

Review Paper

- 1461** Microbial short-chain fatty acids: a bridge between dietary fibers and poultry gut health — A review
Qasim Ali, Sen Ma, Shaokai La, Zhiguo Guo, Boshuai Liu, Zimin Gao, Umar Farooq, Zhichang Wang, Xiaoyan Zhu, Yalei Cui, Defeng Li, Yinghua Shi (China)

Animal Breeding and Genetics

- 1479** Evaluation of coat color inheritance and production performance for crossbreed from Chinese indigenous Chenghua pig crossbred with Berkshire
Yujing Li, Rong Yuan, Zhengyin Gong, Qin Zou, Yifei Wang, Guoqing Tang, Li Zhu, Xuwei Li, Yanzhi Jiang (China)
- 1489** Association study and expression analysis of olfactomedin like 3 gene related to meat quality, carcass characteristics, retail meat cut, and fatty acid composition in sheep
Kasita Listyarini, Cece Sumantri, Sri Rahayu, Muhammad Jasim Uddin, Asep Gunawan (Australia)
- 1499** Genetic parameters of milk and lactation curve traits of dairy cattle from research farms in Thailand
Santi Pangmao, Peter C. Thomson, Mehar S. Khatkar (Australia)
- 1512** Identification and functional prediction of long non-coding RNAs related to skeletal muscle development in Duroc pigs
Lixia Ma, Ming Qin, Yulun Zhang, Hui Xue, Shiyin Li, Wei Chen, Yongqing Zeng (China)

Animal Reproduction and Physiology

- 1524** Effect of temporary weaning and creep feeding on calf growth and the reproductive efficiency of their Hereford dams
R. Santa Cruz, I. De Barbieri, V. Morales Olmos, F. Montossi, C. Viñoles (Uruguay)

Ruminant Nutrition and Forage Utilization

- 1535** Microbiome-metabolomics analysis of the effects of decreasing dietary crude protein content on goat rumen microbiota and metabolites
Wen Zhu, Tianwei Liu, Jian Deng, Cong Cong Wei, Zi Jun Zhang, Di Ming Wang, Xing Yong Chen (China)
- 1545** Effects of feeding high-energy diet on growth performance, blood parameters, and carcass traits in Hanwoo steers
Dong Hun Kang, Ki Yong Chung, Bo Hye Park, Ui Hyung Kim, Sun Sik Jang, Zachary K. Smith, Jongkyoo Kim (USA)
- 1556** Supplementation of guanidinoacetic acid and rumen-protected methionine increased growth performance and meat quality of Tan lambs
Jian Hao Zhang, Hai Hai Li, Gui Jie Zhang, Ying Hui Zhang, Bo Liu, Shuai Huang, Jessie Guyader, Rong Zhen Zhong (China)

**Nonruminant
Nutrition and
Feed Processing**

- 1566** Effects of dietary methyl sulfonyl methane and selenium on laying performance, egg quality, gut health indicators, and antioxidant capacity of laying hens
Yoo Bhin Kim, Sang Hyeok Lee, Da-Hye Kim, Kyung-Woo Lee (Korea)
- 1575** Effect of partially replacing soybean meal with sunflower meal with supplementation of multienzymes on growth performance, carcass characteristics, meat quality, ileal digestibility, digestive enzyme activity and caecal microbiota in broilers
Muhammad Umar Yaqoob, Muhammad Yousaf, Safdar Imran, Safdar Hassan, Waqar Iqbal, Muhammad Umer Zahid, Naveed Ahmad, Minqi Wang (China)
- 1585** Exogenous emulsifiers and multi-enzyme combination improves growth performance of the young broiler chickens fed low energy diets containing vegetable oil
Samiru Sudharaka Wickramasuriya, Shemil Priyan Macelline, Eunjoo Kim, Taeg Kyun Shin, Hyun Min Cho, Dinesh D. Jayasena, Jung Min Heo (Korea)
- 1592** Three-step *in vitro* digestion model for evaluating and predicting fecal odor emission from growing pigs with different dietary protein intakes
Shih-Hua Lo, Ching-Yi Chen, Han-Tsung Wang (Taiwan)
- 1606** Effect of propolis supplementation and breed on growth performance, immunity, blood parameters and cecal microbiota in growing rabbits
Ibrahim Al-Homidan, Moataz Fathi, Magdy Abdelsalam, Tarek Ebeid, Osama Abou-Emera, Mohamed Mostafa, Mohamed Abd El-Razik, Mohamed Shehab-El-Deen (Saudi Arabia)
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Animal Health

- 1616** Oxidative stress impairs the meat quality of broiler by damaging mitochondrial function, affecting calcium metabolism and leading to ferroptosis
Zuodong Chen, Tong Xing, Jiaolong Li, Lin Zhang, Yun Jiang, Feng Gao (China)
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**Animal Behavior
and Welfare**

- 1628** Effect of dietary metallo-protease and *Bacillus velezensis* CE 100 supplementations on growth performance, footpad dermatitis and manure odor in broiler chickens
Cheol Ju Park, Sang Soo Sun (Korea)