

Epidemiology, Surveillance, Transmission and Control of Foot-and-Mouth Disease in Endemic Settings of Africa.



Hosted by Sokoine University of Agriculture and SACIDS in Arusha, Tanzania 8 to 10 October 2013

AGENDA

8 October: Foot and mouth disease: a global one health problem

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09.00-09.30	 Opening session: Welcoming from GFRA: Francois F Maree 	10 min
	Words of welcoming from local organizer: Christopher Kasanga	10 min
	Official opening: SACIDS & Ministry of Livestock and Fisheries Development	10 min
09.30-11.00	Session 1: FMD: a global one-health problem Coordinators: Francois Maree & Christopher Kasanga	
	 Overview of the Global FMD situation Speaker: Don King (WRL, Pirbright, UK) 	15 min
	 FMDV variation and molecular epidemiology in Africa Speaker: Nick Knowles (Pirbright, UK) 	15 min

	 Foot-and Mouth Disease Ecological Studies In Endemic Settings: Knowing The Enemy You Want to Defeat Speaker: Luis Rodriguez (PIADC, USDA) 	15 min
	 Foot-and Mouth Disease Vaccines To Address Genetic Variation Speaker: Elizabeth Rieder (PIADC, USDA) 	15 min
	 A web-based system for near-real time sharing and analyzing FMD data. Speaker: Andres Perez (UC Davis, USA) 	15 min
	 Molecular epidemiology of FMDV in Southern Africa: challenges for FMD control and prioritized research agenda in endemic 	15 min
	settings Speaker: Christopher Kasanga (SACIDS-SUA, Tanzania)	
11.00-11.30	Coffee break	
11.30-13.00	Open Session 2: Coordinators: Frank Mwiine & Katherine Scott	
	 The relation between antibody titre and protection can be used to calculate the level of protection in the population. Speaker: Aldo Dekker (Lelystadt, The Netherlands) 	15 min
	 The influence of colostrum in the immune responses induced by foot-and-mouth disease vaccination in calves Speaker: Alejandra Capozzo (CNIA-INTA, Argentina) 	15 min
	 Heterogeneity in the antibody response to foot-and-mouth disease primo vaccinated calves Speaker: Andres Perez (UC Davis, USA) 	15 min
	 FMD situation and conjectured status of FMDV serotype distribution in Tanzania Speaker: Jorum Mghwira and Christopher Kasanga (MoLFD & SACIDS, Tanzania) 	15 min
	 Comparative analysis of foot-and-mouth disease virus serotype A positive selection in Pakistan, Afghanistan, Iran and Turkey. Speaker: Barbara Brito (UC Davis, USA) 	15 min
	 Intra-herd sequence variability for FMDV strain A/Argentina/2001 Speaker: Guido Konig (CNIA-INTA, Argentina) 	15 min
13.00-14.00	Lunch	
14.00-16.00	Open Session 3:	
	Coordinators: Tiziana Lembo & Paidamwoyo Mutowembwa	
	• Genetic and antigenic heterogeneity of SAT type FMDV in southern Africa and the implication on vaccine selection Speaker: Francois F Maree (ARC-OVI, South Africa)	20 min

	Vaccine matching in selection of appropriate vaccines for FMDV Speaker: Wilna Vosloo (CSIRO, Australia)	20 min
	 Vaccination and control of FMD in cattle at livestock-wildlife interface areas of the Kruger National Park Speaker: David Lazarus (University of Pretoria, South Africa) 	15 min
	 FMDV occurrence and control challenges in Uganda Speaker: Chrisostom Ayebazibwe (MAIFF, Uganda) 	15 min
	 Phylogeography of FMDV in endemic settings: a case study of Tanzania Speaker: Raphael Sallu (TVLA & SUA, Tanzania) 	15 min
	 Surveillance for FMDV infection in cattle and buffalo in selected livestock-wildlife interface areas of Tanzania Speaker: Mathias Mkama (TVLA & SUA, Tanzania) 	15 min
	 Epidemiology and control options of FMD in Zambia Speaker: Yona Sinkala (Epidemiology Unit, Zambia) 	10 min
	 Field evaluation of FMD vaccination programmes in an endemic setting Speaker: Theodore Knight-jones (Pirbright, UK) 	10 min
16.00-16.30	Coffee break	
16.30-17.00	Discussions	
	Coordinators: Wilna Vosloo & Jorum Mghwira	
	Gaps in knowledge of transmission and epidemiology in local settings	
17:00-18:30	Free time – side meetings	
18:30 - 20:00	Dinner	

