



## POSTER PRESENTATIONS

### 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**

Session I. Emergency preparedness and response

Session II. Digital learning for veterinarians

Session III. Virology and diagnostics

Session IV. Vaccinology

Session V. Risk assessment and modelling

Session VI. Surveillance and control

Presenter	Affiliation	Title	Session
M. Barbaruah	<i>AO Technical Assistance for Development of Sustainable Agriculture Value Chains in Mizoram (2021), FAO-India</i>	Developing a GIS-based decision support system to manage TADs in Mizoram, India	I
T. Kudzanayi Kuhamba	<i>Department of Electrical Engineering, University of Zimbabwe, Harare, Zimbabwe</i>	A deep learning based approach for FMD detection	I

K. Gibson	<i>The European Commission for the Control of Foot-and-Mouth Disease, Rome, Italy.</i>	Understanding the level of preparedness to use emergency vaccination for FAST diseases in European countries	I
K. Bidstrup	<i>Think Digital Studios, Animal Health Australia (AHA), Department of Primary Industries and Regions South Australia (PIRSA), Australia</i>	An augmented reality experience to educate on how to recognise emergency animal diseases in sheep	II
V. Busin	<i>School of Veterinary Medicine, University of Glasgow, Glasgow, United Kingdom</i>	“Lung inspector”: An innovative 3D teaching app for interactive classroom and self-paced learning	II
K. Choden	<i>World Organization for Animal Health (WOAH, founded as OIE) Sub Regional Representation for South-East Asia, Bangkok, Thailand</i>	SEACFMD portal: A central resource for FMD control and eradication in SouthEast Asia	II
C. De Laurentiis, L. Nela	<i>The European Commission for the Control of Foot-and-Mouth Disease, Rome, Italy</i>	Emergency toolbox: Digital solution for FAST diseases investigation	II
R. Papoula-Pereira	<i>Department of Livestock and One Health, Institute of Infection, Veterinary and Ecological Sciences, University of Liverpool, United Kingdom</i>	Online teaching targeted at large cohorts through formative assessment and escape rooms	II
N. Yusta	<i>Public Health, Pathology and Disease Investigation Department, School of Veterinary Medicine, University of Glasgow, Glasgow, United Kingdom</i>	Digital abattoir-enhancing veterinary public health learning and teaching	II
E. Alegi	<i>European Commission for the Control of Foot-and-Mouth Disease</i>	Gender responsive design for training veterinary paraprofessionals: findings from a needs assessment conducted in Nigeria, South Africa and Uganda	II

C. Bernelin-Cottet	<i>French Agency for Food, Environmental and Occupational Health &amp; Safety (ANSES), Animal Health Laboratory, European Union Reference Laboratory for foot and mouth disease, UMR (ANSES INRAE ENVA), Maisons Alfort, France</i>	Design of a transport tool for inactivated FMDV on lateral flow device from the field to the laboratory diagnostic	III
S. Blaise-Boisseau	<i>French Agency for Food, Environmental and Occupational Health &amp; Safety (ANSES), Animal Health Laboratory, INRAE, Enva, Maisons-Alfort, France</i>	Effect of Ruxolitinib on persistent FMDV infection in multilayered cells derived from bovine dorsal soft palate	III
E. Brown	<i>The Pirbright Institute, Pirbright, Surrey, United Kingdom</i>	Thoughts on environmental sampling: Methods to generate more information on FMDV using a simple sampling approach	III
L. Comtet	<i>IDVET, Grabels, France</i>	Highly sensitive and user-friendly DAS antigen ELISA for the detection of a wide spectrum of FMDV serotypes and strains	III
E. A. Foglia	<i>Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER), Brescia, Italy</i>	Correlation between virus neutralization test and solid phase competitive ELISA on vaccinated animals. The impact of homology among FMDV strains behind vaccines and tests	III
J. Kim	<i>Center for FMD Vaccine Research, Animal and Plant Quarantine Agency, Gimcheon, Republic of Korea</i>	Development and evaluation of liquid-phase blocking Elisa for the detection of antibodies to FMD vaccine strain A/POCHEN/SKR/2010	III
D. Lim	<i>Foot and mouth disease research division, Animal and Plant Quarantine Agency, Gimcheon, Republic of Korea</i>	Validation of digital RT-PCR: Sensitive and rapid detection of FMDV	III
G. Pezzoni	<i>Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER), Brescia, Italy</i>	Preliminary evaluation of lateral flow immunoassay for the antigen detection of lumpy skin disease virus	III

