Identification of a genomic region associated with severe combined immunodeficiency in pigs.
E. H. Waide*, C. K. Tuggle1, D. M. Thekkoot1, N. Boddicker1, R. R. R. Rowland2, C. R. Wyatt2, and J. C. M. Dekkers1,
1Iowa State University, Ames, 2Kansas State University, Manhattan.

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*1,2, C. Creevey3, D. P. Berry4, M. S. McCabe5, D. J. Howard1, D. A. Magee6, D. E. MacHugh1,7, and S. M. Waters2, 1Animal and Bioscience Research Department, Animal and Grassland Research and Innovation Centre, Teagasc, Athenry, Co. Galway, Ireland, 2UCD School of Veterinary Medicine, University College Dublin, Belfield, Dublin 4, Ireland, 3Animal and Bioscience Research Department, Animal and Grassland Research and Innovation Centre, Teagasc, Grange, Co. Meath, Ireland, 4Department of Animal Sciences, University of Missouri, Columbia, 5UCD Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Belfield, Dublin 4, Ireland.

Imputation of microsatellite alleles from dense SNP genotypes for paternal verification.
M. C. McClure1, T. S. Sonstegard1, G. R. Wiggans1, A. Van Eenennaam2, K. Weber2, C. Penedo2, and C. P. Van Tassell*1, 1USDA-ARS, Beltsville, MD, 2University of California, Davis.

Improvement of feed efficiency through diet and breed-dependent genetic polymorphisms.

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.

Fine mapping and discovery of recessive mutations that cause abortions in dairy cattle.
P. M. VanRadten1, D. J. Null*, T. S. Sonstegard2, H. A. Adams3, C. P. Van Tassell2, and K. M. Olson1, 1Animal Improvement Programs Laboratory, ARS, USDA, Beltsville, MD, 2Bovine Functional Genomics Laboratory, ARS, USDA, Beltsville, MD, 3Institute for Genomic Biology, University of Illinois, Urbana, 4National Association of Animal Breeders, Columbia, MO.

Maternal dietary energy source during gestation affects expression of imprinted genes in fetal tissues in sheep.
X. Lan, R. Gambra, M. A. Berg, E. J. Cretney, H. Khatib, and A. E. Radunz,* University of Wisconsin-Madison, Madison.

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.