
Review Paper

- 1699** Bovine mastitis: risk factors, therapeutic strategies, and alternative treatments
— A review
Wei Nee Cheng, Sung Gu Han (Korea)
- 1714** MicroRNAs regulate granulosa cells apoptosis and follicular development
— A review
Zhuandi Gong, Juan Yang, Shengju Bai, Suocheng Wei (China)

Animal Breeding and Genetics

- 1725** Association of UDP-galactose-4-epimerase with milk protein concentration in the Chinese Holstein population
Cong Li, Wentao Cai, Shuli Liu, Chenghao Zhou, Mingyue Cao, Hongwei Yin, Dongxiao Sun, Shengli Zhang, Juan J. Looor (China)
- 1732** Genetic diversity and population structure of indigenous chicken of Bangladesh using microsatellite markers
Muhammad Abdur Rashid, Prabuddha Manjula, Shakila Faruque, A. K. Fazlul Haque Bhuiyan, Dongwon Seo, Jahangir Alam, Jun Heon Lee, Mohammad Shamsul Alam Bhuiyan (Korea)
- 1741** Genetic parameters for milk yield in imported Jersey and Jersey-Friesian cows using daily milk records in Sri Lanka
Amali Malshani Samaraweera, Vinzent Boerner, Hewa Waduge Cyril, Julius van der Werf, Susanne Hermesch (Australia)
- 1755** Association of the thyroid hormone responsive spot 14 alpha gene with growth-related traits in Korean native chicken
Muhammad Cahyadi, Hee-Bok Park, Dong Won Seo, Shil Jin, Nuri Choi, Kang Nyeong Heo, Bo Seok Kang, Cheorun Jo, Jun Heon Lee (Korea)

Animal Reproduction and Physiology

- 1763** Effect of L-carnitine on sperm quality during liquid storage of boar semen
Kang Yang, Na Wang, Hai-Tao Guo, Jing-Ran Wang, Huan-Huan Sun, Liang-Zhen Sun, Shun-Li Yue, Jia-Bo Zhou (China)

Ruminant Nutrition and Forage Utilization

- 1770** Assessing metabolic properties of dairy cows fed low quality straws by integrative arterial and venous metabolomics
Bing Wang, Zhu Yu, Jianxin Liu (China)
- 1779** Effect of ruminal administration of soy sauce oil on rumen fermentation, milk production and blood parameters in dairy cows
Daiji Konno, Masanobu Takahashi, Ikuo Osaka, Takenori Orihashi, Kiyotaka Sakai, Kenji Sera, Yoshiaki Obara, Yasuo Kobayashi (Japan)

**Nonruminant
Nutrition and
Feed Processing**

- 1787** Physicochemical properties and energy content of yellow dent corn from different climatic origins in growing pigs
Wenxuan Dong, Juntao Li, Zhongchao Li, Shuo Zhang, Xiaozhen Li, Chundi Yang, Ling Liu, Shuai Zhang (China)
- 1797** Effects of multi-strain probiotic supplementation on intestinal microbiota, tight junctions, and inflammation in young broiler chickens challenged with *Salmonella enterica* subsp. *enterica*
Chi Huan Chang, Po Yun Teng, Tzu Tai Lee, Bi Yu (Taiwan)
- 1809** Effects of inclusion level and amino acid supplementation on energy values of soybean oil determined with difference or regression methods in growing pigs
Qiuyun Wang, Chengfei Huang, Mei Liu, Ling Liu, Shuai Zhang (China)
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Animal Products

- 1817** Effect of genotypes on macronutrients and antioxidant capacity of chicken breast meat
Phatthawin Lengkidworraphiphat, Rawiwan Wongpoomchai, Sirinya Taya, Sanchai Jaturasitha (Thailand)
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**Animal
Biotechnology**

- 1824** Coordinated alteration of mRNA-microRNA transcriptomes associated with exosomes and fatty acid metabolism in adipose tissue and skeletal muscle in grazing cattle
Susumu Muroya, Hideki Ogasawara, Kana Nohara, Mika Oe, Koichi Ojima, Masayuki Hojito (Japan)
- 1837** Transdifferentiation of α -1,3-galactosyltransferase knockout pig bone marrow derived mesenchymal stem cells into pancreatic β -like cells by microenvironment modulation
Imran Ullah, Ran Lee, Keon Bong Oh, Seongsoo Hwang, Youngim Kim, Tai-Young Hur, Sun A Ock (Korea)
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**Animal Behavior
and Welfare**

- 1848** Behaviour of twin- and triplet-born lambs and their dam 3 to 18 hours after birth is not a useful predictor of lamb survival to weaning
G. V. Gronqvist, R. E. Hickson, P. R. Kenyon, S. T. Morris, K. J. Stafford, R. A. Corner-Thomas (New Zealand)
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**Environment and
Management**

- 1858** An investigation of seasonal variations in the microbiota of milk, feces, bedding, and airborne dust
Thuong Thi Nguyen, Haoming Wu, Naoki Nishino (Japan)
- 1866** Effects of surface materials of self-draining beds on cattle behavior in a temperate climate
Ping Liu, Lulu Guo, Fulan Zhang, Lin Li, Huaming Mao, Zhaobing Gu (China)