

DRAFT - PROGRAMME

Open Session of the European Commission for the Control of Foot-and-Mouth Disease

Where science and policy meet: FMD RISK MANAGEMENT

in a world of changing disease landscapes

29-31 October 2014, Cavtat, Croatia

29 Oct. PLENARY SESSION

THE CHANGING DISEASE LANDSCAPE AND ITS IMPLICATIONS

Session I: OPENING

TIME	AUTHOR	ABSTRACT - title
9:00		Opening - EuFMD
9:25		EuFMD at 60 - Overview video
9:30	W. Vosloo	Frenkel lecture
9:45	T. Knight Jones	State of FMD research review (Keynote)
10:00-10:30	H.J. Ormel	The pressures affecting the current and emerging disease landscape (Keynote)

10:30-11:00 Coffee / Tea break

Session II: FMD TRENDS CHANGING DISEASE LANDSCAPE: GLOBAL CHALLENGE

TIME	AUTHOR	ABSTRACT - title
11:00	S. Alexandersen	Changing pathways: Lessons from recent pathogen migrations for FMD risk assessment (Keynote)
11:30	D. King	Update on current global situation for FMD: New outbreaks and threats (Keynote)
11:50	A. Mottet	Changing landscape for livestock production in Europe; directions and expected change in the next 20-30 years (includes wildlife issues) (Keynote) (Ad-connect)
12:10-12:30	J. Edwards	Changing landscape for livestock production and health in China and neighbouring countries; directions and implications for FMD management (Keynote) (Ad-connect)

29 Oct.

PARALLEL SESSION

THE CHANGING DISEASE LANDSCAPE AND ITS IMPLICATIONS

12:30-13:30 Lunch break

Session III: THE CHANGING LANDSCAPE FOR FMD MANAGEMENT

TIME	AUTHOR	ABSTRACT - title
13:30	F. J. Pérez Pérez	Contribution of the Food and Veterinary Office of the European Commission to reinforce FMD import risk management measures, and animal disease emergency preparedness and early warnings systems in the EU
13:50	K. Sumption	Prospects for FMD control
14:10	A.Cameron	Engaging livestock keepers as actors in animal health (Keynote)
14:30-14:50	J. Domenech	Control of FMD and other major infectious transboundary diseases towards better integration of control programmes (Keynote)

14:50-15:20 Coffee / Tea Break

Session IV: THE MANAGEMENT LANDSCAPE: LOOKING AHEAD, HUMAN CREATIVITY AND NEW BUSINESS

TIME	AUTHOR	ABSTRACT - title
15:20	N. Short	The expertise landscape: The FMD360 training programme, a panoramic view
15:40	S. Nouala	Changing landscape for FMD management in Africa (includes issues of growing export trade, gap in services and the last mile challenge; multi-TADS approaches and wildlife) (Keynote)

12:30-13:30 Lunch break

Session P1: VIROLOGY AND VACCINOLOGY

TIME	AUTHOR	ABSTRACT - title
13:30	W. Harvey	Quantifying and predicting antigenic relationships: A comparison of two alternative approaches investigated using data from FMDV and influenza A
13:45	M. Chitray	The introduction of positively-charged residues at the five-fold axis of the FMD virus SAT-type capsid enhances infection of cultured cells
14:00	D.J. Lefebvre	A Thiazepino[4,5-a]Benzimidazole derivative inhibits the in vitro replication of Eurasian serotypes of FMD virus
14:15	M. Fiorucci	Identification of FMDV strain in multivalent vaccines by using Loop Mediated Isothermal amplification
14:30-14:34	M. Mahapatra	Identification of a novel antibody binding determinants of serotype O FMD virus
14:35-14:39	L. Kopliku (S. Blaise-Boisseau)	Establishment of a persistent FMD Virus infection in MDBK cells
14:40-14:45	K. Fukai	Comparative utility of the fetal goat tongue cell line ZZ-R 127 and fetal bovine kidney cell line LFBK- $\alpha\beta 6$ for virus isolation from clinical samples collected from animals experimentally infected with a FMD virus
14:45-14:50	Meet with the 4 minute - presenters at their posters for Q&A --- Posters in "Session P1" wall ---	

