

Strategic Research Center

GenSAP

Genomic Selection in Animals and Plants



Opening Symposium

June 13-14 2013

Aarhus & Foulum, Denmark



Thursday June 13th, Aarhus

9:30 Registration

10:00 Welcome & introduction to GenSAP

Center Director Mogens Sandø Lund, Center for Quantitative Genetics & Genomics (QGG), Aarhus University (AU)

10:15 *Session 1 (chaired by Peter Sørensen):*

Understanding the genetic basis of complex traits

Senior Researcher Peter Sørensen, QGG, AU

Charting the genotype-phenotype map: Lessons from *Drosophila*

Professor Trudy Mackay, Dept. of Genetics, North Carolina State University, USA

11:15 *Coffee break*

Genome-wide association studies – lessons learned and future directions

Senior Researcher Goutam Sahana, QGG, AU

GxE and epigenetics in plants

Senior Researcher Torben Asp, Dept. of Molecular Biology & Genetics, AU

Connecting biological pathways and the genomics of complex traits

PhD Student Stefan McKinnon Høj-Edwards, QGG, AU

12:45 *Lunch*

13:45 *Session 2 (chaired by Luc Janss):*

Genomic prediction models: towards use of full sequence and large populations

Senior Researcher Luc Janss, QGG, AU

The 1000 bull genomes project - reconstructing the past genetic history of cattle, and accelerating future gains

Research Leader Ben Hayes, Dept. of Primary Industries, Victoria, Australia

14:45 Coffee break

Genomic selection using QTL information

Senior Scientist Didier Boichard, INRA, France



Visions and perspectives for genomic prediction in animals, plants and humans
Professor Daniel Gianola, University of Wisconsin-Madison, USA

The benefits of haplotypes as predictors of genetic merit
PhD Student Beatriz Castro Dias Cuyabano, QGG, AU

16:15 *Poster session & reception*

17:30 *Bus to Viborg*

19:00 *Dinner at Golf Salonen, Viborg*

Friday June 14th, Foulum

9:00 *Welcome*
Center Director Mogens Sandø Lund, QGG, AU

9:10 *Session 3 (chaired by Christian Sørensen):*

Assessment and optimization tools in genomic breeding programs
Senior Researcher Christian Sørensen, QGG, AU

Genomic selection and the design of breeding schemes
Professor Theo Meuwissen, University of Life Sciences, Norway

10:10 *Coffee break*

On the doorsteps of a new era in plant breeding
Senior Scientist Christian Sig Jensen, DLF Trifolium

Making a world-class pig-breeding program even better with genomic selection
Chief Geneticist Mark Henryon, Danish Pig Research Center

Medium to long-term effects of selection in finite locus models with non-additive effects
EGS-ABG PhD Student Hadi Esfandyari, Wageningen University/QGG, AU

11:45 *General assembly meeting – lunch meeting for GenSAP partners*

12:30 *Lunch*

13:30 *PhD defense:*
Genomic predictions using combined populations and SNP marker panels
PhD Candidate Rasmus Froberg Brøndum, QGG, AU