9 October: Epidemiology and transmission of FMD in endemic settings

09.00-11.00	Session 4: Epidemiology and transmission of FMD Coordinators: Melanie Chitray & Guido König	
	 Comparative structural and functional analyses of the nasopharynx in foot and mouth disease Speaker: Jonathan Arzt (PIADC, USDA) 	20 min
	 FMDV transmission from wildlife, current studies and future trends Speaker: Bryan Charleston (Pirbright, UK) 	20 min
	 Effect of vaccination on FMDV transmission in cattle. Speaker: Natalia Aznar (CNIA-INTA, Argentina) 	15 min
	Correlates of infectiousness and preclinical detection of foot-	15 min

	and-mouth disease virus	
	Speaker: Jose Gonzales (Pirbright, UK)	
	 Accuracy of traditional and novel serology tests for predicting cross-protection in foot-and-mouth disease vaccinated cattle Speaker: Alejandra Capozzo (CNIA-INTA, Argentina) 	15 min
	 In-country Vaccine Matching Studies: Results from Pakistan. Speaker: Anna Ludi (PIADC, USDA) 	15 min
11.00-11.30	Coffee break	
11:30 – 12 :30	Open Session 5: Coordinator: Guido König & Philemon Wambura	
	Coordinator. Guido Rong & Fillemon Wallibura	
	 Assessing the risk of FMD transmission in the GLTFCA. Speaker: Ferran Jori (CIRAD / University of Pretoria) 	15 min
	 Predicting the foot-and-mouth disease virus infection history of animals in an endemic area from partial data. Speaker: Miriam Casey (Glasgow University) 	15 min
	 Antigenic variation in serotype O and A viruses from East-Africa Speaker: Amin Asfor & Mana Mahapatra (Pirbright Institute) 	15 min
	 Assessment of correlation between in vivo and in vitro tests for FMDV O strain vaccine matching studies in endemic and free areas of South America Speaker: Claudia Perez-Beascoechea (SENASA) 	15 min
12:30 - 13:30	Lunch	
13:30- 18:30	VISIT TO ARUSHA NATIONAL PARK	
18:30 – 20:30	Dinner	

10 October: Research needs and Priorities

09.00-11.00	Open Session 6: Assessment of understanding the economic and welfare impact of FMD - impact on human health Coordinator: Mark Rweyemamu & Alejandra Cappozo	
	 The economic impacts of FMD Speaker: Jonathan Rushton (Royal Veterinary College, UK) 	20 min
	 Nomadic lifestyle and the role of nomads in the spread of FMD Speaker: Rebecca Garabed (Ohio University) 	20 min
	 The epidemiology and the ecology of the foot and mouth disease at the wild/domestic interface Speaker: Eve Miguel (Institute) 	20 min
	 Incompatibilities between trade standards and the epidemiological behaviour of SAT viruses in endemic locations in 	20 min

	 southern Africa. Speaker: Gavin Thomson (TAD Scientific, SA) Using risk-based strategic plans as a tool to aid PCP activities, and how monitoring and evaluation of outcomes can link to achieving the objectives and assessing the impact. Speaker: Eoin Ryan (FAO) OPEN 	20 min
11.00-11.30	Coffee Break	
11.30-13.00	OPEN EPIDEMIOLOGY BRIEF REPORTS – (10 minutes each)	
13.00-14.00	Lunch	
14.00-16.00	Open Session 6: Breakout Sessions – Research Needs and	
11.00 10.00	Priorities	
	Coordinator: B Charleston & Luis Rodriguez	
	Each breakout group will review issues and problems identified during the workshop and write objectives for each research priority.	20 min
	 Breakout Group 1: Disease Surveillance and Diagnostics Priorities assessment Research objectives 	
	 Breakout Group 2: Disease Control – vaccines, other control methods Priorities assessment 	
	Research objectives	
	 Breakout Group 3: Epidemiology – transmission, long-term natural maintenance Priorities assessment Research objectives 	
16:00-17:00	Reports from breakout groups 1 -3 (20 min each)	
17:00 - 17:30	GFRA Meeting closing – remarks by participants	
17:30 - 18:30	Free time – side meetings	
18:30 - 20:30	Dinner	
10.00 - 20.00		