



28 JUNE – 2 JULY 2021 10:00 - 15:00 CET VIRTUAL EVENT

MONDAY	28 June 2021, 10:00-12:30
10:00 - 10:30	Opening Remarks Moderator: Gerrit Viljoen, Joint FAO/IAEA Centre
	Rafael Mariano GROSSI, Director General IAEA QU Dongyu, Director General FAO Monique ELOIT, Director General OIE
	Welcome Najat Mokhtar, Deputy Director General IAEA
10:30 - 12:30	Keynote Speakers and Panel Discussion
Session 1	Moderator: Gerrit Viljoen, Joint FAO/IAEA Centre
	Andrea Gavinelli European Commission, Belgium
	Ren Wang China National GeneBank, China
	Daniel Bercovici International Feed Industry Federation, Germany
	Franck Berthe World Bank, United States of America
	Norbert Nowotny Joint FAO/IAEA Centre, University of Veterinary Medicine Vienna, Austria
	 Livestock production and productivity Emerging and re-emerging animal diseases Climate change, environment and biodiversity Livestock policy and investments Changes in food habits: societal concerns regarding food of animal origin COVID-19, MERS and SARS
	Live Q&A will be held at the end of the session

MONDAY	28 June 2021, 12:30-15:00
12:30 - 15:00	Molecular Tools for Animal Production and Health
Session 2	Moderator: Charles Lamien, Joint FAO/IAEA Centre
	Disease diagnosis Cameron Stewart Commonwealth Scientific and Industrial Research Organisation, Australia
	Sequencing and whole genome sequencing Alessio Lorusso Istituto Zooprofilattico Sperimentale dell' Abruzzo e del Molise Giuseppe Caporale, Italy
	Vaccine matching and quality control Aldo Dekker Wageningen University & Research, The Netherlands
	Genetic improvement of smallholder dairy cattle for sustainable dairy systems: traditional and genomic approaches John Gibson University of New England, Australia
	Genomic approaches to unravel the genetic basis of productive and adaptive traits in livestock Paolo Ajmone Marsan Universita Cattolica del Sacro Cuore, Italy

MONDAY 28 June 2021. 15:00-17:15 Special Session: Commemoration of the 10th Anniversary of **Rinderpest Eradication and Maintaining Global Freedom** Moderator: Keith Sumption, FAO Welcome 15:00 - 15:05 Maria Helena Semedo, Deputy Director General FAO 15:05 - 15:30 Opening of the 10th anniversary of rinderpest eradication QU Dongyu, Director General FAO Rafael Mariano GROSSI, Director General IAEA Monique ELOIT, Director General OIE Video on eradication efforts and the maintenance of global 15:30 - 15:35 freedom for 10 years 15:35 - 15:50 Post-eradication challenges and achievements Junaidu Maina, FAO-OIE Rinderpest Joint Advisory Committee Samia Metwally, FAO Mariana Marrana, OIE **Panel discussion** 15:50 - 16:35 Moderators: Keith Sumption, FAO - Mark Rweyemamu, former FAO **EMPRES Head** Vaccine, vaccination and herd immunity Henry Wamwayi and Santanu Bandyopadhyay Diagnostics Martyn Jeggo Eradication programme management Peter Roeder and Bill Taylor Lessons learned: global health and challenges Santanu Bandyopadhyay General discussion and addressing questions from the 16:35 - 17:05 floor Moderator: Berhe Tekola, former AGA Director 17:05 - 17:15 **Closing Remarks** Juan Lubroth, former FAO CVO Gerrit Viljoen, Joint FAO/IAEA Centre

Keith Hamilton, OIE

TUESDAY	29 June 2021, 10:00-12:30
10:00 - 12:30	
10:00 - 12:30	Advances in Vaccinology
Session 3	Moderator: Viskam Wijewardana, Joint FAO/IAEA Centre
	Low-energy electron irradiation for the generation of inactivated vaccines Sebastian Ulbert Fraunhofer Institute for Cell Therapy and Immunology, Germany
	Irradiated vaccines Elena Gaidamakova Uniformed Services University of the Health Sciences, United States of America
	Irradiated Hemonchus contortus vaccine in field trials Jayanthe Rajapakse University of Peradeniya, Sri Lanka
	Novel approaches for bacterial vaccines (CCPP) Jörg Jores University of Bern, Switzerland
	Development of mucosal vaccine against Peste-des-Petits Ruminants virus for small ruminants Muhammad Salah Ud Din Shah Nuclear Institute for Agriculture and Biology, Pakistan
	Mucosal immunity in large animals Jean-Pierre Scheerlinck University of Melbourne, Australia

TUESDAY	29 June 2021, 12:30-15:00
12:30 - 15:00	Emergency Preparedness and Response
Session 4	Moderator: Ivancho Naletoski, Joint FAO/IAEA Centre
	Applied biosafety in the field
	Uwe Müller-Doblies Merk Sharp & Dome, Austria
	Neglected or underreported animal health emergencies
	caused by zoonotic arboviruses in Africa
	Martin Groschup
	Friedrich-Loeffler Institut, Germany
	Adaptation of techniques into laboratory networks
	Trevor Shoemaker
	Center for Disease Control and Prevention, United States of America
	The role of national authorities
	Abel Wade
	Laboratoire National Vétérinaire, Cameroon
	Monitoring emerging zoonotic disease threats and
	characterizing behavioral risk in high-risk communities in
	Senegal
	Modou Moustapha Lo
	Institut Sénégalais de Recherches Agricoles, Senegal

