



## **Jian Peng, PhD**

Professor, Department of animal nutrition and feed science, College of Animal Science and Technology Huazhong Agricultural University Wuhan, HUBEI, 430070 P.R.China

### **Education and Training**

- 1997.9---1998.12 Visiting scholar, University of Manitoba, Canada  
1997.9----1999.12: Ph.D., Animal inheritance and breeding Huazhong Agricultural University, Wuhan, P. R. China  
1984.9----1987.6: MS, Food science Huazhong Agricultural University, Wuhan, P. R. China  
1980.9----1984.6: Animal husbandry Huazhong Agricultural University, Wuhan, P. R. China

### **Research experience**

Dr. Peng's research fields are swine nutrition and feed science. From 2005-2015, she was the director of department of animal nutrition and feed science in Huazhong Agricultural University. Since 1987, she presided and participated in more 50 projects/grants including the International Foundation of Science, Natural Science Foundation of China, Agricultural Ministry of China, etc. In early 2000, she began to develop the enzymes for application in swine diets. This led her to win national science and technology progress prize. She developed 3 specific and 2 broad-spectrum yolk antibody for ETEC during past 15 years. In 2010, she started to investigate the application of essential oils, probiotics and prebiotics in weaning pigs, finishing pigs, sows and boars. Additionally, she also developed a program on application of protein-reduced diets in pigs.

Dr. Peng published over 100 peer-reviewed papers and two books in the past 10 years. The journals include British Journal of Nutrition, Journal of agricultural and food chemistry, Livestock Science, Animal Feed Science and Technology, Amino Acids, Animal Reproduction Science, Journal of Animal Science, Animal, etc. She also acts as a Reviewer for approx. 10 different journals in nutrition and physiology.

### **Selected publications**

1. H. Wei#, G. Chen#, R. Wang, J. Peng\*. Oregano essential oil decreased susceptibility to oxidative stress-induced dysfunction of intestinal epithelial barrier in rats. *Journal of Functional Foods*. 2015, 18:1191-1199
2. H. Sun#, C. Tan#, H. Wei, Y. Zou, G. Long, J. Ao, H. Xue, S Jiang\*, J. Peng\*. Effects of

different amounts of konjac flour inclusion in gestation diets on physio-chemical properties of diets, postprandial satiety in pregnant sows, lactation feed intake of sows and piglet performance. *Animal reproduction science*, 2015, 152:55-64.

3. C. Tan, H. Wei, H. Sun, J. Ao, G. Long, S. Jiang\*, J. Peng\*. Effects of supplementing sow diets during two gestations with konjac flour and *Saccharomyces boulardii* on constipation in peripartal period, lactation feed intake and piglet performance. *Animal Feed Science and Technology*, 2015, 210:254-262

4. C. Tan, H. Wei, H. Sun, J. Ao, G. Long, S. Jiang\*, J. Peng\*. Effects of Dietary Supplementation of Oregano Essential Oil to Sows on Oxidative Stress Status, Lactation Feed Intake of Sows, and Piglet Performance. *BioMed Research International*, 2015, 2015:525218

5. Zhang T, Zhou Y, Zou Y, Hu X, Zheng L, Wei H, Giannenas I, Jin L, J. Peng\*, S. Jiang\*. Effects of dietary oregano essential oil supplementation on the stress response, antioxidative capacity, and HSPs mRNA expression of transported pigs. *Livestock Science*, 2015, 180:143–149

6. H. Sun, Y. Zhou, C. Tan, L. Zheng, J. Peng\*, S. Jiang\*. Effects of konjac flour inclusion in gestation diets on the nutrient digestibility, lactation feed intake and reproductive performance of sows. *Animal*, 2014,8(7): 1089-1094

7. J. Luo, F. Huang, C. Xiao, Z. Fang, J. Peng\*, S. Jiang\*. Responses of growth performance and proinflammatory cytokines expression to fish oil supplementation in lactation sows' and/or weaned piglets' diets. *Biomed Res Int*, 2013: 905918

8. H. Wei, Y. Zhou, S. Jiang, Y. Tao, H. Sun, J. Peng\*, S. Jiang\*. Feeding a DHA-enriched diet increases skeletal muscle protein synthesis in growing pigs: association with increased skeletal muscle insulin action and local mRNA expression of insulin-like growth factor 1. *British Journal of Nutrition*, 2013,110(4): 671-680

9. J. Luo, F. Huang, C. Xiao, W. Chen, S. Jiang\*, J. Peng\*. Effect of dietary supplementation of fish oil for lactating sows and weaned piglets on piglet Th polarization. *Livestock Science*. 2009,126: 286-291

10. Z. Fang, Z. Liu, J. Dai, H. Qian, Z. Qi, L. Ma, J. Peng\*. Effects of enzyme addition on the nutritive value of broiler diets containing hulled or dehulled Chinese double-low rapeseed meals. *Journal of Animal Physiology and Animal Nutrition*. 2009,93(4): 467-476