrometry
11:50	E.A. Foglia	<i>Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER), Italy</i>	Preliminary validation of multiplex Eurasia lateral flow device for on-field identification and serotyping of FMDV serotype O, A and ASIA1
12:00	M. Eschbaumer	<i>Friedrich-Loeffler-Institut, Germany</i>	Full-length genomic RNA of FMDV is infectious for cattle

12:10	Panel discussion
12:30	Poster session / Desks
13:00	Lunch break

## Session 4 – Vaccinology

**Aim:** To explore innovative technological platforms for FAST vaccines, to identify options for their development and commercialization and to better understand their advantages and limitations compared to conventional vaccines; to identify innovative developments and digitalization applied to cold chain logistics and vaccine monitoring; to examine a real-life example of innovative vaccine projects to capture best practice principles that can be translated to other regional projects.

J. Wood, *EuFMD Standing Technical Committee*

D. Mackay, M. Ilott – *EuFMD*

14:30	<i>Opening</i>		
14:40	B. Charleston	<i>The Pirbright Institute, UK</i>	<b>Keynote</b> The application of new vaccine technologies to control high consequence animal diseases
14:55	E. van den Born	<i>MSD Animal Health</i>	<b>Keynote</b> New vaccine technology: Hopes and fears
15:10	P. Hudelet	<i>Boehringer Ingelheim Animal Health, Germany</i>	<b>Keynote</b> The need for an innovative framework for access and benefit sharing of FAST pathogens

15:25	Panel discussion		
15:55	Coffee / Tea break - Poster session / Desks		
16:25	A. Dekker	<i>Wageningen University &amp; Research, the Netherlands</i>	Replacement of FMD vaccine potency tests: What are the options?
16:35	C. Sigoillot-Claude	<i>Boehringer Ingelheim Animal Health, Germany</i>	New insights in the humoral immune response following FMDV vaccination in pigs
16:45	C. Richaud	<i>MSD Animal Health</i>	Eradication takes more than vaccines
16:55	C. Lewis	<i>U.S. Department of Agriculture, USA</i>	Challenges in having vaccines available to control transboundary diseases of livestock
17:05	D. Mackay M. Ilott	<i>EuFMD</i>	Prequalification scheme for vaccines against FAST diseases
17:15	J. Hammond	<i>Global Alliance for Livestock Veterinary Medicines (GALVmed), UK</i>	AGRESULTS project as an example of innovative vaccination strategy
17:25-17:55	Panel discussion		



## Friday 28 October

### FAST updates

09:00	Opening		
09:10	N. De Regge	<i>Sciensano, Belgium</i>	<b>Keynote</b> Lumpy Skin Disease, Sheep Pox and Goat Pox events 2020-2022

### Session 5 – Risk assessment and modelling

**Aim: To showcase advances and innovations in risk analysis and modelling as suitable tools for using data and transforming it into meaningful information to assist decision-makers to manage the risk of FMD and similar TADs.**

G. Cáceres Garrido, *EuFMD Standing Technical Committee*

M. Mclaws, R. Condoleo - *EuFMD*

09:30	T. Porphyre	<i>National Veterinary School of Lyon (ENVL), France</i>	<b>Keynote</b> Harnessing technology to collect and integrate data and convert to useful information for decision makers
09:50	A. Delgado	<i>U.S. Department of Agriculture (USDA), USA</i>	<b>Keynote</b> Modelling to inform disease control: Successes and pitfalls in applying model results to policy

10:10	Panel discussion		
10:40	Coffee / Tea break - Poster session / Desks		
11:10	R. Condoleo	<i>EuFMD</i>	Risk monitoring tool for FAST diseases (RMT-FAST): a semi-quantitative framework to estimate the risk of disease introduction
11:20	L. González Gordon	<i>The Roslin Institute University of Edinburgh, UK</i>	A Bayesian approach to model FMD outbreaks in Uganda: Disease mapping using R-INLA
11:30	M. Arede	<i>Facultat de Veterinària, Universitat Autònoma de Barcelona, Spain</i>	Mapping the risk of spread of Peste des Petits Ruminants in the Black Sea basin - A knowledge-driven approach
11:40	A. Delabougliise	<i>French Agricultural Research Centre for International Development (CIRAD), France</i>	Determinants of livestock mobility in Senegal
11:50	B. Ahmadi	<i>EuFMD</i>	VADEMOS: Applications of vaccine demand estimation tool for managing FAST diseases
12:00	M. Tildesley	<i>University of Warwick, UK</i>	Real-time decision making - Appropriate use of infectious disease models during outbreaks and in endemic settings
12:10	Panel discussion		
12:30	Poster session / Desks		
13:00	Lunch break		

## Session 6 – Surveillance and control

**Aim:** To share innovative experiences, ideas and approaches for the development, implementation, monitoring and evaluation of FAST surveillance and control programmes.

G. C. Ferrari, *EuFMD Standing Technical Committee*

C. Pötzsch, G. Ferrari - *EuFMD*

14:30	Opening		
14:40	K. Sumption	<i>FAO Chief Veterinary Officer</i>	<b>Keynote</b> Lessons learned from SARS-Cov-2 surveillance and control and implications for FMD/FAST surveillance and risk reduction
15:00	A. Cameron	<i>Ausvet Europe</i>	<b>Keynote</b> Sustainable market-driven early disease detection approaches
15:20	Panel discussion		
15:50	Coffee / Tea break - Poster session / Desks		
16:10	S. Mielke	<i>U.S. Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), USA</i>	Is FMDV serotype C extinct: What can the data tell us?
16:20	S. Gubbins	<i>The Pirbright Institute, UK</i>	Longitudinal animal and environmental sampling for FMDV in Northern Nigeria
16:30	R. McManus	<i>University of Glasgow, UK</i>	Investigating gaps for novel animal health surveillance data within Scotland

16:40	M. Bellaiche	<i>Kimron Veterinary Institute, Israel</i>	The potential use of drones in surveillance of FAST diseases
16:50	A. Di Nardo	<i>The Pirbright Institute, UK</i>	OpenFMD: A data sharing and analytical portal to enhance genomic and epidemiological surveillance of FMD
17:00	B. Purevsuren	<i>World Organization for Animal Health (WOAH)</i>	Digitalization of FMD datasets using visualization tool on SEACFMD portal
17:10	V. Basiladze	<i>Chief Veterinary Officer, Georgia</i>	The PCP-FMD progress in Georgia and how it advances FAST control
17:20	P. Compston	<i>Royal Veterinary College, London, UK</i>	Identifying and addressing the barriers to effective FMD vaccination in Nakuru county Kenya
17:30	Panel discussion		
17:50-18:05	<b>Closure</b>		

# WORKSHOPS

## DAY 2. FAST RISK MONITORING

Location: Marseille, France.

## DAY 3. FAST Vaccine Availability : improving vaccine security through long term supply option

Location: Marseille, France.