



ISAG

CONFERENCE 2017, Dublin, Ireland

Ruminant Genetics and Genomics

Organised by a standing committee yes

Date and meeting time: Tuesday, July 18, 9:00 AM - 1:00 PM

Chair, name and contact email: Laercio Porto-Neto (laercio.portoneto@csiro.au)

Number of participants at meeting: 100 - 120

Workshop program

9:00 AM 71575 **Evidence from the bovine of major differences between individuals in the rate of de novo single nucleotide mutation and transposon mobilization in the germ-line.**

Chad Harland^{1,2}, Keith Durkin¹, Maria Artesi¹, Latifa Karim^{1,3}, Nadine Cambisano^{1,3}, Manon Deckers^{1,3}, Nico Tamma^{1,3}, Erik Mullaart⁴, Wouter Coppieters^{1,3}, Michel Georges¹, and Carole Charlier*¹, ¹*Unit of Animal Genomics, GIGA-R, University of Liège, Liège, Belgium*, ²*Livestock Improvement Corporation, Research & Development, Hamilton, New Zealand*, ³*GIGA-Genomics Platform, University of Liège, Liège, Belgium*, ⁴*CRV, Research & Development, Arnhem, Netherlands*.

9:15 AM 70061 **Pinpointing causal mutations among imputed sequence variant genotypes in three cattle breeds.**

H Pausch*^{1,2}, IM MacLeod¹, PJ Bowman^{1,3}, R Emmerling⁴, R Fries⁵, B Gredler-Grandl⁶, HD Daetwyler^{1,3}, and ME Goddard^{1,7}, ¹*Agriculture Victoria, AgriBio, Centre for AgriBioscience, Bundoora, VIC 3083, Australia*, ²*Animal Genomics, Institute of Agricultural Sciences, ETH Zurich, 8092 Zurich, Switzerland*, ³*School of Applied Systems Biology, La Trobe University, Bundoora, VIC 3083, Australia*, ⁴*Institute of Animal Breeding, Bavarian State Research Centre for Agriculture, 85586, Poing-Grub, Germany*, ⁵*Chair of Animal Breeding, Technische Universitaet Muenchen, 85354 Freising, Germany*, ⁶*Qualitas AG, 6300 Zug, Switzerland*, ⁷*Faculty of Veterinary and Agricultural Science, University of Melbourne, Melbourne, VIC 3010, Australia*.

9:30 AM **Invited Workshop Speaker: Cytoplasmic inheritance on farm animals and biotechnologies for selection.**

Flavio V. Meirelles, University of Sao Paulo.

