Genotype-to-phenotype research across Europe & beyond

Welcome and “EuroFAANG – An infrastructure for farmed animal genotype to phenotype research in Europe and beyond” – Emily Clark (UEDIN) / Christa Kühn (FBN)

The GENE-SWitCH project
- GENE-SWitCH: improving the functional annotation of pig and chicken genomes for precision breeding – Elisabetta Giuffra (INRAE)
- Genome-wide association studies for body weight in broilers using sequencing and SNP chip data Andreas Kranis (Aviagen Ltd.) / Eirini Tarsani (UEDIN)
- Using methylation annotation to improve genomic prediction of gene expression in pigs – Bruno Perez (Hendrix Genetics)

The BovReg project
- The path from functional annotation towards improved genomic prediction in cattle – Christa Kühn (FBN)
- Biology-driven genomic predictions for dry matter intake within and across breeds using WGS data by Birgit Grendler Grandl (WUR)
- Newly annotated genomic features for biology-driven genome selection: the BovReg contribution – Gabriel Costa Moreira (ULiège)

Coffee break

The AQUA-FAANG project
- AQUA-FAANG: decoding genome function to enhance genotype-to-phenotype prediction in farmed finfish – Daniel Macqueen (UEDIN)
- Integrating functional annotation data in genomic prediction of VNN resistance in European sea bass – Sara Faggion (UNIPD)

The GEroNIMO project
- Genome and Epigenome eNabled breeding in MOnogastrics – Sandrine Lagarrigue (INRAE)

The RUMIGEN project
- New breeding tools in a context of climate change – Sophie Mattalia (IDELE)

The HoloRuminant project
- The genetic basis of ruminant microbiomes – Yuliaxis Ramayo-Caldas (IRTA)

Panel discussion “How European animal breeding sector can use EuroFAANG Research Infrastructure and knowledge developed so far” Opportunities and barriers for uptaking the results chaired by Emily Clark & Christa Kühn

Invited panelists:
- Abe Huisman, Hypor
- Romain Morvezen, SYSAAF
- Olivier Demeure, Groupe Grimaud
- Clotilde Patry, Valogene

Wrap-up Emily Clark & Christa Kühn