14:50-15:20 Coffee / Tea Break

Session P2: DIAGNOSTIC METHODS (1) - Antigen/Antibody

TIME	AUTHOR	ABSTRACT - title
15:20	Anna B. Ludi	Results of the 2013 Proficiency Testing Scheme
15:35	K.Parekh	Development and validation of multiple non-structural protein antibody tests to confirm FMD infection in vaccinated animals
15:50	E. Brocchi	Ready-to-use ELISA kits for antibody to FMDV SAT1 and SAT

16:00	P.J. Hullinger	Foot and Mouth Disease Continuity of Business Planning for the U.S. Dairy Industry
16:20-16:30	Discussion	
16:30-16:45	P.L. Eblé	Kill the virus, spare the cow: disinfection as a tool everyone can use –better

16:05-16:09	A.K. Van Dreumel	Design of a PAN-FMD diagnostic bioreagent
16:10-16:14	A.Dekker	Validation of virus neutralisation test for all FMD to determine seroprevalence in cattle in Eritrea
16:15-16:19	K. Morioka	Development of lateral flow assay for antigen detection and serotyping FMDV
16:20-16:24	M. Ali	Development and comparison of various Elisa for the diagnosis of FMD
16:25-16:29	K. Van Maanen	Diagnostic observations of IZSLER Antigen ELISA kits for detection and serotyping of FMDV serotypes O, A, SAT1 and SAT2 in several North, West and East African countries
16:30-16:34	L. Comtet	New competitive Elisas for FMD diagnosis by detection of non-structural or structural antibodies against FMDV
from 16:35	Meet with the 4 minute - presenters at their posters for Q&A - - - Posters in "Session P2" wall - - -	

POSTER SESSION

SOCIAL PROGRAMME

POSTER SESSION

SOCIAL PROGRAMME

30 Oct. PLENARY SESSION

THE FMD SCIENCE AND POLICY DEVELOPMENT LANDSCAPE

Session V: FMD RISK MANAGEMENT IN FREE COUNTRIES (PILLAR I) - RISK ASSESSMENT AND EPIDEMIOLOGY

9:00	M. McLaws	Framework to compare the importance of the different source regions for entry of FMDV into Europe
9:15	L. Holmstrom (Biggers)	The enhanced passive surveillance system: A solution supporting data collection, integration and analysis for disease surveillance
9:30	G. T. Fosgate	Quantitative risk assesment evaluating the transmission of FMD via fresh deboned beef produced from an endemic region (Ad-connect)
9:45	M. Ward	Modelling FMD transmission in a feral pig-domestic cattle ecosystem
10:00	A.L. Rivas	Geographical facilitators and non-facilitators of FMD dissemination

30 Oct. PARALLEL SESSION

THE FMD SCIENCE AND POLICY DEVELOPMENT LANDSCAPE

P3. PROGRESSIVE CONTROL OF FMD: TECHNICAL DEVELOPMENTS AND ISSUES FOR NON FREE COUNTRIES (PILLAR II)

9:00	K. Bachanek-Bankowska	Outbreaks of FMDV in Libya and Saudi Arabia during 2013 due to an exotic O/ME-SA/IND-2001 Lineage
9:15	T.J.D. Knight-Jones	Mass vaccination, immunity and coverage: Modelling population protection against FMD in Turkish cattle
9:30	P.M. Dawson	Modelling endemic FMD in Turkey
9:45	H. A. Heni	FMD health situation in Tunisia
10:00	G. Ferrari	Serological survey in Libya to asses FMD viruses circulation and vaccine immune response

10:15-10:19	E. Brown	Evaluating the transmission and survival of FMDV on environmental fomites
10:20-10:24	L. Burgin	Techniques to assess the risk of airborne spread of FMD and examine underlying uncertainties
10:25-10:29	T. Boyer	Development of a standard model for FMD in the United States
from 10:30	Meet with the 4 minute - presenters at their posters for Q&A --- Posters in "Session V" wall ---	

10:30-11:00 Coffee / Tea break

Session VI: FMD RISK MANAGEMENT IN FREE COUNTRIES (PILLAR I)

