

I WORKSHOP ON OMICS STRATEGIES APPLIED TO LIVESTOCK SCIENCE

Event dates: 24 – 26 April 2017

Venue: Central de Aulas, ESALQ/USP, Avenida Pádua Dias, 11, Piracicaba – SP

Objectives: Promote discussion and experience exchange on innovative subjects and methods in livestock, addressing issues such as omics technologies for system biology, animal breeding, and genomic data integration for complex traits such as meat quality and feed efficiency.

Program:

Time	April 24th
8:30 - 9:30	Check-in and Welcome Breakfast
9:30 - 10:00	Opening
10:00 - 11:00	Molecular basis of beef quality and feed efficiency of Nelore cattle <i>Luciana C. A. Regitano – Embrapa Pecuária Sudeste</i>
11:00 - 12:00	Update on the Functional Annotation of Animal Genomes (FAANG) initiative <i>James M. Reecy – Iowa State University</i>
12:00 - 14:00	Lunch
14:00 - 15:00	Application prospects of genomic editing in animal selection <i>John Hickey, The Roslin Institute (to be confirmed)</i>
15:00 - 15:30	Widespread modulation of gene expression by copy number variation in skeletal muscle <i>Ludwig Geistlinger - EMBRAPA Pecuária Sudeste</i>
15:30 - 16:00	Coffee break
16:00 - 16:30	Identification of eQTL regions associated with deposition and composition of intramuscular fat <i>Aline Cesar - ESALQ/USP</i>
16:30 - 17:30	New strategies and methodologies for genome-wide association studies (GWAS) <i>Laércio R. Porto Neto - CSIRO Agriculture</i>
Time	April 25th
8:00 - 8:30	Opportunities and challenges of the use of omics tools in animal breeding <i>Luiz L. Coutinho – ESALQ/USP</i>
8:30 - 9:30	Investigation of the impact of Omega3 fatty acids on DNA methylation in pigs <i>James Koltes – University of Arkansas</i>

9:30 – 10:00	Proteomic profile of skeletal muscle of animals with extreme estimated breeding values for intramuscular fat deposition <i>Mirele Poleti - ESALQ/USP</i>
10:00 – 10:30	Coffee break
10:30 - 11:00	Genomic selection from DNAseq data <i>Juliana Petrini - ESALQ/USP</i>
11:00 - 12:00	Omics insights into oocyte development <i>Flávio V. Meirelles – FZEA/USP</i>
12:00 – 14:00	Lunch
14:00 - 15:00	Genomic data integration for complex traits <i>Antonio Reverter - CSIRO Agriculture</i>
15:00 - 15:30	Understanding livestock genetics from the gene function perspective <i>Yuri Tani Utsunomiya – UNESP/Araçatuba</i>
15:30 - 16:30	Poster Session/Coffee Break
16:30 - 17:30	Interaction between host and microbiome and epigenetic communication between the two in pigs <i>James Koltes – University of Arkansas</i>
Time	April 26th
8:30 - 09:30	Identification of variants within regulatory regions: The example of immune response to pathogens responsible for respiratory disease <i>Jerry Taylor - University of Missouri</i>
09:30 - 10:00	Use of WGCNA to identify co-expression networks associated with feed efficiency in Nellore cattle
10:00 - 10:30	Coffee Break
10:30 - 11:00	Genomic variation in Nellore genome <i>Polyana Tizioto– ESALQ</i>
11:00 – 12:00	Single nucleotide variations and InDels identified from whole-genome re-sequencing of Guzerat, Gir and Girolando cattle breeds <i>Marcos Vinicius Barbosa da Silva – EMBRAPA/Gado de Leite</i>
12:00 - 13:00	Discussion and Closing Session
13:00 - 16:00	BBO Lunch

Number of places: 95

Registration fee: R\$ 100,00

Abstract Guidelines:

- The abstracts can be submitted starting February 20, 2017;
- Deadline for abstract submissions is April 10, 2017;
- All abstracts must be submitted electronically (omicslivestock@gmail.com) and written in English;
- Abstracts must describe original, previously unpublished work;
- All registered participants are allowed to submit a single (01) poster presentation;
- Abstracts should contain authors names and affiliation, corresponding author e-mail, title (limited to 250 characters), abstract text (limited to 2,500 characters with space), font Times New Roman 12, Space 1,5 and up to six (06) keywords;
- The abstracts will not review by the Scientific Committee. It is the author's responsibility to submit a correct abstract. Any errors in the abstract text will be reproduced as typed by the author.
- Poster size: 0.90 m x 1.10 m

Organizers:

Luiz Lehmann Coutinho – ESALQ/USP

Gerson Barreto Mourão – ESALQ/USP

Luciana C. A. Regitano – EMBRAPA/Pecuária Sudeste