

Review Paper

- 1109** An updated review on probiotics as an alternative of antibiotics in poultry — A review
Muhammad Umar Yaqoob, Geng Wang, Minqi Wang (China)

Animal Breeding and Genetics

- 1121** Genetic diversity and population structure of Mongolian regional horses with 14 microsatellite markers
Jihye Yun, Baatartsogt Oyungerel, Hong Sik Kong (Korea)
- 1129** Exploring effects of different male parent crossings on sheep muscles and related regulatory genes using mRNA-Seq
Jinping Shi, Quanwei Zhang, Yali Song, Zhaomin Lei, Lingjuan Fu, Shuru Cheng (China)
- 1141** Genetic analysis of mitochondrial DNA from ancient *Equus caballus* bones found at archaeological site of Joseon dynasty period capital area
Jong Ha Hong, Chang Seok Oh, Sun Kim, In Uk Kang, Dong Hoon Shin (Korea)
- 1151** Association between age at first calving, first lactation traits and lifetime productivity in Murrah buffaloes
P. Tamboli, A. Bharadwaj, A. Chaurasiya, Y. C. Bangar, A. Jerome (India)

Ruminant Nutrition and Forage Utilization

- 1162** An investigation on fermentative profile, microbial numbers, bacterial community diversity and their predicted metabolic characteristics of Sudangrass (*Sorghum sudanense* Stapf.) silages
Siran Wang, Junfeng Li, Jie Zhao, Zhihao Dong, Tao Shao (China)
- 1174** Provision of a protein-rich supplement for grazing suckling female beef calves to improve productive performance and metabolic response
Deilen S Moreno, Román M Ortega, David C Marquez, Thiago R Moreira, Edson J dos Santos, Daniel M de Almeida, Mário F Paulino, Luciana N Rennó, Edenio Detmann (Colombia)
- 1184** Elevated thyroid hormones caused by high concentrate diets participate in hepatic metabolic disorders in dairy cows
Qu Chen, Chen Wu, Zhihao Yao, Liuping Cai, Yingdong Ni, Shengyong Mao (China)

Nonruminant Nutrition and Feed Processing

- 1195** *In vitro* fermentation profiles of different soybean oligosaccharides and their effects on skatole production and cecal microbiota of broilers
Xin Zhu, Miao Xu, Haiying Liu, Guiqin Yang (China)
- 1205** Influence of spent ginger yeast cultures on the production performance, egg quality, serum composition, and intestinal microbiota of laying hens
Junhan Liu, Yuhong Jin, Junhua Yang (China)

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- 1215** Silymarin seed extract supplementation enhances the growth performance, meat quality, and nutrients digestibility, and reduces gas emission in broilers
Sureshkumar Shanmugam, Jae Hong Park, Sungbo Cho, In Ho Kim (Korea)
- 1223** Maternal nutrition altered embryonic *MYOD1*, *MYF5*, and *MYF6* gene expression in genetically fat and lean lines of chickens
Feng Li, Chunxu Yang, Yingjie Xie, Xiang Gao, Yuanyuan Zhang, Hangyi Ning, Guangtao Liu, Zhihui Chen, Anshan Shan (China)
- 1235** Glutamate attenuates lipopolysaccharide induced intestinal barrier injury by regulating corticotropin-releasing factor pathway in weaned pigs
Junjie Guo, Tianzeng Liang, Huifu Chen, Xiangen Li, Xiaorui Ren, Xiuying Wang, Kan Xiao, Jiangchao Zhao, Huiling Zhu, Yulan Liu (China)
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Animal Products

- 1250** Effect of incorporation of soy protein isolate and inulin on quality characteristics and shelf-life of low-fat duck meat sausages
S. Moirangthem, S. K. Laskar, A. Das, S. Upadhyay, R. A. Hazarika, J. D. Mahanta, H. M. Sangtam (India)
- 1258** Half-castration is a newly effective method for increasing yield and tenderness of male cattle meat
Van-Ba Hoa, Dong-Heon Song, Kuk-Hwan Seol, Sun-Moon Kang, Hyun-Wook Kim, Sun-Sik Jang, Soo-Hyun Cho (Korea)
- 1270** Effects of different frozen temperatures of pork sausage batter on quality characteristics of reduced-salt sausages using pre-rigor muscle
Geon Ho Kim, Koo Bok Chin (Korea)
- 1279** Antioxidant activity of *Cinnamomum cassia* extract and quality of raw chicken patties added with *C. cassia* powder and *Pleurotus sajor-caju* powder as functional ingredients during storage
Kanita Galih Julia Rakasivi, Koo Bok Chin (Korea)