

# Sunday, July 15

## Late-Breaking Original Research

Chair: Anthony V. Capuco, Bovine Functional Genomics Lab  
122AB

- 3:00 PM LB1 **Identification of a genomic region associated with severe combined immunodeficiency in pigs.**  
E. H. Waide\*<sup>1</sup>, C. K. Tuggle<sup>1</sup>, D. M. Thekkoot<sup>1</sup>, N. Boddicker<sup>1</sup>, R. R. Rowland<sup>2</sup>, C. R. Wyatt<sup>2</sup>, and J. C. M. Dekkers<sup>1</sup>,  
<sup>1</sup>Iowa State University, Ames, <sup>2</sup>Kansas State University, Manhattan.
- 3:15 PM LB2 **Characterization of genetic variation within the somatotropic axis in DNA pools of beef and dairy cattle divergent for milk production, size, fertility, and immune response.**  
M. P. Mullen\*<sup>1,2</sup>, C. Creevey<sup>3</sup>, D. P. Berry<sup>4</sup>, M. S. McCabe<sup>2</sup>, D. J. Howard<sup>1</sup>, D. A. Magee<sup>5</sup>, M. C. Lucy<sup>6</sup>, D. E. MacHugh<sup>5,7</sup>,  
and S. M. Waters<sup>2</sup>, <sup>1</sup>Animal and Bioscience Research Department, Animal and Grassland Research and Innovation Centre, Teagasc, Athenry, Co. Galway, Ireland, <sup>2</sup>UCD School of Veterinary Medicine, University College Dublin, Belfield, Dublin 4, Ireland, <sup>3</sup>Animal and Bioscience Research Department, Animal and Grassland Research and Innovation Centre, Teagasc, Grange, Co. Meath, Ireland, <sup>4</sup>Animal and Bioscience Research Department, Animal and Grassland Research and Innovation Centre, Teagasc, Moorepark, Fermoy, Cork, Ireland, <sup>5</sup>UCD School of Agriculture and Food Science, University College Dublin, Belfield, Dublin 4, Ireland, <sup>6</sup>Department of Animal Sciences, University of Missouri, Columbia, <sup>7</sup>UCD Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Belfield, Dublin 4, Ireland.
- 3:30 PM LB3 **Imputation of microsatellite alleles from dense SNP genotypes for paternal verification.**  
M. C. McClure<sup>1</sup>, T. S. Sonstegard<sup>1</sup>, G. R. Wiggans<sup>1</sup>, A. Van Eenennaam<sup>2</sup>, K. Weber<sup>2</sup>, C. Penedo<sup>2</sup>, and C. P. Van Tassell\*<sup>1</sup>,  
<sup>1</sup>USDA-ARS, Beltsville, MD, <sup>2</sup>University of California, Davis.
- 3:45 PM LB4 **Improvement of feed efficiency through diet and breed-dependent genetic polymorphisms.**  
N. V. L. Serão,\* J. E. Beever, D. B. Faulkner, and S. L. Rodriguez-Zas, *University of Illinois at Urbana-Champaign.*
- 4:00 PM LB5 **Mixed rumen microbes respond to excess carbohydrate by synthesizing glycogen and spilling energy.**  
T. J. Hackmann,\* K. L. Backus, and J. L. Firkins, *The Ohio State University, Columbus.*
- 4:15 PM LB6 **Fine mapping and discovery of recessive mutations that cause abortions in dairy cattle.**  
P. M. VanRaden<sup>1</sup>, D. J. Null\*<sup>1</sup>, T. S. Sonstegard<sup>2</sup>, H. A. Adams<sup>3</sup>, C. P. Van Tassell<sup>2</sup>, and K. M. Olson<sup>4</sup>, <sup>1</sup>Animal Improvement Programs Laboratory, ARS, USDA, Beltsville, MD, <sup>2</sup>Bovine Functional Genomics Laboratory, ARS, USDA, Beltsville, MD, <sup>3</sup>Institute for Genomic Biology, University of Illinois, Urbana, <sup>4</sup>National Association of Animal Breeders, Columbia, MO.
- 4:30 PM LB7 **Maternal dietary energy source during gestation affects expression of imprinted genes in fetal tissues in sheep.**  
X. Lan, R. Gamba, M. A. Berg, E. J. Cretney, H. Khatib, and A. E. Radunz,\* *University of Wisconsin-Madison, Madison.*
- 4:45 PM LB8 **Potential for post-extraction algal residue to replace cottonseed meal as a protein supplement to grazing cattle.**  
M. L. Drewery,\* J. E. Sawyer, and T. A. Wickersham, *Texas A&M University, College Station.*
-