TIME	AUTHOR	ABSTRACT - title
11:00	S. Mortensen	Resource estimations in contingency planning for FMD
11:15	K. Walker	Maximising efficiency with a surveillance strategy for FMD during an outbreak in a previously FMD-free country
11:30	C. Cook	Evaluating vaccination strategies to control FMD: A model comparison study
11:45	M. Marsot	Impact of stakeholders influence, geographic level and risk perception on strategic decisions in simulated FMD epizootics in France
12:00	M.J. Tildesley	An adaptive management approach to foot-and-mouth disease control
12:15-12:19	T. Lindström	Ensemble forecasting for epidemiology: How to combine multiple projections of FMD
12:20-12:24	T. Boyer (A. Delgado)	Epidemiologic and economic impacts of applying alternative control strategies for FMD in feedlot operations
12:25-12:29	Andre van Halderen	Epidemiological and economic modelling to determine the cost to New Zealand of a FMD outbreak
from 12:30	Meet with the 4 minute - presenters at their posters for Q&A --- Posters in "Session VI" wall ---	

10:15-10:19	A. Dayhum	Seroepidemiological study of FMD in livestock in Tripoli, Libya
10:20-10:24	I. Eldaghayes	FMD in Libya and the control strategy
from 10:25	Meet with the 4 minute - presenters at their posters for Q&A --- Posters in "Session P3" wall ---	

10:30-11:00 Coffee / Tea break

Session P4: PROGRESSIVE CONTROL OF FMD: TECHNICAL DEVELOPMENTS AND ISSUES FOR NON FREE COUNTRIES (PILLAR II)

TIME	AUTHOR	ABSTRACT - title
11:00	C.J.M. Bartels	Promoting a risk-based strategy plan for FMD control in endemically infected countries: Development and examples from 4 countries
11:15	M. McLaws	Serosurveillance and the PCP-FMD: Why are serosurveys useful, how are they being used and what are the gaps?
11:30	P. Eble	Vaccination of cattle only seems to be sufficient to stop transmission in most mixed populations of cattle and sheep
11:45	K. Biggers	ELITE: An electronic laboratory information tracking environment for supporting the Progressive Control of FMD in Pakistan
12:00-12:04	B- Valdazo-González	Molecular variability within the FMD virus O-PanAsia-2 lineage
12:05-12:09	D. D. Lazarus	Knowledge and perceptions of communal farmers concerning FMD at the wildlife/livestock interface of the Kruger National Park (Ad-Connect)
from 12:10	Meet with the 4 minute - presenters at their posters for Q&A --- Posters in "Session P4" wall ---	

12:30-13:30 Lunch break

Session VII: GFRA LED SESSION (1): VACCINE STABILITY

TIME	AUTHOR	ABSTRACT - title
13:30 -14:00	T. Doel	FMD virus stability: implications for vaccine efficacy (Keynote)
14:00	J. Seago	Thermofluor analysis of the FMDV capsid and the effects of different solutions on stability
14:15	E. Pérez Martín	A method based on the use of specific llama antibodies for quality control testing of FMD vaccines
14:30	K. Scott	Evaluation of the immune responses of Nguni cattle vaccinated with foot-and-mouth disease virus stabilised SAT2 antigens
14:45-15:00	L. Mouton	Demonstration of a high potency SAT2 vaccine in cattle and confirmation of efficacy in pigs against virulent challenge

15:00-15:30 Coffee / Tea break

Session VIII : GFRA LED SESSION (2). FMD ECOLOGY

TIME	AUTHOR	ABSTRACT - title
15:30-16:00	R Garabed	Looking Forward from FMD Epidemiology to FMD Ecology (Keynote)
16:00	A Jolles	Mechanisms of persistence of FMDV in African buffalo populations: A briefing on current work at Kruger National Park
16:15	J. Arzt (L. Rodríguez)	Foot-and Mouth Disease Ecological Studies In Endemic Settings: Ongoing Studies in Vietnam and Pakistan
16:30	GJ Belsham	An Emergent Strain Of Foot-And-Mouth Disease Virus, Serotype Sat 3, Isolated From A Long-Horned Ankole Calf In The Queen Elizabeth National Park In Uganda

12:30-13:30 Lunch break

Session P5: PCP-FMD Asia

TIME	AUTHOR	ABSTRACT - title
13:30	R.C. Abila	SEAC FMD Roadmap: A risk-based approach to FMD control in SE Asia and China
13:45	G. K. Sharma	Epidemiological investigation of Foot and Mouth Disease incidences in southern peninsular India during 2013
14:00	M.E. Schuppers	Using risk assesment to inform FMD policy in Mongolia
14:15	J. Hinrichs	Pig, cattle and buffalo value and social network analysis in Xayabury province of LAO PDR (Ad_connect)
14:30-14:45	U. Waheed	Isolation and identification of FMDV types and its sequence analysis on the basis of P1 (Capsid protein gene) in Pakistan
14:45-14:49	C.J.M. Bartels	Promoting a risk based strategic plan for FMD control: Improvement of risk assessment through real time training (RTT)
14:50-14:54	R.C. Abila	Epidemiological analysis of FMD outbreaks in South-East Asia and China (2010-2014)
from 14:55	Meet with the 4 minute - presenters at their posters for Q&A - - - Posters at the "Session P5" wall - - -	

