

# WORKSHOP USP & VT

## WORKING ON THE FUTURE OF ANIMAL SCIENCE



Universidade de São Paulo (FZEA/USP)  
Pirassununga/SP - January, 7 to 9<sup>th</sup> 2019



Venue: Central Building FZEA/USP

Monday 07<sup>th</sup> January 2019

8:30 - 09:30

Registration and Welcome reception

09:30 - 10:00

Official Opening

### SESSION 1: ANIMAL WELFARE

10:00 - 10:30

Using short-term fostering to increase shelter dog welfare  
*Speaker: Erica Feuerbacher - VT*

10:30 - 11:00

Improving animal welfare and increasing land productivity through silvopasture practices  
*Speaker: Gabriel J. Pent - VT*

11:00 - 11:30

Poultry welfare on their last day of life: euthanasia and transportation  
*Speaker: Leonie Jacobs - VT*

11:30 - 12:00

The physiology of heat stress: A shift in metabolic priorities at the systemic and cellular levels  
*Speaker: Robert Paul Rhoads Jr. - VT*

12:00 - 13:00

Lunch

### SESSION 2: REPRODUCTION

13:00 - 13:30

Factors affecting the reproductive performance of heat-stressed dairy cattle  
*Speaker: Michelle Lynn Rhoads - VT*

13:30 - 14:00

Understanding fertility in beef cattle through the lenses of genomics and systems biology  
*Speaker: Fernando Henrique Biase - Auburn University*

14:00 - 14:30

The role of extracellular vesicles in the ovarian follicle: New insights  
*Speaker: Juliano C. Silveira - FZEA/USP*

14:30 - 15:00

Factors affecting the reproductive efficiency in beef cattle  
*Speaker: Vitor Mercadante - VT*

15:00 - 15:30

Use of immunodeficient pigs for organogenesis  
*Speaker: Kiho Lee - VT*

15:30 - 16:00

Coffee - Break

16:00 - 16:30

Studies examining bovine embryo competency  
*Speaker: Alan Ealy - VT*

### SESSION 3: MICROBIOLOGY / IMMUNOLOGY

16:30 - 17:00

Studying the immunological response of the horse using mouse models  
*Speaker: Caroline Leeth VT*

17:00 - 17:30

Intestinal microbiome and pathogen behavior  
*Speaker: John Joseph Maurer - VT*

18:00 - 23:00

Join us for a barbecue party  
*Tickets for sale*

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Tuesday 08<sup>th</sup> January 2019

### SESSION 4: ANIMAL BREEDING AND GENETICS

09:00 – 09:30	<b>Ongoing Research on beef genetics at the College of Animal Sciences and Food Engineering (FZEA/USP)</b> <i>Speaker: José Bento Sterman Ferraz – FZEA/USP</i>
09:30 – 10:00	<b>Genetic Improvement in the US Beef Industry</b> <i>Speaker: Heather Lynn Bradford - VT</i>
10:00 – 10:30	<b>Development of a genomic database for Nelore cattle and computational tools for implementing large-scale studies</b> <i>Speaker: Ricardo Ventura – FMVZ/USP</i>
10:30 – 11:00	<i>Coffee - Break</i>
11:00 – 11:30	<b>Contribution of genomic information for genetic improvement of Nelore cattle</b> <i>Speaker: Fernando Baldi - UNESP</i>
11:30 – 12:00	<b>Identification and characterization of euchromatic regions associated with gene expression and intramuscular fat in Nelore cattle</b> <i>Speaker: Luiz Lehmann Coutinho – ESALQ/USP</i>
12:00 – 12:30	<b>Strategies and methods for genetic improvement of resistance to gastrointestinal parasites in small ruminants</b> <i>Speaker: David Russell Notter – VT</i>
12:30 – 13:30	<i>Lunch</i>

### SESSION 5: GROWTH AND MUSCLE BIOLOGY

13:30 – 14:00	<b>Muscle proteolysis and meat tenderization: Growth and Muscle Biology</b> <i>Speaker: Eduardo F. Delgado – ESALQ/USP</i>
14:00 – 14:30	<b>Muscle Growth in Neonatal Pigs</b> <i>Speaker: Samer W. El-Kadi - VT</i>
14:30 – 15:00	<b>Manipulation of satellite cell activity for improved growth</b> <i>Speaker: Sally Johnson - VT</i>
15:00 – 15:30	<i>Coffee - Break</i>

### SESSION 6: ANIMAL NUTRITION

15:30 – 16:00	<b>Vitamin D in Laying Hens: When Too Much is not Enough</b> <i>Speaker: Michael Edward Persia - VT</i>
16:00 – 16:30	<b>Applied Beef Cattle Nutrition and Management Research at Virginia Tech</b> <i>Speaker: Thomas Bain Wilson - VT</i>
16:30 – 17:00	<b>Precision feeding to optimize the rumen environment</b> <i>Speaker: Robin White</i>

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### Wednesday 09<sup>th</sup> January 2019

09:00 – 09:30

#### Funding Opportunities

*Speaker: Flávio Meirelles - FAPESP*

09:30 – 12:00

#### Researchers Meeting

12:00 – 13:00

*Lunch*

13:00 – 13:30

#### Involving Undergraduates in Research

*Speaker: Cynthia Maxson Wood - VT*

13:30 – 16:00

#### Researchers Meeting

16:00 – 16:15

*Closing Session*