EAAP 2017 – Session 07

- **Genetic defects in Cattle**
  - **Identification,**
  - **Finding the mutation, and**
  - **Managing it in breeding plans**

Before Coffee break

- **14:00** Implications of mosaicism for deleterious de novo mutations in artificial insemination bulls. **Hubert Pausch**, C. Wurmser, S. Ammermueller, D. Segelke, A. Capitan and R. Fries

- **14:15** Genotype prediction for a structural variant in Brown Swiss cattle using Illumina Beadchip data. **Franz R. Seefried**, P. Von Rohr and C. Drögemüller

- **14:30** Chasing deleterious recessives in Italian Holstein dairy cattle. **Paolo Ajmone Marsan**, M. Milanesi, S. Capomaccio, L. Colli, S. Bi!ani, J.T. Van Kaam, R. Finocchiaro, R. Negrini, C.J. Rubin, A. Nardone, N.P.P. Maciotta and J.L. Williams

- **14:45** Reverse genetics to describe a recessive defect in di!erent breeds. **Cecile Grohs**, P. Michot, S. Chahory, M.C. Deloche, S. Barbey, M. Boussaha, C. Danchin-Burge, S. Fritz, D. Boichard and A.Capitan

- **15:00** Identi"cation and management of recessive genetic defects in Belgian Blue beef cattle. **Tom Druet**, A. Sartelet, X. Hubin, N. Tamma, M. Georges and C. Charlier

- **15:15** invited: A review of bioinformatic methods to locate a new recessive mutation on the genome. **Geoff E. Pollott**

After Coffee break

- **16:15** Managing lethal alleles using genomic optimum contribution selection. **L. Hjortø**, J.R. Thomasen, P. Berg, M. Kargo, M. Henryon, H. Liu and A.C. Sørensen

- **16:30** Using a MQTL matrix to test for pleiotropic e!ects of Mendelian trait loci on quantitative traits. **Carsten Scheper** and S. König.

- **16:45** Bovine genetic disease and trait frequencies in Ireland: >85 causative alleles in >1M animals. **Matthew C. McClure**, P. Flynn, R. Weld, T. Pabiou, M. Mullen, J.F. Kearney and J. McClure

- **17:00** invited: Management of Mendelian traits in breeding programs by gene editing. **John B. Cole**

- **17:30** International registration and management of genetic defects: general discussion. **Hossein Jorjani**

General Discussion

- How are the genetic defects reported?
  - OMIA?, …
  - National legislation?
- How are the genetic defects registered?
  - Breed societies? Genetic evaluation centers?
- How are the genetic defects managed in the breeding programs?
- How important is it to have international registration?