

Asian-Australasian Journal of Animal Sciences

June 2010

Volume 23 Number 6

Contents

ANIMAL REPRODUCTION AND PHYSIOLOGY

91. Imprinted Gene mRNA Expression during Porcine Peri-implantation Development / *Byung-Hyun Cha, Bong-Ki Kim, Seongsoo Hwang, Byoung-Chul Yang, Gi-Sun Im, Mi-Rung Park, Jae-Seok Woo, Myung-Jick Kim, Hwan-Hoo Seong, Jae-Hyeon Cho and Yeoung-Gyu Ko* (Korea) 693

RUMINANT NUTRITION AND FORAGE UTILIZATION

92. Effects of Protease-resistant Antimicrobial Substances Produced by Lactic Acid Bacteria on Rumen Methanogenesis / *Reina Asa, Tanaka A., Uehara A., Shinzato I., Toride Y., Usui N., Hirakawa K. and Takahashi J.* (Japan) 700
93. Seasonal Changes in Energy-related Blood Metabolites and Mineral Profiles of Nguni and Crossbred Cattle on Communal Rangelands in the Eastern Cape, South Africa / *C. Mapiye, M. Chimonyo, K. Dzama and M. C. Marufu* (South Africa) 708
94. Interactive Effects of Nitrogen and Potassium Fertilization on Oxalate Content in Napiergrass (*Pennisetum purpureum*) / *M. M. Rahman, Y. Ishii, M. Niimi and O. Kawamura* (Japan) 719

NONRUMINANT NUTRITION AND FEED PROCESSING

95. Effects of Dietary Paprika and Lipid Levels on Growth and Skin Pigmentation of Pale Chub (*Zacco platypus*) / *Choong-Ryul Lee, Minh Anh Pham and Sang-Min Lee* (Korea) 724
96. Hypocholesterolemic Response to Karaya Saponin and *Rhodobacter capsulatus* in Broiler Chickens / *Sadia Afrose, Md. Sharoare Hossain, Takaaki Maki and Hirotada Tsujii* (Japan) 733
97. Effect of Quercetin on the Activity and mRNA Expression of Antioxidant Enzymes and Physiological Responses in Olive Flounder (*Paralichthys olivaceus*) Exposed to Cadmium / *H. S. Shin, J. H. Yoo, T. S. Min, J. Lee and C. Y. Choi* (Korea) 742
98. Effects of *Astragalus* Polysaccharides, *Achyranthes bidentata* Polysaccharides, and *Acantbepanax senticosus* Saponin on the Performance and Immunity in Weaned Pigs / *P. Kang, H. L. Xiao, Y. Q. Hou, B. Y. Ding, Y. L. Liu, H. L. Zhu, Q. Z. Hu, Y. Hu and Y. L. Yin* (China) 750
99. Effect of Dietary Copper Sources (Cupric Sulfate and Cupric Methionate) and Concentrations on Performance and Fecal Characteristics in Growing Pigs / *Y. Huang, T. X. Zhou, J. H. Lee, H. D. Jang, J. C. Park and I. H. Kim* (Korea) 757
100. Effect of Additive on the Chemical Composition of Tra Catfish (*Pangasius hypophthalmus*) By-product Silages and Their Nutritive Value for Pigs / *Nguyen Thi Thuy, Jan Erik Lindberg and Brian Ogle* (Vietnam) 762

101. Effects of Dietary Skullcap (<i>Scutellaria baicalensis</i>) Extract on Laying Performance and Lipid Oxidation of Chicken Eggs / <i>Byoung Ki An, Hyuk Sin Kwon, Bo Keun Lee, Jae Young Kim, Sun Jong You, Jin Man Kim and Chang Won Kang</i> (Korea)	772
102. Effect of Two Doses of Different Zinc Sources (Inorganic vs. Chelated form) on the Epithelial Proliferative Activity and the Apoptotic Index of Intestinal Mucosa of Early-weaned Pigs Orally Challenged with <i>E.coli</i> K88 / <i>Maurizio Mazzoni, Giuseppe Meriardi, Giuseppe Sarli, Paolo Trevisi and Paolo Bosi</i> (Italy)	777
103. Effects of Fermented Garlic Powder on Production Performance, Egg Quality, Blood Profiles and Fatty Acids Composition of Egg Yolk in Laying Hens / <i>X. Ao, J. S. Yoo, J. H. Lee, H. D. Jang, J. P. Wang, T. X. Zhou and I. H. Kim</i> (Korea)	786
104. Growth Performance of Nursery Pigs Fed 30% Distillers Dried Grain with Solubles (DDGS) and the Effects of Pelleting on Performance and Nutrient Digestibility / <i>Zhengpeng Zhu, Rodney B. Hinson, Li Ma, Defa Li and Gary L. Allee</i> (China)	792
105. Carotenoid Accumulation and Their Antioxidant Activity in Spent Laying Hens as Affected by Polarity and Feeding Period / <i>C.-Y. Lee, B.-D. Lee, J.-C. Na and G. An</i> (Korea)	799

ANIMAL BIOTECHNOLOGY

106. Knocking-in of the Human Thrombopoietin Gene on Beta-casein Locus in Bovine Fibroblasts / <i>Mira Chang, Jeong-Woong Lee, Deog-Bon Koo, Sang Tae Shin and Yong-Mahn Han</i> (Korea)	806
--	-----

ANIMAL BEHAVIOR AND WELFARE

107. Effect of Experience, Education, Record Keeping, Labor and Decision Making on Monthly Milk Yield and Revenue of Dairy Farms Supported by a Private Organization in Central Thailand / <i>S. Yeamkong, S. Koonawootrittriron, M. A. Elzo and T. Suwanasopee</i> (Thailand)	814
--	-----

REVIEW PAPER

108. Bio-fermentation Technology to Improve Efficiency of Swine Nutrition / <i>Sung Woo Kim</i> (USA)	825
---	-----
