INTERNATIONAL SYMPOSIUM ON SUSTAINABLE ANIMAL PRODUCTION AND HEALTH

CURRENT STATUS AND WAY FORWARD





28 JUNE - 2 JULY 2021 10:00 - 15:00 CET

VIRTUAL EVENT

SUSTAINABLE ANIMAL PRODUCTION AND HEALTH

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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

Session 1

Keynote Speakers and Panel Discussion

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

SUSTAINABLE ANIMAL PRODUCTION AND HEALTH

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MONDAY

28 June 2021, 12:30-15:00

12:30 - 15:00

Session 2

Molecular Tools for Animal Production and Health

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

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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

15:00 - 15:05	Welcome 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
15:30 - 15:35	Video on eradication efforts and the maintenance of global 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
15:50 - 16:35	Panel discussion Mark Rweyemamu, former FAO EMPRES Head Keith Sumption, FAO - Vaccines and vaccination - Diagnostic service - Herd immunity and management - Lessons learned: global health and challenges
16:35 - 17:05	FAO-AGA retired "ancien combatants" and experiences sharing Samuel Jutzi, former AGA Director
17:05 - 17:15	Closing Remarks IAEA, OIE and FAO

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TUESDAY

29 June 2021, 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

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29 June 2021, 12:30-15:00

12:30 - 15:00

Session 4

Emergency Preparedness and Response

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

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WEDNESDAY

30 June 2021, 10:00-12:30

10:00 - 12:30

Session 5

Zoonotic Diseases, COVID-19 and ZODIAC

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 case

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

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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

AMR: what is the direction in the next 5 years for vet laboratory surveillance for AMR?

Francesca Latronico, FAO

Managing intentional and accidental release of biothreat agents: improving coordination of investigations and response

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: the Balkans as an example Kiril Krstevski, FAO

Connecting animal movements and other risks to optimise surveillance: example from West Africa Baba Soumare and Ismaila Seck. FAO

The role of the livestock master plan in the development of the livestock sector

Clarisse Ingabire, FAO

Health hazards in animal feeds

Gijs Kleter

Wageningen University & Research, The Netherlands

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THURSDAY

1 July 2021, 10:00-12:30

10:00 - 12:30

Session 7

Challenges for Better Livestock Production in the Developing World

Moderator: Mario Garcia, Joint FAO/IAEA Centre

Evolving livestock sector: innovative technologies and their application in the developing world

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

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THURSDAY

1 July 2021, 12:30-15:00

12:30 - 15:00

Session 8

Advances in Biotechnologies for Improving Livestock Breeding and Feeding

Moderator: Bharani Settypalli, Joint FAO/IAEA Centre

Genomic revolution in livestock: advances in animal breeding technologies for increased livestock productivity and sustainability

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

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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

Transformation strategies to improve water productivity in agriculture in semi-arid regions

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