K. Parekh	<i>The Pirbright Institute, Pirbright, Surrey, United Kingdom</i>	Development of Luminex technology for detection of antibodies against structural proteins of foot-and mouth disease virus	III
M. Park	<i>Foot and Mouth Disease Diagnostic Division, Animal and Plant Quarantine Agency, Gimcheon, Republic of Korea</i>	Field application of novel solid phase blocking ELISA for antibody detection to FMDV type A	III
G. Pezzoni	<i>Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER), Brescia, Italy</i>	Evaluation of the immunogenicity of three structural proteins of lumpy skin disease virus	III
A.Romey	<i>French Agency for Food, Environmental and Occupational Health &amp; Safety (ANSES), Animal Health Laboratory, Maisons-Alfort, France</i>	Field evaluation of a safe and cost-effective shipment of FMDV suspected samples to diagnostic laboratories using lateral flow devices	III
A.L. Salomez	<i>French Agency for Food, Environmental and Occupational Health &amp; Safety (ANSES), Animal Health Laboratory, INRAe, Enva, Maisons-Alfort, France</i>	Validation of disinfection by directed and non-directed processes in the BSL3 laboratory handling live FMDV	III
R. Scian	<i>Biogénesis-Bagó S.A, Buenos Aires, Argentina.</i>	Comparative evaluation of commercial ELISA kits for the detection of antibodies against FMDV structural proteins	III
A. Yassin	<i>The Pirbright Institute, Ash Road, Pirbright, United Kingdom</i>	Identification of a cross reactive epitope within the G-H loop of FMDV	III
E. Bennour	<i>University of Tripoli, Libya</i>	The core group for vaccination advice, guidance and consultation - Middle East: Activities and perspectives	IV

C. Caldevilla	<i>Biogénesis Bagó S.A., Buenos Aires, Argentina</i>	Early and long-lasting antibody responses in sheep after single dose and two-dose course vaccination schedule with single oil emulsion vaccine containing O1 CAMPOS, A24 CRUZEIRO, A2001 ARGENTINA and ASIA1	IV
C. Caldevilla	<i>Biogénesis Bagó S.A., Buenos Aires, Argentina</i>	Protective capacity of vaccines containing O1 CAMPOS, A24 CRUZEIRO and A2001 ARGENTINA vaccine strains against FMD viral lineages circulating in East-SouthEast Asia, Middle East and North Africa	IV
E. A. Foglia	<i>Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER), Brescia, Italy</i>	Evaluation of FMD vaccine quality: Lights and shadows of the small-scale immunogenicity studies	IV
J. Kim	<i>Center for FMD Vaccine Research, Animal and Plant Quarantine Agency, Gimcheon, Republic of Korea</i>	Efficacy study of FMD vaccines against the challenge of the O/CATHAY isolate for the efficient control in pigs	IV
J. Kim	<i>Center for FMD Vaccine Research, Animal and Plant Quarantine Agency, Gimcheon, Republic of Korea</i>	Evaluation of the efficacy in pigs by vaccination of commercially available FMV vaccines against heterologous challenge with A/ASIA/G-VII lineage viruses	IV
S. Park	<i>Center for FMD Vaccine Research, Animal and Plant Quarantine Agency, Gimcheon, Republic of Korea</i>	Development of FMD vaccine for intradermal inoculation for swine	IV
A. Apolloni	<i>CIRAD, UMR ASTRE, INRA, Montpellier, France</i>	Using livestock mobility data to inform surveillance system: Application to the Senegal case	V
M. Begovoeva	<i>Department of Pathobiology and Population Sciences, Royal Veterinary College, London, United Kingdom.</i>	FMD in Northern Nigeria: Risk factors and spatial distribution in small ruminants	V

	<i>European Commission for the Control of Foot-and-Mouth Disease, Rome, Italy.</i>		
J. Ellis	<i>The Pirbright Institute, Ash Road, Pirbright, Surrey, United Kingdom</i>	Modelling the transmission routes for FMDV within a cattle herd	V
E. Fathelrahman	<i>Abu Dhabi Agricultural and Food Safety Authority (ADAFSA), Animals Health Division, Abu Dhabi, United Arab Emirates</i>	FMD control strategy in the United Arab Emirates - Spread modelling and progress towards eradication	V
L. González Gordon	<i>The Epidemiology, Economics and Risk Assessment (EERA) Group, The Roslin Institute at The Royal (Dick) School of Veterinary Studies, University of Edinburgh, Easter Bush, Midlothian, United Kingdom</i>	A scoping review of FMD risk, based on spatial and spatio-temporal analysis of outbreaks in endemic settings	V
G.Guyver-Fletcher	<i>The Zeeman Institute for Systems Biology &amp; Infectious Disease Epidemiology Research (SBIDER), The University of Warwick, Coventry, United Kingdom</i>	Assessing endemic FMD control strategies in the Republic of Türkiye using a mathematical metapopulation model	V
B. Hayes	<i>Host-Pathogens Interactions research unit, the National Veterinary School of Toulouse, Toulouse, France</i>  <i>Epidemiology Health and Welfare Department, Ploufragan-Plouzan'e-Niort Laboratory, the French Agency for Food, Environmental and Occupational Health &amp; Safety</i>	Epidemic modelling at the livestock-wildlife interface: Insights from a case study to the African swine fever pandemic in Romania	V
M. Iriarte	<i>Quantitative Veterinary Epidemiology group, Wageningen University &amp; Research. Veterinary School of Uruguay, Republic University</i>	The role of animal movements during the high risk period in the 2001 FMD epidemic in Uruguay	V
A. Javadi	<i>Iran Veterinary Organization, Viral and Prion Diseases Section</i>	Network and risk analysis of Iran's livestock movement in 2020 and 2021	V