10:00 AM	71412	Genotyping by sequencing for genomic selection in dairy goats (<i>Capra hircus</i>). S Clarke* ¹ , K Dodds ¹ , R Brauning ¹ , T Van Stijn ¹ , R Anderson ¹ , M Wheeler ² , B Foote ³ , A Cameron ⁴ , and J McEwan ¹ , ¹ AgResearch, Mosgiel, Dunedin, New Zealand, ² AgResearch, Ruakura, Hamilton, New Zealand, ³ Foote Dairy, Hikurangi, Northland, New Zealand, ⁴ Meredith Dairy, Meredith, Victoria, Australia.
10:15 AM	70657	Identification of polymorphisms modifying gene expression regulation in cattle. G Guillocheau* and D Rocha, <i>I. GABI, INRA, AgroParisTech, Université Paris Saclay, 78350 Jouy-en-Josas, France.</i>
10:30 AM	71519	GWAS for response to vaccination in angus calves. LM Kramer* ¹ , MS Mayes ¹ , JL Williams ¹ , ER Fritz-Waters ¹ , ED Downey ² , RG Tait Jr. ³ , AR Woolums ⁴ , CCL Chase ⁵ , JF Ridpath ⁶ , and JM Reecy ¹ , ¹ Iowa State University, Ames, Iowa, USA, ² Elanco Animal Health, Larchwood, Iowa, USA, ³ Neogen GeneSeek Operations, Lincoln, Nebraska, USA, ⁴ Mississippi State University, Mississippi State, Mississippi, USA, ⁵ South Dakota State University, Brookings, South Dakota, USA, ⁶ Ridpath Consulting, Gilbert, Iowa, USA.
10:45 AM	71598	The water buffalo gene expression atlas. R Young* ¹ , L Lefevre ¹ , S Bush ¹ , J Williams ² , S Gokhale ³ , S Kumar ⁴ , A Archibald ¹ , and D Hume ¹ , ¹ The Roslin Institute and Royal (Dick) School of Veterinary Studies (RDSVS), Easter Bush, Midlothian, UK, ² School of Animal and Veterinary Sciences, The University of Adelaide, Adelaide, South Australia, Australia, ³ BAIF Development Research Foundation, Central Research Station, Pune, Maharashtra, India, ⁴ Centre for Cellular and Molecular Biology, Hyderabad, Telangana, India.
11:00 AM		Coffee/Tea Break.
11:30 AM	71686	Origin and evolutionary history of the European bison unraveled through ancient DNA. T. Grange*, D. Massilani, S. Guimaraes, and E.-M. Giegl, <i>Institut Jacques Monod, CNRS, University Paris Diderot, Paris, France.</i>
11:45 AM	70543	Signals of adaptive introgression between European taurine and indicine cattle revealed by local ancestry inference. M Barbato* ¹ , M Del Corvo ¹ , T Sonstegard ² , and P Ajmone-Marsan ¹ , ¹ Istituto di Zootechnica, Università Cattolica del Sacro Cuore, Piacenza, Italy, ² Recombinetics Inc., St. Paul, Minnesota, USA.
12:00 PM	71650	Cattle on the Western Atlantic edge of Europe: a time series of ancient cattle genomes through Ireland and Britain. VE Mullin*, <i>Trinity College Dublin, Dublin, Ireland.</i>
12:15 PM	71610	Whole Genome Structural Analysis of Caribbean Hair Sheep reveals quantitative link to West African Ancestry.

Gordon Spangler*¹, Benjamin Rosen¹, Olivier Hanotte², Tad Sonstegard³, and Curtis Van Tassell¹, ¹USDA/ARS/AGIL, Beltsville, MD, USA, ²U of Nottingham/School of Life Sciences, Nottingham, UK, ³Acceligen of Recombinetics, St Paul, MN.

12:30 PM 71410 **A worldwide investigation of the effects of climate selection on goat genomes.**

Francesca Bertolini*¹, Estelle Rochat², Stéphane Joost², Bertrand Servin³, Paola Crepaldi⁴, Alessandra Stella⁵, and Max F Rothschild¹, ¹Department of Animal Science, Iowa State university, IA, US, ²LASIG, EPFL, Lausanne, Switzerland, ³INRA, Castanet-Tolosan, France, ⁴DIMEVET, University of Milan, Milan, Italy., ⁵PTP, Lodi, Italy.

12:45 PM **Workshop Business Meeting.**

Notes

Speakers did a good job keeping to time, but most of them used pretty much the entire allocated time for the presentation, in consequence there was not a lot of time for questions. Nevertheless, a number of presenters mentioned to the Chair after the session that after the workshop other attendants followed them up to ask questions and discuss their results, which is a positive outcome. The choice for having a large number of short talks worked ok and they were well received.

Business Meeting

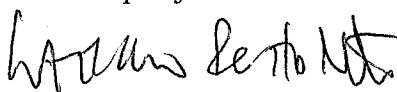
At the beginning of the session the Chair named all Committee members and indicated that the term sitting on the committee for two of them (George Liu and Tad Sonstegard) would finish at this meeting. However, the Chairs also indicated that both of them were interested in continuing to be part of the committee.

At the business meeting, which was a bit confusing since very few people was interested in and most of them were leaving the room, the Chair called for interested people to join the committee. Since no one volunteered, it was agreed to keep the present committee until the next meeting.

Committee members

Chair: Laercio Porto-Neto	(first conference 2017)	laercio.portoneto@csiro.au
Shannon Clark	(first conference 2017)	shannon.clarke@agresearch.co.nz
Heather Huson	(first conference 2017)	hjh3@cornell.edu
Michelle Mousel	(first conference 2017)	mousel@vetmed.wsu.edu
Tad Sonstegard	(term ends 2019)	tad@recombinetics.com
George Liu	(term ends 2019)	george.liu@ars.usda.gov

Workshop adjourned.



Dr Laercio Porto-Neto
August 2017