

Animal Breeding and Genetics

- 577** Chi-circ_0009659 modulates goat intramuscular adipocyte differentiation through miR-3431-5p/STEAP4 axis
Xin Li, Hao Zhang, Yong Wang, Yanyan Li, Youli Wang, Yan Xiong, Wei Liu, Yaqiu Lin (China)
- 588** Transcriptome analysis of liver and ileum reveals potential regulation of long non-coding RNA in pigs with divergent feed efficiency
Zhenjian Zhao, Shujie Wang, Kai Wang, Xiang Ji, Dong Chen, Qi Shen, Yang Yu, Shendi Cui, Junge Wang, Ziyang Chen, Guoqing Tang (China)
- 600** Comparative population genomics analysis for chicken body sizes using genome-wide single nucleotide polymorphisms
Sensen Yan, Chaoqun Gao, Kaiyuan Tian, Chengpeng Xiao, Junlai Shi, Xintao Jia, Kejun Wang, Guirong Sun, Donghua Li, Wenting Li, Xiangtao Kang (China)
- 612** Genome-wide association study and subsequent functional analysis reveal regulatory mechanism underlying piglet diarrhea
Dong Chen, Qi Shen, Rui Huang, Zhenjian Zhao, Yang Yu, Shengdi Cui, Junge Wang, Ziyang Chen, Pingxian Wu, Guoqing Tang (China)

Animal Reproduction and Physiology

- 629** Liquid chromatograph-mass spectrometry metabolomics uncovers potential biomarkers of semen cryo-injury in goats
Shun Wu, Guolin Chen, Siyuan Zhan, Linjie Wang, Jiaxue Cao, Jiazhong Guo, Li Li, Hongping Zhang, Lili Niu, Tao Zhong (China)
- 641** Rumen fermentation shifts and microbial dynamics in mid-lactating Holstein dairy cows experiencing heat stress and subsequent recovery periods
Ye Pyae Naing, Seon-Ho Kim, A-Rang Son, Michelle Miguel, Joonpyo Oh, Sang-Suk Lee (Korea)
- 655** Intracellular domain of CATSPER1 could serve as a cytoplasmic platform for redox processes in mammalian sperm
Jingon Kim, Jae Yeon Hwang (Korea)

Ruminant Nutrition and Forage Utilization

- 665** Effects of supplementing rumen-protected rubber seed oil to dairy cattle on feed digestibility and milk production
Pongsatorn Gunun, Norakamol Laorodphan, Warachit Phayom, Walailuck Kaewwongsa, Chatchai Kaewpila, Waroon Khota, Nirawan Gunun (Thailand)
- 673** Using *Azolla* (*Azolla microphylla*) leaf meal and phytonutrient powder on rumen fermentation efficiency and nutrient degradability using *in vitro* technique
Burarat Phesatcha, Kampanat Phesatcha, Thiwakorn Ampapon, Metha Wanapat (Thailand)

**Nonruminant
Nutrition and
Feed Processing**

- 682** Effect of dietary supplementation of rubber seed kernel pellet on feed utilization, rumen fermentation, fatty acid profiles and health status in swamp buffalo
Nirawan Gunun, Chatchai Kaewpila, Waroon Khota, Thachawech Kimprasit, Pongsatorn Gunun (Thailand)

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- 692** Functional remodeling of gut microbiota and liver in laying hens as affected by fasting and refeeding after fasting
Linjian Weng, Jingyi Zhang, Jianling Peng, Meng Ru, Haiping Liang, Qing Wei, Jiming Ruan, Ramlat Ali, Chao Yin, Jianzhen Huang (China)

- 707** Effect of dietary energy levels on productivity, fat deposition, and biochemical parameters of Woorimatdag1 breeder pullets
Hyojun Choo, Chunik Lim, Hyeonkwon Kim, Kangnyeong Heo, Euichul Hong (Korea)

- 717** Influence of host-specific and locally isolated multi-strain probiotics on piglet performance, mortality, inflammatory response, and gut microbiome
Katatikarn Sahatsanon, Panneepa Sivapirunthep, Korawan Sringarm, Chaiwat Arjin, Patipan Hnokaew, Kamon Chaweewan, Chanporn Chaosap (Thailand)

- 728** Impacts of replacing soybean meal with processed soybean meal on intestinal health and growth of nursery pigs challenged with F18+ *Escherichia coli*
Zixiao Deng, Hyunjun Choi, Sung Woo Kim (USA)

Animal Products

- 739** Identification of umami peptides and mechanism of the interaction with umami receptors T1R1/T1R3 in pigeon meat
Yue Zheng, Mengnan Cao, Dengyong Liu (China)

- 752** Effects of fig and pineapple powder on metabolite compounds and health-promoting properties in fermented goat meat sausage
Shine Htet Aung, Rupasinghe Ramesh Nimantha, Young-Sun Choi, Aera Jang, Jun Heon Lee, Ki-Chang Nam (Korea)

**Animal
Biotechnology**

- 765** Guanidinoacetic acid regulated postmortem muscle glycolysis associated with AMPK signaling and protein acetylation
Ning Liu, Bolin Zhang, Shubai Wang, Qingzhen Zhong, Zewei Sun (China)

Animal Health

- 775** Intermittent cold stimulation acclimates broilers to acute cold stress by affecting cardiac lipid metabolism
Yong Zhang, Minghang Chang, Qiang Xue, Hongyu Wang, Yuanyuan Liu, Haidong Wei, Jianhong Li (China)