A. Mesdour	<i>CIRAD, UMR ASTRE, INRA, Montpellier, France</i>	Identification of the determinants of animal mobility to better anticipate the spread of infectious diseases in West Africa	V
F. Munoz	<i>CIRAD, UMR ASTRE, Montpellier, France.</i>	External validation of spatial qualitative risk analysis	V
M. Simovikj	<i>Food and Veterinary Agency, Skopje, North Macedonia</i>	Digital transformations of the analog hunting grounds maps	V
W. Tennant	<i>The Zeeman Institute: SBIDER, University of Warwick, Coventry, UNITED KINGDOM</i>  <i>Mathematics Institute, University of Warwick, Coventry, United Kingdom</i>	Modelling the persistence and control of Rift Valley fever virus in the Comoros archipelago	V
S. Yadav	<i>The European Commission for the Control of Foot-and-Mouth Disease, Rome, Italy.</i>	Assessment of impacts of “Time to detection” of a FMD outbreak using a multi-country EuFMDiS model	V
W. Ahmed Al-Rawahi	<i>Department of Biology, College of Sciences, Sultan Qaboos University, Muscat, Sultanate of Oman</i>	First isolation, molecular detection and phylogenetic analysis of FMDV A/AFRICA/G1 in the Sultanate of Oman	VI
S. Baiomy	<i>The European Commission for the Control of Foot-and-Mouth Disease, Rome, Italy</i>	Potential public-private partnerships applied to control FMD and Similar Transboundary animal diseases in Sudan	VI
F. Banda	<i>Central Veterinary Research Institute, Lusaka, Zambia</i>	The first detection of a serotype O foot-and-mouth disease virus in Namibia	VI
R. Bassam	<i>Ministry of Agriculture, Lebanon</i>	Serological survey for the detection of FMD in livestock, Lebanon, winter 2020-2021	VI

	<i>Mediterranean and Black Sea field epidemiology training programme (MediPIET), Madrid, Spain</i>		
R. Bradhurst	<i>Centre of Excellence for Biosecurity Risk Analysis, University of Melbourne, Melbourne, Australia</i>  <i>The European Commission for the Control of Foot-and-Mouth Disease, Rome, Italy</i>	Using an epidemiological model to estimate the sensitivity of a surveillance system comprising serological and bulk tank milk testing	VI
E. Brown	<i>The Pirbright Institute, Ash Road, Pirbright, Surrey, United Kingdom</i>	Environmental sampling as a surveillance tool for TADs in endemic settings	VI
S-H. Cha	<i>Foot-and-Mouth Disease Diagnostic Division, Animal and Plant Quarantine Agency, Republic of Korea</i>	Phylogenetic analysis of foot-and-mouth disease virus circulating in Bangladesh, 2021	VI
C. Colenutt	<i>The Pirbright Institute, Ash Road, Pirbright, United Kingdom.</i>	FMDV surveillance at markets and abattoirs in Cameroon using environmental sampling	VI
J. Ellis	<i>The Pirbright Institute, Ash Road, Pirbright, Surrey, United Kingdom</i>	A modelling assessment of the value of environmental surveillance for FMDV in a cattle herd	VI
H. Ji Seo	<i>Foot and Mouth Disease Diagnostic Division, Animal and Plant Quarantine Agency, Gimcheon, Gyeongsang bUnited Kingdom-Do, Republic of Korea</i>	Serological surveillance of FMD immunity level in Republic of Korea, 2021	VI
K. Serres	<i>Faculty of Sciences, University of Montpellier, Montpellier, France</i>	West Nile virus signals detected by Padi-web Google news reports to improve disease risk mapping in Europe	VI
G.Limon	<i>The Pirbright Institute, Ash Road, Pirbright, Surrey, United Kingdom</i>	Understanding the role of small ruminants in the spread and endemicity of FMD	VI



S. Ryoo	<i>Foot-and-Mouth Disease Diagnostic Division, Animal and Plant Quarantine Agency, Republic of Korea</i>	Identification of foot-and-mouth disease virus genotype circulating in Laos between 2018 and 2020	VI
S. Ryoo	<i>Foot-and-Mouth Disease Diagnostic Division, Animal and Plant Quarantine Agency, Republic of Korea</i>	Molecular characterization of foot-and-mouth disease viruses isolated from Vietnam during 2019-2021	VI