

Asian-Australasian Journal of Animal Sciences

September 2009

Volume 22 Number 9

Contents

INVITED REVIEW

162. Regulation of Fat and Fatty Acid Composition in Beef Cattle / *Stephen B. Smith, Clare A. Gill, David K. Lunt and Matthew A. Brooks* (USA) 1225

ANIMAL BREEDING AND GENETICS

163. Genetic Structure and Differentiation of Three Indian Goat Breeds / *S. P. Dixit, N. K. Verma, R. A. K. Aggarwal, Sandeep Kumar, Ramesh Chander, M. K. Vyas and K. P. Singh* (India) 1234
164. A Simple Polymerase Chain Reaction-based Method for the Discrimination of Three Chicken Breeds / *Y. Kubo, G. Plastow and T. Mitsuhashi* (Japan) 1241

ANIMAL REPRODUCTION AND PHYSIOLOGY

165. Fatty Acid Composition in Blood Plasma and Follicular Liquid in Cows Supplemented with Linseed or Canola Grains / *Karina Perehouskei Albuquerque, Ivanor Nunes do Prado, Fábio Luiz Bim Cavalieri, Luiz Paulo Rigolon, Rodolpho Martin do Prado and Polyana Pizzi Rotta* (Brazil) 1248

RUMINANT NUTRITION AND FORAGE UTILIZATION

166. Effects of Rice Straw Particle Size on Chewing Activity, Feed Intake, Rumen Fermentation and Digestion in Goats / *X. G. Zhao, M. Wang, Z. L. Tan, S. X. Tang, Z. H. Sun, C. S. Zhou and X. F. Han* (China) 1256
167. Effects of Protein Supply from Soyhulls and Wheat Bran on Ruminal Metabolism, Nutrient Digestion and Ruminal and Omasal Concentrations of Soluble Non-ammonia Nitrogen of Steers / *Jeong-Hoon Kim, Young-Kyoon Oh, Kyoung-Hoon Kim, Chang-Won Choi, Seong-Koo Hong, Yong-Joo Seol, Do-Hyung Kim, Gyu-Chul Ahn, Man-Kang Song and Keun-Kyu Park* (Korea) 1267

NONRUMINANT NUTRITION AND FEED PROCESSING

168. Effect of Inorganic and Organic Trace Mineral Supplementation on the Performance, Carcass Characteristics, and Fecal Mineral Excretion of Phase-fed, Grow-finish Swine / *J. L. Burkett, K. J. Stalder, W. J. Powers, K. Bregendahl, J. L. Pierce, T. J. Baas, T. Bailey and B. L. Shafer* (USA) 1279
-

169. Effects of Xylanase on Performance, Blood Parameters, Intestinal Morphology, Microflora and Digestive Enzyme Activities of Broilers Fed Wheat-based Diets / <i>Dingyuan Luo, Fengxia Yang, Xiaojun Yang, Junhu Yao, Baojun Shi and Zhenfeng Zhou</i> (China)	1288
170. The Effect of Clinoptilolite in Low Calcium Diets on Performance and Eggshell Quality Parameters of Aged Hens / <i>Şerife Şule Gezen, Mustafa Eren, Faruk Balcı, Gülay Deniz, Hakan Biricik and Birgül Bozan</i> (Turkey)	1296
171. Effects of Dietary Zinc Level and an Inflammatory Challenge on Performance and Immune Response of Weanling Pigs / <i>Sun Guo-jun, Chen Dai-wen, Zhang Ke-ying and Yu Bing</i> (China)	1303
172. Evaluation of Soybean Oil as a Lipid Source for Pig Diets / <i>S. W. Park, S. H. Seo, M. B. Chang, I. S. Shin and I. K. Paik</i> (Korea)	1311

ANIMAL BIOTECHNOLOGY

173. Effect of Nicotinamide on Proliferation, Differentiation, and Energy Metabolism in Bovine Preadipocytes / <i>Xiaomu Liu, Jinlian Fu, Enliang Song, Kun Zang, Fachun Wan, Naike Wu and Aiguo Wang</i> (China)	1320
---	------

ANIMAL BEHAVIOR AND WELFARE

174. Effect of Individual, Group or ESF Housing in Pregnancy and Individual or Group Housing in Lactation on the Performance of Sows and Their Piglets / <i>R. C. Weng, S. A. Edwards and L. C. Hsia</i> (Taiwan)	1328
---	------

REVIEW PAPER

175. Stewardship, Stockmanship and Sustainability in Animal Agriculture / <i>E. Szücs, R. Geers and E. N. Sossidou</i> (Hungary)	1334
176. Dietary Transformation of Lipid in the Rumen Microbial Ecosystem / <i>Eun J. Kim, Sharon A. Huws, Michael R. F. Lee and Nigel D. Scollan</i> (UK)	1341
