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Diamond V Update

Research Update

Research at ASAS Midwest: Nursery pigs and sows

Iowa is home to roughly 25% of U.S. pigs in addition to the annual meeting of the Midwestern Section of the American Society of Animal Science, which takes place this year March 14-16 at the CCCU Convention Center in Des Moines.

Dr. Jason Frank
Diamond V

The 2016 program offers recent research on sow feeding during gestation and lactation as well as the feeding of young pigs, both pre-weaning and in the nursery. Productive pigs require a healthy, stable gut environment under all conditions, during every phase of production. Yet, many diseases and performance-related issues can impact the sow and her piglets.

Dr. Benjamin Bass
Diamond V

Weaning is an especially stressful time. The transition from sow's milk to dry feed often affects gut health in the young pig, which can open the way to disease in the nursery. Healthy populations of beneficial gut bacteria help pigs resist stress and perform better, as shown in studies scheduled for presentation at ASAS Midwest.

Diamond V scientists on hand in Des Moines to discuss the latest research include **Jason Frank, PhD** (Director, Non Ruminant Research & Technical Support) and **Benjamin Bass, PhD** (Scientist, Swine Research and Technical Support).

Nursery pig research

Abstract 175: Effects of *Lactobacillus acidophilus* fermentation product on growth performance, nutrient digestibility, and fecal microbiota in weanling pigs
R.X Lan, J.M. Koo, S.I. Lee, J.H. Cho, and I.H. Kim
March 14, 5:00-5:45 p.m., Grand Ballroom Foyer

Abstract 307: Supplementation of a *Lactobacillus acidophilus* fermentation product can attenuate the acute phase response following a lipopolysaccharide challenge in pigs
P.R. Broadway, J.A. Carroll, N.C. Burdick Sanchez, B.E. Bass, and J.W. Frank
March 15, 9:15 a.m., Room 401

Abstract 152: Effects of *Lactobacillus acidophilus* fermentation product supplementation in different nutrient density diets on growth performance, nutrient digestibility, fecal microbiota and fecal noxious gas emissions in weanling pigs
R.X. Lan, J.M. Koo, S.I. Lee, and I.H. Kim
March 15, 1:45 p.m., Room 314-315

Abstract 158: *Lactobacillus acidophilus* fermentation product modulates inflammatory activity by regulating the TLR4 and NFkB expression in porcine peripheral blood mononuclear cells after lipopolysaccharide challenge
S.I. Lee, J.M. Koo, R.X. Lan, and I.H. Kim
March 15, 3:15 p.m., Room 314-315

Abstract 251: Effect of a *Lactobacillus acidophilus* fermentation product and dietary antibiotics, alone or in combination, on nursery pig performance and frequency of medical treatment.
J. Acosta, J.W. Frank, and J.F. Patience
March 16, 9:45 a.m., Room 308-309

Sow research

Abstract 286: Effects of *Saccharomyces cerevisiae* fermentation product supplementation in late gestation and lactation on sow and litter performance, milk components, and fecal *Clostridium perfringens*
T.C. Tsai, H.J. Kim, X. Wang, B.E. Bass, J.W. Frank, and C.V. Maxwell
March 16, 7:30-8:15 a.m., Grand Ballroom Foyer

Here's the complete ASAS Midwest Meeting program.

To learn more, arrange to meet Jason (email jfrank@diamondv.com) or Ben (email bbass@diamondv.com) in Des Moines. Or, visit DiamondV.com.