



# EAAP

European Federation of Animal Science

## Preliminary Programme

### EAAP annual meeting, 1-4 December 2020

*The timing of the sessions will be decided later. All sessions must be confirmed.*

**Plenary session:** “Responsibility of animal production on climate change” (confirmed speakers: Umberto Bernabucci - Università della Tuscia, Italy; Georg Kaser - University of Innsbruck, Austria; Frank Mitloehner - UC Davies, USA).

#### Genetics

- Governance of the genetic resources. (G; WG/C)
- Joint EAAP/ADSA/Interbull session: Breeding and genetics – ten years of genomic selection. (G; I)
- Genetic diversity. (G; B)
- Can you have your cake and eat it too – tools to get the most out of animal resilience and efficiency. (G; P)
- Breeding for improved animal health and welfare. (H+W/G; T)
- Long-term selection and limits. (G; T)
- FABRE-TP. Climate change: How Animal Breeding faces the challenge for more climate-smart EU food systems? (G; P)
- Breeding programmes. (G; B)
- Breeding, climate and sustainability. (G; T)
- Genomic evaluation. (G; B)
- Genetics free communications. (G; B)

#### Health and Welfare

- Understanding and combatting antimicrobials and anthelmintics resistance. (H+W; T)
- Breeding for improved animal health and welfare. (H+W/G; T) (2 sessions)
- Climate change impact on livestock health and welfare. (H+W; T)
- Modulating gut function and microbiome for resilient livestock production. (P/H+W; T)
- Applied animal behaviour. (H+W; B)
- Impact of different farming practices on animal health and welfare. (H+W; B)

#### EUROPEAN FEDERATION OF ANIMAL SCIENCE (EAAP)

• FEDERATION EUROPEENNE DE ZOOTECHNIE (FEZ) • EUROPEISCHE VEREINIGUNG FÜR TIERPRODUKTION (EVT) •

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### **Nutrition**

- Smart Nutrition – the role of nutrition in the circular economy: improving the use of feed not competitive with human nutrition. (N; T)
- Feed production facing climate change (new feeds, alternative fibre sources). (N; T)
- New technological challenges (including nanotechnology) facing future feeding industry – how to value? (N; T)
- Neonatal nutrition/ early life programming. (N; T)
- EAAP/ADSA session: Dietary methyl donor supplementation in dairy ruminants. (N/ADSA; T)

### **Physiology**

- Omics in animal nutrition and physiology (The European Joint Doctorate Program Molecular Animal Nutrition “MANNA”). (Ph; P)
- Efficiency of energy metabolism. (Ph/C/ MITOcow; P)
- Recent advances in livestock physiology: cellular, organoid and whole-organism studies. (Ph; D)

### **Livestock Farming Systems (LFS)**

- 'Net zero-carbon' - how is it possible in livestock farming systems? (LFS; D)
- Sustainable land use for healthy humans and a healthy planet. (LFS; T)
- Combining the diversity of resources and farming practices to ensure resilience at different scales. (LFS; T)
- Innovative farm systems to meet societal demand. (LFS/EC; EC)
- Livestock Farming Systems free communications. (LFS; B)

### **Cattle**

- Young Train: Innovative research and extension in cattle. (C; EC)
- Integration of beef and dairy production. (C; T)
- Responsiveness of the dairy cattle industry to social needs. (C; T)
- Physiological basis of PLF technologies to infer on animal health, welfare and production efficiency in cattle. (C; T)
- Efficiency of energy metabolism. (Ph/C/ MITOcow; P)
- Future of housing for dairy cattle. (C/ADSA; D)
- Combating the increasingly negative consumer opinion on livestock's contribution to climate change. (C; T)
- Lameness and metabolic aspects in cattle. (C; T)
- Collaborative international research related to beef quality. (C; I)
- Dairy4Future project. (C; P)
- Free communications. (C; B)

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### Horse

- Genetic evaluations and breeding programs in horses and their development. (H; I)
- New perspectives and approaches in equidae production. (H; D)
- Horse registration, legal status of horses and its consequences. (H; C)

### Pig

- Early career competition: stressing innovation in pig production. (P; EC)
- Energy and protein efficiency in pigs, from conception to slaughter. (P; T)
- Modulating gut function and microbiome for resilient livestock production. (P/H+W; T)
- Pig, poultry and rabbit husbandry for improved product quality. (P; B)
- Mineral and vitamin nutrition in pigs and poultry. (P; T)

### Sheep and Goats

- Key pre-partum factors associated with better lamb and kid survival (including stillbirth and late abortion). (S+G; D)
- New market demands for animal fibre: sustainability and animal welfare. (S+G; WG/C)
- Dairy sheep and goat systems: new research in genes, nutrition and management. (S+G; T)
- SMARTER: small ruminants breeding for efficiency and resilience. (S+G; P)
- Resilient sheep and goats: breeding & management strategies to overcome disease and environmental challenges. (S+G; T)
- Sheep and Goats free communications. (S+G; B)

### Insects

- Insect production: techniques, substrates and health issues. (I; T)
- Insect welfare: is it an issue? (I; C)
- Insects as feed and health effects for livestock. (I; T)
- Standardization of methods, parameters and terminology in insect research and socio-economic impact. (I; WG)
- Insect genetics: opportunities and challenges. (I; T)

### Precision Livestock Farming (PLF)

- Fitting PLF to species and animal size, possibilities for sheep, goats, poultry, horses, pigs and 'exotic' animals. (PLF; T)
- Data-based PLF solutions for the cattle sector: opportunities, challenges and pitfalls. (PLF; T)
- PLF for saving feed. (PLF; T)
- Opportunities and risks in animal management applying AI, big data, data science tools, API economy and digital agriculture. (PLF; T)

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- Impact of PLF and sensors on phenotyping, animal breeding, animal selection and animal genetics. (PLF; T)
- PLF as a tailor-made way to care individuals within groups. (PLF; T)
- PLF and sensing animal health, welfare, physiological measures and behaviour of animals. (PLF; T)

### Other sessions

- ATF Session. What livestock has to offer to biodiversity & healthy soils. (ATF; P)
- Aquaculture WG session. (EAAP; WG)
- Young Scientist Session: Jobs of the future. (EC; C)

### Abbreviations:

Cattle (C), Genetics (G), Health and Welfare (H+W), Horse (H), Insect (I), Livestock Farming Systems (LFS), Nutrition (N), Pig (P), Physiology (Ph), Precision Livestock Farming (PLF), Sheep and Goat (S+G), Animal Task Force (ATF);

Theme Sessions (T), Industry sessions (I), Bottom-Up (B), Discovery Sessions (D), Challenge Sessions (C), Early-career scientist's Sessions (EC), Project session (P), Working Group sessions (WG)

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