
Review Paper

- 1253** Semen evaluation: methodological advancements in sperm quality-specific fertility assessment — A review
Bereket Molla Tanga, Ahmad Yar Qamar, Sanan Raza, Seonggyu Bang, Xun Fang, Kiyoung Yoon, Jongki Cho (Korea)
- 1271** Multi-omics integration strategies for animal epigenetic studies — A review
Do-Young Kim, Jun-Mo Kim (Korea)
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Animal Breeding and Genetics

- 1283** Composite genotypes of progestogen-associated endometrial protein gene and their association with composition and quality of dairy cattle milk
Magdalena Kolenda, Beata Sitkowska, Dariusz Kamola, Barry D. Lambert (Poland)
- 1290** Integrated transcriptomic analysis on small yellow follicles reveals that sosondowah ankyrin repeat domain family member A inhibits chicken follicle selection
Conghao Zhong, Zemin Liu, Xibo Qiao, Li Kang, Yi Sun, Yunliang Jiang (China)
- 1303** New composite traits for joint improvement of milk and fertility trait in Holstein dairy cow
Heydar Ghiasi, Dariusz Piwczynski, Beata Sitkowska, Oscar González-Recio (Poland)
- 1309** Profiling of skeletal muscle tissue for long non-coding RNAs related to muscle metabolism in the QingYu pig at the growth inflection point
Jia Luo, Linyuan Shen, Mailin Gan, Anan Jiang, Lei Chen, Jideng Ma, Long Jin, Yihui Liu, Guoqing Tang, Yanzhi Jiang, Mingzhou Li, Xuwei Li, Shunhua Zhang, Li Zhu (China)
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Animal Reproduction and Physiology

- 1321** Isolation and characterization of cultured chicken oviduct epithelial cells and *in vitro* validation of constructed ovalbumin promoter in these cells
Hyeon Yang, Bo Ram Lee, Hwi-Cheul Lee, Sun Keun Jung, Ji-Youn Kim, Jingu No, Sureshkumar Shanmugam, Yong Jin Jo, Haesun Lee, Seongsoo Hwang, Sung June Byun (Korea)
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Ruminant Nutrition and Forage Utilization

- 1331** Broken rice in a fermented total mixed ration improves carcass and marbling quality in fattened beef cattle
Salisa Kotupan, Kritapon Sommart (Thailand)

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Nonruminant Nutrition and Feed Processing

- 1342** Effect of dietary supplementation of β -mannanase on growth performance, carcass characteristics, excreta microflora, blood constituents, and nutrient ileal digestibility in broiler chickens
Mohsen Mohammadigheisar, Victoria L. Shouldice, Balamuralikrishnan Balasubramanian, In Ho Kim (Korea)
- 1350** The strategies for the supplementation of vitamins and trace minerals in pig production: surveying major producers in China
Pan Yang, Hua Kai Wang, Long Xian Li, Yong Xi Ma (China)
- 1365** Synergistic effect of exogenous multi-enzyme and phytase on growth performance, nutrients digestibility, blood metabolites, intestinal microflora and morphology in broilers fed corn-wheat-soybean meal diets
MinJu Kim, Santosh Laxman Ingale, Abdolreza Hosseindoust, YoHan Choi, KwangYeol Kim, ByungJo Chae (Korea)

Animal Products

- 1375** Influence of freeze-thawed cycles on pork quality
Tiprawee Tippala, Nunyarat Koomkrong, Autchara Kayan (Thailand)
- 1382** Effect of myoglobin, hemin, and ferric iron on quality of chicken breast meat
Muhan Zhang, Weili Yan, Daoying Wang, Weimin Xu (China)

Animal Biotechnology

- 1392** Growth factors improve the proliferation of Jeju black pig muscle cells by regulating myogenic differentiation 1 and growth-related genes
Jinryong Park, Jeongeun Lee, Ki-Duk Song, Sung-Jo Kim, Dae Cheol Kim, Sang Cheol Lee, Young June Son, Hyun Woo Choi, Kwanseob Shim (Korea)

Animal Health

- 1403** Zearalenone regulates key factors of the Kelch-like erythroid cell-derived protein with CNC homology-associated protein 1–nuclear factor erythroid 2-related factor 2 signaling pathway in duodenum of post-weaning gilts
Qun Cheng, Shu zhen Jiang, Li bo Huang, Wei ren Yang, Zai bin Yang (China)

Environment and Management

- 1415** Laser methane detector-based quantification of methane emissions from indoor-fed Fogera dairy cows
Nobuyuki Kobayashi, Fujiang Hou, Atsushi Tsunekawa, Tianhai Yan, Firew Tegegne, Asaminew Tassew, Yeshambel Mekuriaw, Shigdaf Mekuriaw, Beyadgign Hunegnaw, Wondimeneh Mekonnen, Toshiyoshi Ichinohe (Japan)