



8:00 *Registration & Welcome*

8:30 **Session 1 - From Lab to Legitimacy: Social Acceptance of New Breeding Technologies**

- Beyond 'experts only': on the importance of stakeholder and public engagement in the debate on innovations in breeding, Franck Meijboom (UU)
- Make it make sense!: From citizen engagement to useful guidance, Rasmus Mikkelsen (DemoX)
- Invited speakers & Panel discussion

10:00 *Coffee break*

10:30 **Session 2 - Editing for Resilience and Welfare: Scientific Readiness and Policy Implications & Panel discussion**

- Gene-Edited SLICK Sheep: A Case Study in Climate-Resilient Breeding, Simon Lillico (UEDIN)
- Epigenome editing in animal production: A prospective review, Guillaume Devailly (INRAE)
- The management of rare alleles, including GE, in breeding schemes, Theo Meuwissen (NMBU)
- Dual-purpose lines simulation of genomic edition, Edward Chuang (GABI)

12:30 *Lunch break*

13:30 **Session 3 - Epigenetics: A new lever to Resilience and Efficiency?**

- The RUMIGEN EpiChip, a sensor of environment and breeding practices, Gabriel Costa Monteiro Moreira (INRAE)
- Epigenetic dynamics in chicken brain throughout animal life, Carlos Guerrero Bosagna
- The sperm epigenome: role in male fertility, transmission, and impact on offspring phenotype, H el ene Kiefer (INRAE)
- Molecular fingerprints of pig male reproduction from omics data, Pedro Sa (WUR)
- Integration of GERONIMO omics data to reveal details about the genetic architecture behind efficiency-related traits, Peter Karlskov-Mortensen (UCPH)
- The RUMIGEN EpiChip: integration of epigenetics into dairy cow selection, Marie-Pierre Sanchez (INRAE)
- Tagging non-genetic inheritance using the transmissibility models, Ingrid David (INRAE)



15:30 *Coffee break*

16:00 **Session 4 – Next-Generation Selection: Integrating Genomics, Epigenetics and Adaptability**

- Selection, genetic load and diversity, Theo Meuwissen (NMBU)
- Trade-offs - evolution and use in breeding strategies, Mario Calus (WU)
- Including methylation in genomic prediction, Ioanna Vourlaki (IRTA) & Levi Ayres (WUR)
- Selection strategies for heat-stress tolerance, Sophie Mattalia (IDELE)
- Perspectives on the use of the EpiChip for breeding and animal husbandry purposes, Oscar Gonzales-Recio (UEDIN)
- Strategies to maintain and improve local and small breeds, Marie-José Mercat (IFIP)

17:30 **Turning Research into Practice and What's Next?**
Panel discussion

18:30 **Closing**