

Genetics, Animal Genetic Resources and Breeding

Original research articles

- A genome-wide association study of reproductive traits in a Yorkshire pig population
Md.R. Uzzaman, J.-E. Park, K.-T. Lee, E.-S. Cho, B.-H. Choi and T.-H. Kim

Ruminant Nutrition

Original research articles

- Effect of substituting barley with glycerol as energy feed on feed intake, milk production and milk quality in dairy cows in mid or late lactation
C. Gaillard, M.T. Sørensen, M. Vestergaard, M.R. Weisbjerg, M.K. Larsen, H. Martinussen, U. Kidmose and J. Sehested
- Milk yield and urinary-nitrogen excretion of dairy cows grazing forb pasture mixtures designed to reduce nitrogen leaching
R.H. Bryant, B.G. Welten, D. Costall, P.R. Shorten and G.R. Edwards

Non-Ruminant Nutrition

Original research articles

- Dietary arginine supplementation enhances the growth performance and immune status of broiler chickens
Y.Q. Xu, Y.W. Guo, B.L. Shi, S.M. Yan and X.Y. Guo
- Effect of diet complexity, multi-enzyme complexes, essential oils, and benzoic acid on weanling pigs
Y. Wang, L.I. Chiba, C. Huang, I.M. Torres, L. Wang and E.G. Welles
- The effect of citric acid acidification of drinking water on growth performance, cecal pH, and cecal microflora of meat duck
H. Liao, X.P. Wu, K.Y. Zhang, X.M. Ding, S.P. Bai, J.P. Wang and Q.F. Zeng
- Effects of chito-oligosaccharide supplementation with low or medium molecular weight and high degree of deacetylation on growth performance, nutrient digestibility and small intestinal morphology in weaned pigs
B. Thongsong, S. Suthongsa, R. Pichyangkura and S. Kalandakanond-Thongsong

67

25

46

8

32

54

60

Livestock Farming Systems and Management

Review papers

- Type and number of environmental impact categories used in livestock life cycle assessment: A systematic review
S.C. McClelland, C. Arndt, D.R. Gordon and G. Thoma 39

Original research articles

- The effect of dairy cow breed on milk production, cow traffic and milking characteristics in a pasture-based automatic milking system
J. Shortall, C. Foley, R.D. Sleator and B. O'Brien 1
- Productive and economic performance of endemic N'Dama cattle in southern Mali compared to Fulani Zebu and their crossbreds
S.A. Traoré, C. Reiber and A.V. Zárate 77

Short communication

- Litter size of Danish crossbred sows increased without changes in sow body dimensions over a thirteen year period
S.E. Nielsen, A.R. Kristensen and V.Aa. Moustsen 73

Physiology

Original research articles

- Effects of abomasal supplementation of quercetin on performance, inflammatory cytokines, and matrix metalloproteinase genes expression in goats fed a high-grain diet
C. Guo, H. Li, D. Sun, J. Liu and S. Mao 20

Reproduction Physiology

Original research articles

- Expression of progesterone receptor and progesterone-induced blocking factor in the spleen during early pregnancy in ewes
L. Yang, R. Guo, X. Yao, J. Yan, Y. Bai and L. Zhang 14