

DAY 1 - TUESDAY 29<sup>th</sup>

Activity	Details	Starting at	
<b>Opening Ceremony</b>	<b>TBA</b>	08:30	GENERAL SESSIONS DIAGNOSTICS SESSIONS EPIDEMIOLOGY SESSIONS PATHOGENESIS & IMMUNOLOGY SESSIONS VACCINES SESSIONS VIROLOGY SESSIONS
FMD status in South-East Asia, China and Mongolia	<b>Ronello Abila, OIE</b>	09:00	<b>Opening Session</b>
The global epidemiological situation of FMD	<b>Anna Ludi, WRL</b>	09:15	
Global vaccine security and FMD	<b>Keith Sumption, EuFMD</b>	09:30	
Progress of the global FMD control strategy	<b>Samia Metwally, FAO</b>	09:45	
<b>DISCUSSION</b>		10:00	
<b>Tea Time</b>		10:15	
Improved vaccine for FMD eradication	<b>Jong-Hyeon Park, APQA</b>	10:45	<b>Session 1</b>
<b>INTRODUCTION</b>	<b>A. Capozzo / M. Mahapatra</b>	11:15	
<i>Low protection with an A/Asia/G-VII lineage FMDV emergency vaccine against an FMDV A/Asia/Iran-05 lineage virus challenge</i>	<b>P. Eblé</b>		
<i>Challenges in FMDV strain selection as an input to attain broad vaccine cross-protection</i>	<b>I. Bergmann</b>		
<i>Protective capacity of FMD South American vaccine strains O1-Campos, A24 and A2001 against southeast Asian viruses of currently circulating topotypes</i>	<b>V. Malirat</b>		
<i>Evaluation of FMDV serotype-O with improved thermostability as a vaccine candidate</i>	<b>B. Sreenivasa</b>		
<b>DISCUSSION</b>			
<b>Poster Pitch 1</b>		12:20	
<b>Lunch and Poster Viewing</b>		12:40	
Foot-and-mouth disease control in endemic African settings: opportunities and challenges	<b>Tiziana Lembo, University of Glasgow</b>	14:00	<b>Session 2</b>
<b>INTRODUCTION</b>	<b>D. Nilubol/T. Lembo</b>	14:30	
<i>Complete genome analyses of FMDV viruses belonging to serotypes O, A and SAT 2 in East, West and North Africa</i>	<b>N. Knowles</b>		
<i>Molecular epidemiology of FMD virus serotype O in Thailand during 2017-2019</i>	<b>S. Ungvanijban</b>		
<i>Use of new bioinformatics tools applied to a regional evolutionary study of FMDV in the 2000-2001 epidemics in Argentina</i>	<b>G. König</b>		
<b>DISCUSSION</b>			
<i>Evolutionary competition drives the emergence and extinction of FMDV lineages</i>	<b>A. Di Nardo</b>		
<i>Spatial epidemiology, phylogeography, and risk factors for FMD in Uganda</i>	<b>A. Munsey</b>		
<b>DISCUSSION</b>			
<b>Poster Pitch 2</b>		15:50	
<b>Tea Time and Poster Viewing</b>		16:00	
FMD vaccine failures in the field	<b>Dachrit Nilubol, Chulalongkorn University</b>	16:30	<b>Session 3</b>
<b>INTRODUCTION</b>	<b>A. Ludi / Y. Li</b>	16:50	
<i>An overview of 146S-specific llama single-domain antibody fragments for use in FMD vaccine quality control</i>	<b>M. Harmsen</b>		
<i>Construction of a recombinant Ab phage display library derived from the immune repertoire of FMDV-SAT infected buffalo. Potential new diagnostic reagents?</i>	<b>P. Opperman</b>		
<i>Reduction of Agpath reagent used in FMDV real-time TaqMan assay</i>	<b>N. Walker</b>		
<i>Viral particles prepared by size exclusion chromatography can be used as coating material for serological assays</i>	<b>C. Turco</b>		
<b>DISCUSSION</b>			
<b>Poster Pitch 3</b>		18:00	
<b>Free Time and Poster Viewing</b>		18:20	
"GFRA - Are We there yet?"	<b>Jeff Hammond</b>	19:00	
<b>Dinner</b>		19:30	
		21:30	

