



## International Symposium on SUSTAINABLE ANIMAL PRODUCTION AND HEALTH Current Status and Way Forward”

28 June to 2 July 2021

### Provisional Programme

#### DAY 1 (Monday, 28 June 2021)

10:00 – 10:30

**Opening remarks**

10:30 – 11:10

**Keynote speaker:**

- Livestock, food security and one health

11:10 – 12:30

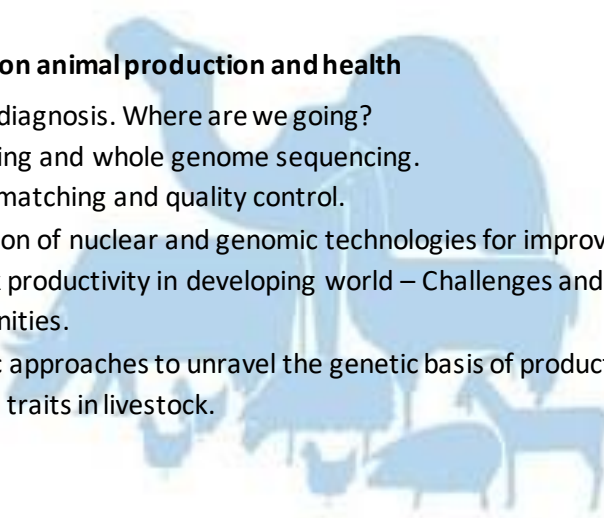
**Expert Panel Discussion:**

- 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

12:30 – 15:00

**Molecular tools on animal production and health**

- Disease diagnosis. Where are we going?
- Sequencing and whole genome sequencing.
- Vaccine matching and quality control.
- Application of nuclear and genomic technologies for improving livestock productivity in developing world – Challenges and Opportunities.
- Genomic approaches to unravel the genetic basis of productive and adaptive traits in livestock.



## DAY 2 (Tuesday, 29 June 2021)

10:00 – 12:30

### Advances in vaccinology

- Novel vaccines. Case study.
- Irradiated vaccines: different approaches and the benefits of e-beam.
- Novel technologies for viral vaccines (PPR).
- Novel approaches for bacterial vaccines (CCPP).
- Irradiated *hemonchus contortus* vaccine in field trial.
- New approaches to quality control of vaccines.

12:30 – 15:00

### Emergency preparedness and response

- Review of the reasons for animal health emergencies.
- Applied biosafety in the field.
- Adaptation of techniques into laboratory networks.
- The role of national authorities.
- One Health. Multisectoral approach to monkeypox epidemics in Central African Republic.
- Standardize workflow for response (preparedness and responses).

## DAY 3 (Tuesday, 29 June 2021)

09:00 – 12:30

### Zoonotic diseases and COVID 19

- OIE programme for preventing and controlling zoonotic diseases.
- Laboratory response for the control of zoonotic outbreaks. The Ebola case.
- SARS-CoV2. Its origin and the role of animals in COVID 19 pandemic.
- The role of wildlife in the emerge and spread of zoonotic diseases.

14:00 – 17:30

### Transboundary Animal Disease Threats

- Global threats to food security: The rinderpest and PPR examples.
- Harmonised regional response action frameworks.
- Mitigation of emerging and re-emerging animal and zoonotic diseases.
- Progressive control pathways (PCPs) for major TADs, high-impact and neglected diseases.
- Antimicrobial use and antimicrobial resistance.
- Capacity development for health systems.
- FAO's tools to improve sustainability in livestock production in the developing world.

## DAY 4 (Thursday, 1 July 2021)

10:00 – 12:30

### Challenges for better livestock production in developing world

- Evolving livestock sector: Innovative technologies and their application in developing world.
- Food versus Feed: Opportunities and challenges in sustainable livestock production.
- Adopting reproductive biotechnologies for animal breeding: Issues in developing countries.
- Domestic animal biodiversity loss: potential risks for global food security.

12:30 – 15:00

### Advances in biotechnologies for improving livestock breeding and feeding

- Genomic revolution in livestock: Advances in animal breeding technologies for increased livestock productivity.
- Novel biomarkers for early pregnancy diagnosis in cattle: Potential role of nuclear and molecular technologies.
- Artificial breeding in practice for sheep and goat: The Sardinian example for the developing world.
- Measuring feed intake under grazing and browsing conditions. An achievable task?

## DAY 5 (Friday, 2 July 2021)

11:00 – 13:30

### Application of Improved Technologies for Sustainable Livestock Productivity: The Way Forward

- European Union actions for a sustainable and innovative animal nutrition sector.
- Application of nuclear and genomic technologies for improving livestock productivity in developing world: Challenges and opportunities.
- Strengthening breeding stock: Strategies for implementing advance embryo production technologies.
- Precision Livestock Farming: Potential game changer for the livestock sector

13:30 – 14:00

### Closing ceremony

