



<h2>Ruminant Genetics and Genomics</h2>
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**Organised by a Standing Committee:**     YES     NO

**Meeting information**

Date: July 26, 2021
Time: 1:00 PM – 3:30 PM
Number of participants: 130 during the workshop + views “on demand”

**Chair**

Name: Laercio Porto-Neto
Affiliation: CSIRO
Contact email: laercio.portoneto@csiro.au

## Agenda

<b>Ruminant Genetics and Genomics Workshop (orals)</b>	
Chair(s): <b>Laercio R. Porto Neto</b> , CSIRO Agriculture & Food	
Location: <b>Live 1</b>	
Date & Time: <b>Monday, July 26, 1:00 PM - 3:30 PM</b>	
1:00 PM	85394 <b>A comprehensive catalog of regulatory variants in the cattle transcriptome - a case study for the FarmGTEx Project.</b> George E. Liu*, <i>Animal Genomics and Improvement Laboratory, Henry A. Wallace Beltsville Agricultural Research Center, Agricultural Research Service, USDA, Beltsville, Maryland 20705, USA.</i>
1:20 PM	85400 <b>Comparison of sequencing and assembly strategies for the cattle pangenome effort.</b> Alexander Leonard* <sup>1</sup> , Zih-hua Fang <sup>1</sup> , Ben Rosen <sup>2</sup> , Derek Bickhart <sup>2</sup> , Tim Smith <sup>2</sup> , and Hubert Pausch <sup>1</sup> , <sup>1</sup> <i>ETH Zürich, Zürich, Switzerland</i> , <sup>2</sup> <i>ARS, USDA, Beltsville, MD, USA.</i>
1:35 PM	85499 <b>Dissection of the scurs phenotype to refine the mapping of scurs.</b> G Wang* and C Gill, <i>Texas A&amp;M University.</i>
1:50 PM	<b>Break.</b>
2:00 PM	85496 <b>Genomic Breeding Values from low-coverage Nanopore Sequencing.</b> H. J. Lamb, B.J. Hayes, L.T. Nguyen, and E.M. Ross*, <i>The Queensland Alliance for Agriculture and Food Innovation, St Lucia, Queensland, Australia.</i>
2:15 PM	85498 <b>Can SNPs associated with variation in the level of stress biomarkers be used for the selection of stress resilient dairy cows?</b> M.M. Passamonti* <sup>1</sup> , M. Milanesi <sup>4</sup> , J. Ramirez Diaz <sup>1</sup> , A. Stella <sup>2</sup> , M. Barbato <sup>1</sup> , M. Premi <sup>1</sup> , R. Negrini <sup>1</sup> , A. Cecchinato <sup>3</sup> , E. Trevisi <sup>1</sup> , J.L. Williams <sup>1</sup> , and P. Ajmone Marsan <sup>1</sup> , <sup>1</sup> <i>Università Cattolica del Sacro Cuore, Piacenza, Italy</i> , <sup>2</sup> <i>Consiglio Nazionale della Ricerca, Milan, Italy</i> , <sup>3</sup> <i>Università di Padova, Padua, Italy</i> , <sup>4</sup> <i>Università della Tuscia, Viterbo, Italy.</i>
2:30 PM	85497 <b>The distinct morphological phenotypes of domestic sheep are shaped by introgressions from their sibling wild species .</b> Hong Cheng*, Jiayue Wen, Zhuangbiao Zhang, and Yu Jiang, <i>Northwest A&amp;F University, Yangling, Shaanxi, China.</i>
2:45 PM	85495 <b>Genome-wide local ancestry and direct evidence for cytonuclear disequilibria in hybrid African cattle populations (<i>Bos taurus/indicus</i>).</b> J. A. Ward* <sup>1</sup> , G. P. McHugo <sup>1</sup> , M. J. Dover <sup>1</sup> , T. J Hall <sup>1</sup> , S. I. Ng'ang'a <sup>2,3</sup> , T. S. Sonstegard <sup>4</sup> , D. G. Bradley <sup>5</sup> , L. A. F. Frantz <sup>2,3</sup> , M. Salter-Townshend <sup>6</sup> , and D. E. MacHugh <sup>1,7</sup> , <sup>1</sup> <i>Animal Genomics Laboratory, UCD School of Agriculture and Food Science, University College Dublin, Belfield, Dublin,</i>



## INTERNATIONAL SOCIETY FOR ANIMAL GENETICS

*D04 VIW8, Ireland, <sup>2</sup>Palaeogenomics Group, Department of Veterinary Sciences, Ludwig Maximilian University, Munich D-80539, Germany, <sup>3</sup>School of Biological and Chemical Sciences, Queen Mary University of London, London E1 4NS, United Kingdom, <sup>4</sup>Acceligen, 3388 Mike Collins Drive, Eagan, MN, 55121, USA, <sup>5</sup>Smurfit Institute of Genetics, Trinity College Dublin, Dublin, D02 VF25, Ireland, <sup>6</sup>UCD School of Mathematics and Statistics, University College Dublin, Dublin, D04 VIW8, Ireland, <sup>7</sup>UCD Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Dublin, D04 VIW8, Ireland.*

3:00 PM

**Workshop Business Meeting.**

### Summary of the meeting

The presentations went well; the virtual conference system worked fine.

Business Meeting:

George Liu stepped down as a Committee member – Thanks, George, for all your contributions during these years.

The Chair noted that several of the committee member might step down at the next conference, so to minimize disruption between committees, the Chair suggested the election of two new members. After a few nominations, and some withdrawn, we had two nominations that went to individual voting of support, then against by “raising hands” and chat functions. I am pleased to say that both nominations were supported by at least 12 “raise hands” and no against.

After the election of these two new members, the business meeting was closed.

Additional activity of the Committee.

It is a responsibility of the committee members to elect the Chair. The current Chair (Laercio Porto-Neto) would like to give the opportunity to other committee member to Chair the Workshop for the next ISAG conference, and a motion for this was presented for the committee inviting for nominations. During this process, Shannon Clarke was nominated and confirmed by all committee members. Therefore, for now on, Shannon is the Chair of this committee.

**New Committee chair**

Chair: Shannon Clarke
Term of service ( <i>add years of first and second term of service</i> ): 2017, 2019, 2021
Affiliation: Ag Research, New Zealand
E-mail address: Shannon.Clarke@agresearch.co.nz

**New Committee members**

Other committee members	First term of service (from year to year)	Second term of service (from year to year)	Email address
Heather Huson	2017, 2019	2021	hjh3@cornell.edu
Imtiaz Randhawa	Elected 2021	-	i.randhawa@uq.edu.au
Laercio Porto-Neto	2017, 2019	2021	laercio.portoneto@csiro.au
Michelle Mousel	2017, 2019	2021	michelle.mousel@usda.gov
Shannon Clarke	2017, 2019	2021	shannon.clarke@agresearch.co.nz
Siham Rahmatalla	Elected 2021	-	rahmatas@hu-berlin.de
Zihua Jiang	2021	-	jiangz@wsu.edu

**SIGNATURES**




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Laercio Porto-Neto

**Chair**