

Animal Breeding and Genetics

- 2009** *In vitro* analysis of antiviral immune response against avian influenza virus in chicken tracheal epithelial cells
Jubi Heo, Thi Hao Vu, CH Kim, Anh Duc Truong, Yeong Ho Hong (Korea)
- 2021** Investigation of single nucleotide polymorphisms in differentially expressed genes and proteins reveals the genetic basis of skeletal muscle growth differences between Tibetan and Large White pigs
Heli Xiong, Yan Zhang, Zhiyong Zhao (China)
- 2033** Samae Dam chicken: a variety of the Pradu Hang Dam breed revealed from microsatellite genotyping data
Nivit Tanglertpaibul, Trifan Budi, Chien Phuoc Tran Nguyen, Worapong Singchat, Wongsathit Wongloet, Nichakorn Kumnan, Piangjai Chalermwong, Anh Huynh Luu, Kantika Noito, Thitipong Panthum, Pish Wattanadilokchatkun, Anuphong Payopat, Natthamon Klinpetch, Aingorn Chaiyes, Kanithaporn Vangnai, Chotika Yokthongwattana, Chomdao Sinthuvanich, Syed Farhan Ahmad, Narongrit Muangmai, Kyudong Han, Mitsuo Nunome, Akihiko Koga, Prateep Duengkae, Sompon Waipanya, Yoichi Matsuda, Kornsorn Srikulnath (Thailand)
- 2044** Genetic variation analysis of Guanling cattle based on whole-genome resequencing
Longxin Xu, Xin Wang, Junda Wu, Hua Wang, Wenzhang Zhou, Jing Liu, Mengmeng Ni, Kaikai Zhang, Bo Yu, Ruiyi Lin (China)
- 2054** Genome-wide association study comparison analysis based on Hanwoo full-sib family
Ji-Yeong Kim, Eun-Ho Kim, Ho-Chan Kang, Cheol-Hyun Myung, Il-Keun Kong, Hyun-Tae Lim (Korea)
- 2066** N⁶-methyladenosine (m⁶A)-circHECA from secondary hair follicle of cashmere goats: identification, regulatory network and expression regulated potentially by methylation of its host gene promoter
Jincheng Shen, Taiyu Hui, Man Bai, Yixing Fan, Yubo Zhu, Qi Zhang, Ruqing Xu, Jialiang Zhang, Zeying Wang, Wenxin Zheng, Wenlin Bai (China)

Ruminant Nutrition and Forage Utilization

- 2081** Effects of acute and chronic heat stress on the rumen microbiome in dairy goats
Min Li, Lian-Bin Xu, Chen Zhang, Pei-Hua Zhang, Sha Tao, Hong-Yun Liu (China)
- 2091** Forage quality and fermentation dynamics of silages of Italian ryegrass (*Lolium multiflorum* Lam.) wilted for varying periods
Yan Fen Li, Li Li Wang, Young Sang Yu, Xaysana Panyavong, Li Zhuang Wu, Jong Geun Kim (Korea)
- 2101** Dietary Mulberry leaf 1-deoxynijirimycin supplementation shortens villus height and improves intestinal barrier in fattening rabbits
Shaocong Li, Tao Li, Zijie Jiang, Wenyu Hou, Qirui Hou, Boris Ramos Serrano, Adileidys Ruiz Barcenas, Yuhua Wang, Weiguo Zhao (China)

**Nonruminant
Nutrition and
Feed Processing**

- 2113** Effect of dietary β -mannanase supplementation on growth performance, intestinal morphology, digesta viscosity, and nutrient utilization in broiler chickens: Meta-analysis and meta-regression
Hyun Woo Kim, Chan Ho Kwon, Ji Hye Lee, Min Sung Kang, Dong Yong Kil (Korea)
- 2126** Storage causes protein oxidation of soybean meal and affects antioxidant status, digestive performance and meat quality of broilers
Peng Wang, Juanjuan Song, Mingfang Du, Chao Wen, Yanmin Zhou (China)
- 2137** Effects of benzoic acid in pig diets on nitrogen utilization, urinary pH, slurry pH, and odorous compounds
Seung Bin Yoo, Yoon Soo Song, Siyoung Seo, Sung Woo Kim, Beob Gyun Kim (Korea)
- 2145** Dietary supplementation of protease and organic acid in poultry by-product meal-based diet in broilers
Muhammad Ahsan Yaseen, Waqar Iqbal, Shaikat Ali Bhatti, Muhammad Saif ur Rehman, Asghar Subhani, Muhammad Shoaib, Muhammad Aziz ur Rahman, Muhammad Umar Yaqoob (China)
- 2155** Inclusion of *Lacticaseibacillus paracasei* NSMJ15 in broiler diets induces changes in jejunal immune cell population and cecal microbiota
June Hyeok Yoon, Sang Seok Joo, Su Hyun An, Byeong Cheol Ban, Moongyeong Jung, Woonhak Ji, Ji Young Jung, Myunghoo Kim, Changsu Kong (Korea)
-

Animal Products

- 2167** Effects of black soldier fly larvae (*Hermetia illucens* L.) as feed supplements on muscle nutrient composition, meat quality, and antioxidant capacity in Qianbei goat
Shengyong Lu, Siwaporn Paengkoum, Shengchang Chen, Yong Long, Xinran Niu, Sorasak Thongpea, Nittaya Taethaisong, Weerada Meethip, Pramote Paengkoum (Thailand)
-

Animal Health

- 2178** The T-cell receptor β chain CDR3 insights of bovine liver immune repertoire under heat stress
Linhu Hui, Fengli Wu, Yuanyuan Xu, Guangjun Yang, Qiaorong Luo, Yangyang Li, Long Ma, Xincheng Yao, Jun Li (China)
-

**Environment and
Management**

- 2189** Proposing a strategy based on body-thermal status to improve the welfare of heat-stressed and water-deprived goats (*Capra hircus*)
Emad M. Samara, Mohammed A. Al-Badwi, Khalid A. Abdoun, Ahmed A. Al-Haidary (Saudi Arabia)
-