15:00-15:30 Coffee / Tea break

MODELLING NETWORK MEETING (by invitation)

from 15:30

16:45 - 17:00	VL Fowler	Recovery Of Viral RNA And Infectious Foot-And-Mouth Disease Virus From Positive Lateral-Flow Devices
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POSTER SESSION
SOCIAL PROGRAMME

31 Oct. PLENARY SESSION

FMD FUTURE: RESPONDING TO CHANGE IN THE GLOBAL LANDSCAPE

Session IX : IMPACT AND AFRICA

TIME	AUTHOR	ABSTRACT - title
8:30	S. Metwally	Global landscape of FMD control
9:00	J. Rushton	What do we know about the economic impact of FMD in smallholder production? - Summary of the evidence
9:15	N.A. Lyons	Impact of FMD on milk yield, mastitis and culling on a large-scale dairy farm in Kenya
9:30	M. Casey	Household level impacts of FMD on traditional livestock-keeping systems of Northern Tanzania
9:45	A. Chrisostom	Emerging massive FMDV outbreaks in Uganda and possible impact on PCP
10:00-10:04	F. Banda	Investigation of foot-and-mouth disease outbreaks in Mbala and Kazungula districts in Zambia
10:05-10:09	B. Kibore	The epizootiology of FMD in high risk zones in Kenya
from 10:10	Meet with the 4 minute - presenters at their posters for Q&A --- Posters in " Session IX" wall ---	

10:30-11:00 Coffee / Tea break

Session X : IMMUNISATION AND VACCINES

GFRA MEETING (by invitation)

from 17:00

POSTER SESSION
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31Oct. PARALLEL SESSION

FMD FUTURE: RESPONDING TO CHANGE IN THE GLOBAL LANDSCAPE

Session P6 : DIAGNOSTICS (2): MOLECULAR DIAGNOSTIC DEVELOPMENTS

TIME	AUTHOR	ABSTRACT - title
9:00	S.M.Jamal	Development of probe-based real time RT-PCR assays for detection and serotyping of FMDVs circulating in West EurAsia
9:15	K. Górna (Blaise-Boisseau)	Development and evaluation of a multiplex conventional RT-PCR for simultaneous detection and typing of FMDV in West Africa
9:30	K. Bachanek-Bankowska	Development of tailored specific real-time RT-PCR assays for detection of FMDV serotypes A, O, SAT 1 and SAT 2 circulating in East Africa
9:45	B. Armson	Real-time RT-PCR for the rapid detection of FMDV in milk
10:00	E. Howson	Realising the potential of simple isothermal molecular tools for field diagnosis of FMD
10:15-10:30	V. L. Fowler	Development and evaluation of multiplex reverse transcription loop mediated isothermal amplification assays combined with lateral-flow visualisation for the discrimination of FMD from other vesicular diseases

10:30-11:00 Coffee / Tea break

Session P7 : TRANSMISSION AND FMD DIAGNOSIS IN NON-AFRICAN WILDLIFE

TIME	AUTHOR	ABSTRACT - title
11:00	N.A. Lyons	Vaccine evaluation on large-scale dairy farms using routine prophylactic schedules for FMD
11:15	A. V. Capozzo	Maternal immune cells transferred through colostrum do not interfere with the immune responses to FMD vaccine
11:30	W. Vosloo	Serotype O vaccine efficacy and challenge with different viruses from South East Asia in various species
11:45	A. V. Capozzo	Simultaneous immunization of cattle with FMD and live Anthrax vaccines
NO	K-N. Lee	Longitudinal studies on the immunogenicity of different vaccination methods of highly potent FMD oil vaccine for weaner pigs
NO	A.M. Shamia	The field effectiveness of an O Manisa + O 3039 vaccine for the control of an O/ME-SA/IND-2001 FMD outbreak in a private dairy farm in Saudi Arabia
12:00-12:04	Otto D. Mozzer	Overview on the performance of FMD Vaccines in Potency Tests using Ip-ELISA: a perspective from a Manufacturer in South America
12:05-12:09	Dongseob Tark	Detection of antibodies against NSP residues in the commercial FMD trivalent vaccines after multiple vaccinations in cattle and goats
12:10-12:14	J. Horsington	Early protection in sheep against heterologous challenge with serotype O FMDV using high potency vaccine
12:15-12:19	N.B. Singanallur	Testing the efficacy of O1 Manisa high potency vaccine against challenge with O/SKR/2010 (O MYA98) strain in sheep
from 12:20	Meet with the 4 minute - presenters at their posters for Q&A --- Posters in "Session X" wall ---	

