



## Pig Genetics and Genomics

**Organised by a Standing Committee:** YES NO

### Meeting information

Date: 25/07/2025

Time: 08:00-11:50

Number of participants: 70

### Chair

Name: Andreia J. Amaral

Affiliation: University of Évora

Contact email: andreia.fonseca@uevora.pt

### Co-Chair (optional)

Name: Peter Karlskov-Mortensen

Affiliation: University of Copenhagen

Contact email: pkm@sund.ku.dk

## **Agenda**

**8:00 IFAM: Improving genomic prediction accuracy of complex traits by integrating massive types of functional annotation information.**

**8:15 Genetic parameters and genomic investigation of nitrogen use efficiency and its relationship with performance traits in Swiss Large White pigs under a protein-restricted diet**

**8:30 A comprehensive graph-based pangenome of Large White Pigs.**

**8:45 High-throughput GWAS for more than 250,000 metabolomic features provides novel insights on the genetic mechanisms influencing pig metabolism.**

**9:00 ISAG Bursary Award: Genomic prediction of feed efficiency in boars by deep learning**

**9:15 Development of haplotype maps for a Korean Native Pig Composite breed, Woori-heukdon, using Whole Genome Sequences.**

**9:30 Recombination suppression and natural selection against female heterozygotes drive the faster-X evolution in pigs.**

**9:45 Single-cell multiome analysis of the pig testicle and identification of DNA variants linked to genomic activity and spermatid survival.**

**10:00 Coffee Break.**

**10:20 Genome-wide association studies for residual feed intake and feed conversion ratio in Canadian pigs.**

**10:35 Incorporating genomic and transcriptomic effects in linear and structural models for predicting complex traits in pigs**

**10:50 Genome-wide characterization of population structure, genetic diversity, and inbreeding in Korean native pigs**

**11:05 Number of teats in pigs are affected by non-additive variants**

**11:20 Tissue-specific responses to dietary lipid levels in pigs revealed by gene co-expression analysis.**

11:35 **Business Meeting.**

11:50 **Close Meeting**

### **Summary of the meeting**

Including votes, decisions taken and plans for future conferences

During the business meeting new members were elected for the committee namely: **Simara Fanalli** ([simarafanalli@usp.br](mailto:simarafanalli@usp.br); University of S. Paulo), **Claudia Kasper** ([claudia.kasper-voelkl@agroscope.admin.ch](mailto:claudia.kasper-voelkl@agroscope.admin.ch); Agroscope), **Luca Fontanesi** ([luca.fontanesi@unibo.it](mailto:luca.fontanesi@unibo.it); University of Bologna), and **Hee-Bok Park** ([heebokpark@kongju.ac.kr](mailto:heebokpark@kongju.ac.kr); Kongju National University)

### **New Committee chair**

Chair: Peter Karlskov-Mortensen

Term of service (*add years of first and second term of service*): 2023-2027 & 2027-2031

Affiliation: University of Copenhagen, Denmark

E-mail address: [pkm@sund.ku.dk](mailto:pkm@sund.ku.dk)

### **New Committee co-chair (optional)**

Chair: Claudia Kasper

Term of service (*add years of first and second term of service*): 2027-2031

Affiliation: Agroscope Location Posieux, Posieux, Switzerland

E-mail address: [claudia.kasper@agroscope.admin.ch](mailto:claudia.kasper@agroscope.admin.ch)

*Note: One term runs for two bi-annual conferences (i.e. four years)*

**New Committee members:** Simara Fanalli ([simarafanalli@usp.br](mailto:simarafanalli@usp.br); University of S. Paulo, Brazil) and Claudia Kasper ([claudia.kasper-voelkl@agroscope.admin.ch](mailto:claudia.kasper-voelkl@agroscope.admin.ch); Agroscope, Switzerland)

Luca Fontanesi (luca.fontanesi@unibo.it; University of Bologna), and Hee-Bok Park (heebokpark@kongju.ac.kr; Kongju National University)

| Other committee members  | First term of service (from year to year) | Second term of service (from year to year) | Email address                                                          |
|--------------------------|-------------------------------------------|--------------------------------------------|------------------------------------------------------------------------|
| Alex Clop                | 2023-2027                                 |                                            | <a href="mailto:alex.clop@cragenomica.es">alex.clop@cragenomica.es</a> |
| Peter Karlskov-Mortensen | 2023-2027                                 |                                            | <a href="mailto:pkm@sund.ku.dk">pkm@sund.ku.dk</a>                     |
| Shuhong Zhao             | 2019-2023                                 | 2023-2027                                  | <a href="mailto:shzhao@mail.hzau.edu.cn">shzhao@mail.hzau.edu.cn</a>   |
| Yaofeng Zhao             | 2019-2023                                 | 2023-2027                                  | <a href="mailto:yaofengzhao@cau.edu.cn">yaofengzhao@cau.edu.cn</a>     |

### Comments (issues rising)

One speaker was missing. The Poster was during the poster session, although it was not possible for the chair to have a conversation and confirm the presence during the workshop. For next year it is advisable to send an email to enquire regarding attendance for better planning of the time slot. Nevertheless, the time was used for further discussion regarding previous presentations. Another issue was because one of the presenters was not even a co-author of the work. The presenter demanded that no questions would be posed. This is not suitable for the spirit of the conference and workshop. Therefore, as a suggestion for next meeting, the organising committee could state that only co-authors of the work may present it. The fact that the workshop was scheduled to the last day of the conference the number of attendants was reduced in comparison with previous years. Given that some members of the committee were not present during the conference the election of the chair and co-chair was performed during a zoom meeting (20/10/2025). All members except for Alex Clop, Luca Fontanesi and Hee-Bok Park participated. Chair and co-chair were elected with everyone's agreement.

### SIGNATURE

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Chair