DAY 2 - WEDNESDAY 30<sup>th</sup>

Activity	Details	Starting at	
Towards improved foot-and-mouth disease vaccines by dissecting immune responses using systems immunology approaches	<b>Artur Summerfield, University of Bern</b>	08:30	<b>Session 4</b>
<b>INTRODUCTION</b>	<b>A. Summerfield / N. Singanallur</b>	09:00	
<i>Ripk3 restricted FMDV infection via necroptosis-independent inflammation</i>	<b>X. Qin</b>		
<i>Viral determinants of FMDV A/Arg/01 virulence in adult mice</i>	<b>M. Gismondi</b>		
<i>Comparison of the adaptive immune responses induced by FMD-vaccines formulated with 146S and 75S particles in mice and cattle</i>	<b>M. Miraglia</b>		
<i>The pathogenesis of simultaneous and serial FMDV coinfections in cattle</i>	<b>C. Stenfeldt</b>		
<b>DISCUSSION</b>			
<b>Poster Pitch 4</b>		10:05	
<b>Tea Time and Poster Viewing</b>		10:20	
<i>Serological assays used to measure vaccine-induced responses against FMDV</i>	<b>A. Capozzo</b>	10:50	<b>Session 5</b>
<i>Understanding serotypic cross-reactivity of antibody ELISAs and the impact on interpretation</i>	<b>A. Ludi</b>		
<i>In-vitro vaccine-matching for FMDV: does bovine vaccinal sera (BSV) impact upon the reliability of serological immune responses?</i>	<b>J. Senawi</b>		
<i>Sero-surveillance of FMD in wild boars in Korea</i>	<b>C. Lee</b>		
<b>DISCUSSION</b>	<b>K. Scott / R. Reeve</b>		
<b>Poster Pitch 5</b>		11:45	
<b>Lunch and Poster Viewing GFRA Partner Meeting</b>		12:00	
FMDV undermines the host antiviral response by cleavage of key innate immune sensors. Lessons learned from the foe.	<b>Margarita Saiz, CBMSO-CSIC</b>	13:30	<b>Session 6</b>
<b>INTRODUCTION</b>	<b>E. Rieder / T. De Los Santos</b>	14:00	
<i>Deep sequencing of FMDV reveals association between vaccination, population bottlenecks, and adaptation</i>	<b>I. Fish</b>		
<i>Single point mutation of FMDV L-pro affects deisglylation and modulates the host innate immune response</i>	<b>G. Medina</b>		
<i>Sec62 negatively regulates FMDV replication by up-regulating IRE1α-RIG-I-mediated antiviral response</i>	<b>H. Guo</b>		
<i>STING-mediated integrated stress response to FMDV infection</i>	<b>R. Zhang</b>		
<b>DISCUSSION</b>			
<b>Poster Pitch 6</b>		15:05	
<b>Tea Time and Poser Viewing</b>		15:15	
<b>INTRODUCTION</b>	<b>W. Vosloo / F. Maree</b>	15:45	<b>Session 7</b>
<i>FMD vaccine platform: formulations for safe and DIVA-compatible FMD vaccines with improved potency</i>	<b>J. Hartham</b>		
<i>Baculovirus-induced fast-acting innate immunity as an antiviral strategy against FMDV</i>	<b>G. Molina</b>		
<i>Re-establishment of FMD vaccine production capacity in South Africa: immunogenicity studies of vaccine's antigens in guinea pigs and cattle</i>	<b>F. Peta</b>		
<b>DISCUSSION</b>			
<b>Poster Pitch 7</b>		16:40	
<b>FMD vaccines for Eastern Africa Initiative</b>	<b>J. Salt</b>	16:50	
<b>Free Time and Poster Viewing</b>		17:00	
<b>Gala Dinner</b>		17:30	
		23:30	

DAY 3 - THURSDAY 31<sup>st</sup>

Activity	Details	Starting at	
<b>INTRODUCTION</b>	<b>Z. Zhang / M. Saiz</b>	08:30	<b>Session 8</b>
<i>Identification of RNA packaging signals in the genome of FMDV</i>	<b>T. Tuthill</b>		
<i>Molecular features of the integrin receptor and its interaction with the FMDV, an in-silico study</i>	<b>G. König</b>		
<i>RNA secondary structure variation of CRE of FMDV is associated with host infection sensitivity</i>	<b>J. Cheong</b>		
<i>Antiviral efficacy of short hairpin RNAs and artificial microRNAs targeting FMDV 3D</i>	<b>M. Gismondi</b>		
<b>DISCUSSION</b>			
<b>INTRODUCTION</b>	<b>J. Arzt / M. Perez-Figueira</b>	09:35	<b>Session 9</b>
<i>Genetic basis of the antigenic variation of the FMD virus during persistent infection in naturally infected cattle and Asian buffalo</i>	<b>J. Biswal</b>		
<i>A new topical therapy for FMD addresses animal welfare and other issues</i>	<b>P. Windsor</b>		
<i>Experimental infection of goats with FMDV SAT-1 serotype: their role in disease transmission</i>	<b>P. Mutowembwa</b>		
<b>DISCUSSION</b>			
<b>Tea Time and Poster Viewing</b>		10:30	
The FMD and its control in China	<b>Y. Li, The Chinese/OIE Reference Laboratory for FMD</b>	11:00	<b>Session 10</b>
<b>INTRODUCTION</b>	<b>G. König/F. Mwini/N. Knowles</b>	11:20	
<i>Our challenge is to deliver effective biosecurity in FMD endemic countries in South East Asia</i>	<b>I. MacPhillamy</b>		
<i>Serological epidemiology of FMD in sedentary mixed-species herds in Adamawa, Cameroon</i>	<b>S. Lendzele</b>		
<i>Estimation of R0 for FMDV from surveillance data in endemic settings</i>	<b>A. Dekker</b>		
<b>DISCUSSION</b>			
<i>Interaction of temperature and humidity on stability of FMD virus serotype O strains</i>	<b>N. Singanallur</b>		
<i>Livestock mobility and the implications for endemic FMD spread and control in East Africa</i>	<b>D. Ekwem</b>		
<i>Updating parameters for modeling infectiousness of FMDV in pigs</i>	<b>J. Arzt</b>		
<b>DISCUSSION</b>			
<b>Wrap Up Session</b>	<b>TBA</b>	12:50	<b>Closure</b>
<b>Lunch</b>		13:30	
<b>STAR-IDAZ workshop</b>		15:00	
		18:30	