WEDNESDAY	30 June 2021, 10:00-12:30
10:00 - 12:30	Zoonotic Diseases, COVID-19 and ZODIAC
Session 5	Moderator: Norbert Nowotny, Joint FAO/IAEA Centre / University of Veterinary Medicine Vienna, Austria
	OIE programme for preventing and controlling zoonotic diseases
	Mariana Marrana World Organisation for Animal Health, France
	Laboratory response for the control of zoonotic outbreaks: the Ebola example
	Jacqueline Weyer National Institute for Communicable Diseases, South Africa
	SARS-CoV2: its origin and the role of animals in the COVID-19 pandemic
	Marion Koopmans Erasmus University Medical Center, The Netherlands
	The role of wildlife in the emergence and spread of zoonotic diseases
	Melinda Rostal EcoHealth Alliance, United States of America
	ZODIAC project Gerrit Viljoen
	Joint FAO/IAEA Centre, Austria

WEDNESDAY	30 June 2021, 12:30-15:00
12:30 - 15:00 Session 6	Enhancing Livestock's Contribution to One Health and the SDGs Moderator: Paul Boettcher, Joint FAO/IAEA Centre
	Antimicrobial Resistance – laboratory, surveillance and research in the FAO Action Plan (2021-2025) Francesca Latronico, FAO
	Emergency management centre for animal health Frédéric Poudevigne, FAO
	Preparing laboratory services for major emergencies - laboratory contingency plans and simulation exercises: what can be done even in a virtual world Pam Hullinger, FAO
	Preparing laboratory services for major emergencies - diagnostic reagent banks: example of Balkans Kiril Krstevski, FAO
	Connecting animal movements and other risks to optimise surveillance in West Africa Baba Soumaré, FAO
	The role of the livestock master plan in the development of the livestock sector Clarisse Ingabire, FAO
	Health hazards in animal feed Gijs Kleter Wageningen University & Research, The Netherlands

THURSDAY	1 July 2021, 10:00-12:30
10:00 - 12:30	Challenges for Better Livestock Production in the
Session 7	Developing World
	Moderator: Mario Garcia, Joint FAO/IAEA Centre
	Changing livestock sector: Can research and new technology contribute to agri-food system innovation? Jeroen Dijkman Wageningen University & Research,The Netherlands
	Transformation strategies to improve the water productivity in agriculture in semi-arid regions Simone Kraatz Hochschule Anhalt, Germany
	Adopting reproductive biotechnologies for animal
	breeding: issues in developing countries
	Joao Henrique Moreira Viana
	Brazilian Agricultural Research Corporation, Brazil
	Domestic animal biodiversity loss: potential risks for
	global food security
	Mary Mbole-Kariuki
	African Union, Inter-African Bureau for Animal Resources, Kenya
	Livestock resilience to emerging diseases and climate change: a game changer to building back better food systems post-COVID-19 Mohammed Shamsuddin FAO, Italy

THURSDAY	1 July 2021, 12:30-15:00
12:30 - 15:00	Advances in Biotechnologies for Improving
Session 8	Livestock Breeding and Feeding Moderator: Bharani Settypalli, Joint FAO/IAEA Centre
	Using genetics to combat climate change and improve heat tolerance in dairy cows Jennie Pryce Agriculture Victoria and La Trobe University, Australia
	Understanding endometrial function for fertility, food and health Niamh Forde
	University of Leeds, United Kingdom Artificial breeding in practice for sheep and goat: the
	Sardinian example for the developing world Maria Dattena Agenzia Regionale per la Ricerca in Agricoltura, Italy
	Measuring feed intake under grazing and browsing conditions: an achievable task?
	Robert Mayes James Hutton Institute, United Kingdom

FRIDAY	2 July 2021, 11:00-14:00
11:00 - 13:30 Session 9	Application of Improved Technologies for Sustainable Livestock Productivity: The Way Forward
	Moderator: Victor Tsuma, Joint FAO/IAEA Centre
	European Union actions for a sustainable and innovative animal nutrition sector Wolfgang Trunk European Commission, Belgium
	Application of nuclear and genomic technologies for improving livestock productivity in the developing world: challenges and opportunities
	Raphael Mrode International Livestock Research Institute, Kenya
	Strengthening breeding stock: strategies for implementing advanced embryo production technologies Joao Henrique Moreira Viana Brazilian Agricultural Research Corporation, Brazil
	Precision livestock farming and beyond Tami Brown-Brandl University of Nebraska–Lincoln, United States of America
13:30 - 14:00	Closing Ceremony Moderator: Gerrit Viljoen, Joint FAO/IAEA Centre
	Maria Helena Semedo, Deputy Director General FAO

Liang Qu, Director Joint FAO/IAEA Centre