12:40-13:40 Lunch break

Session XI: THE FUTURE OF VACCINATION

TIME	AUTHOR	ABSTRACT - title
13:40	T. Golde	Developing technologies to understand duration of immunity following FMDV vaccination of livestock species
13:55	F.F. Maree	Novel vaccine strategies for the control of FMD in Africa

TIME	AUTHOR	ABSTRACT - title
11:00	A. Di Nardo	From sequence to prevalence: Phylodynamics of FMDV
11:15	D.J. King	Beyond the consensus: Investigating intra-herd variability of FMDV using the Illumina Miseq
11:30	J.L. Gonzales	Probability of infection of cattle, sheep and pigs exposed to FMD virus aerosols
11:45	G. Freimanis	A novel protocol to generate consensus level genome sequences for FMD virus and its application to sequencing a large outbreak
12:00	S. Mouchantat (B. Haas)	Non-invasive sampling systems for the detection of FMDV in wild boar
12:15-12:19	R. Kittelberger	Performance of diagnostic tests for FMD in red deer
12:20-12:24	C. Colenutt	Evaluation of two air samplers for detection and quantification of airborne FMDV
from 12:25	Meet with the 4 minute - presenters at their posters for Q&A --- Posters in "Session P7" wall ---	

12:40-13:40 Lunch break

Session P8 : UNDERSTANDING FMDV DIVERSITY IN AFRICA

TIME	AUTHOR	ABSTRACT - title
13:40	M. Cortey	Evolution of FMDV during persistence in African buffalo
13:55	S. N. Wekesa	Genetic characterization of circulating FMD viruses from African buffalo (<i>Syncerus caffer</i>) and cattle in Kenya: Evidence for independent virus populations

14:10	S. Parida	Recombinant adenovirus expressing empty capsid of serotype A22 FMDV provides sterile immunity in cattle following homologous prime-boost vaccination
14:25	M. Colby	Defining requirements and execution of international field trials for next generation FMD vaccines and diagnostics
14:40- 14:44	M. Ali	Development of a novel, recombinant, potent, and safe DIVA vaccine for FMD
14:45-14:49	M- Habiela	Follicular dendritic cells (FDCS): A key player in the pathogenesis of FMD virus?
15:00-15:04	S.N. Singh	Vaccine development, challenges and strategies for FMD control in Indian subcontinent (Ad-connect)
15:05-15:19	Meet with the 4 minute - presenters at their posters for Q&A --- Posters in "Session XI" wall ---	

15:20-16:10 Coffee / Tea break

Session XII: FINAL KEYNOTE, CONCLUSIONS AND CLOSING

TIME	AUTHOR	ABSTRACT - title
16:10-16:30	S. Malvoti	Lessons from delivery and impact assessment of human vaccination programmes: the GAVI experience (Keynote) (Ad-connect)
16:30-17:10	Conclusions + Report + Appreciations	

14:10	K. Tjørnehøj	Multiple FMDV serotypes identified in Uganda during 2010-2013
14:25	C.J. Kasanga	Identification of novel genotypes of FMDV recovered from African buffalo in Marromeu, Mozambique
14:40	B. Blignaut	Emergence of antigenic variants of SAT2 FMD viruses at the wildlife/livestock interface in South Africa
14:55-14:59	C. Ayebazibwe	Challenges for FMDV diagnosis - Case study of outbreak confirmation in Uganda (2011-2014)
15:00-15:04	F.F. Maree	A vaccine matching study for SAT2 viruses in Southern Africa
15:05-15:19	K. Lloyd-Jones	Antigenic and genetic characterization of FMDV serotype O circulating in East Africa
from 15:20	Meet with the 4 minute - presenters at their posters for Q&A --- Posters in "Session P8" wall ---	

15:20-16:10 Coffee / Tea break