
Animal Breeding and Genetics

- 157** Identification of genes related to intramuscular fat content of pigs using genome-wide association study
Sohyoung Won, Jaehoon Jung, Eungwoo Park, Heebal Kim (Korea)
- 163** Genetic association of swine leukocyte antigen class II haplotypes and body weight in Microminipigs
Tatsuya Matsubara, Masaki Takasu, Noriaki Imaeda, Naohito Nishii, Satoshi Takashima, Takashi Nishimura, Toshiaki Nishimura, Takashi Shiina, Asako Ando, Hitoshi Kitagawa (Japan)
- 167** Survey of genetic structure of geese using novel microsatellite markers
Fang-Yu Lai, Po-An Tu, Shih-Torng Ding, Min-Jung Lin, Shen-Chang Chang, En-Chung Lin, Ling-Ling Lo, Pei-Hwa Wang (Taiwan)
- 180** Identification of polymorphisms in *MITF* and *DCT* genes and their associations with plumage colors in Asian duck breeds
Hasina Sultana, Dongwon Seo, Nu-Ri Choi, Md. Shamsul Alam Bhuiyan, Seung Hwan Lee, Kang-Nyeong Heo, Jun-Heon Lee (Korea)
- 189** Hemicastration induced spermatogenesis-related DNA methylation and gene expression changes in mice testis
Yixin Wang, Long Jin, Jideng Ma, Li Chen, Yuhua Fu, Keren Long, Silu Hu, Yang Song, Dazhi Shang, Qianzi Tang, Xun Wang, Xuwei Li, Mingzhou Li (China)

Ruminant Nutrition and Forage Utilization

- 198** Characterization of culturable yeast species associating with whole crop corn and total mixed ration silage
Huili Wang, Wei Hao, Tingting Ning, Mingli Zheng, Chuncheng Xu (China)
- 208** Tropical plant supplementation effects on the performance and parasite burden of goats
Juan J. Romero, Miguel A. Zarate, Ibukun M. Ogunade, Kathy G. Arriola, Adegbola T. Adesogan (USA)
- 218** Effect of different levels of protein concentrates supplementation on the growth performance, plasma amino acids profile and *mTOR* cascade genes expression in early-weaned yak calves
Q. H. Peng, N. A. Khan, B. Xue, T. H. Yan, Z. S. Wang (China)
- 225** Influence of supplemental canola or soybean oil on milk yield, fatty acid profile and postpartum weight changes in grazing dairy goats
Israel Lerma-Reyes, German D. Mendoza-Martínez, Rolado Rojo-Rubio, Mario Mejia, J. C. García-Lopez, Héctor A. Lee-Rangel (México)
- 230** Influence of barley grain treated with alkaline compounds or organic extracts on *ex vivo* site and extent of digestion of starch
Reza Naseroleslami, Mohsen Danesh Mesgaran, Abdolmansour Tahmasbi, Seyed Alireza Vakili, Seyed Hadi Ebrahimi (Iran)

**Nonruminant
Nutrition and
Feed Processing**

- 237** Newborn traits associated with pre-weaning growth and survival in piglets
Morakot Nuntapaitoon, Ramon Muns, Padet Tummaruk (Thailand)
- 245** Dietary maifanite supplementation did not affect the apparent total tract digestibility of calcium and phosphorus in growing pigs
Li Li Bai, Dong Xu Ming, Shu Ren Dong, Zhong Yue Yang, Wen Hui Wang, Shuai Zhang, Xiang Shu Piao, Ling Liu, Feng Lai Wang (China)
- 252** Evaluation of trace mineral source and preharvest deletion of trace minerals from finishing diets on tissue mineral status in pigs
Y. L. Ma, M. D. Lindemann, S. F. Webb, G. Rentfrow (USA)
- 263** A short-term supranutritional vitamin E supplementation alleviated respiratory alkalosis but did not reduce oxidative stress in heat stressed pigs
Fan Liu, Pietro Celi, Surinder Singh Chauhan, Jeremy James Cottrell, Brian Joseph Leury, Frank Rowland Dunshea (Australia)
- 270** Effects of dietary alfalfa flavonoids on the performance, meat quality and lipid oxidation of growing rabbits
Sihem Dabbou, Laura Gasco, Luca Rotolo, Luisa Pozzo, Jian Ming Tong, Xiao Fang Dong, Patrizia Rubiolo, Achille Schiavone, Francesco Gai (Italy)
- 278** Administration of vitamin D₃ by injection or drinking water alters serum 25-hydroxycholecalciferol concentrations of nursery pigs
Young Dal Jang, Jingyun Ma, Ning Lu, Jina Lim, H. James Monegue, Robert L. Stuart, Merlin D. Lindemann (USA)

Animal Products

- 287** Antioxidant potential of buffalo and cow milk Cheddar cheeses to tackle human colon adenocarcinoma (Caco-2) cells
Nuzhat Huma, Saima Rafiq, Aysha Sameen, Imran Pasha, Muhammad Issa Khan (Pakistan)
- 293** Effects of cooking method and final core-temperature on cooking loss, lipid oxidation, nucleotide-related compounds and aroma volatiles of Hanwoo brisket
Dicky Tri Utama, Ki Ho Baek, Hae Seong Jeong, Seok Ki Yoon, Seon-Tea Joo, Sung Ki Lee (Korea)
- 301** The meat quality, muscle fiber characteristics and fatty acid profile in Jinjiang and F1 Simmental×Jinjiang yellow cattle
Yue Zheng, Shizhi Wang, Peishi Yan (China)