
Review Paper

- 405** Impact of livestock industry on climate change: Case Study in South Korea — A review
Sun Jin Hur, Jae Min Kim, Dong Gyun Yim, Yohan Yoon, Sang Suk Lee, Cheorun Jo (Korea)
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Animal Breeding and Genetics

- 419** Evaluation of models for estimation of genetic parameters for post-weaning body measurements and their association with yearling weight in Nellore sheep
Satish Kumar Illa, Gangaraju Gollamoori, Sapna Nath (India)
- 428** A comparison of five sets of overlapping and non-overlapping sliding windows for semen production traits in the Thai multibreed dairy population
Mattaneeya Sarakul, Mauricio A. Elzo, Skorn Koonawootrittriron, Thanathip Suwanasopee, Danai Jattawa, Thawee Laodim (Thailand)
- 437** CRISPR/Cas9-mediated knockout of the Vanin-1 gene in the Leghorn Male Hepatoma cell line and its effects on lipid metabolism
Lu Xu, Zhongliang Wang, Shihao Liu, Zhiheng Wei, Jianfeng Yu, Jun Li, Jie Li, Wen Yao, Zhiliang Gu (China)
- 451** Genome-wide association study to reveal new candidate genes using single-step approaches for productive traits of Yorkshire pig in Korea
Jun Park (Korea)
- 461** Identification of genomic diversity and selection signatures in Luxi cattle using whole-genome sequencing data
Mingyue Hu, Lulu Shi, Wenfeng Yi, Feng Li, Shouqing Yan (China)
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Animal Reproduction and Physiology

- 471** Ten-eleven translocation 1 mediating DNA demethylation regulates the proliferation of chicken primordial germ cells through the activation of Wnt4/ β -catenin signaling pathway
Yinglin Lu, Ming Li, Heng Cao, Jing Zhou, Fan Li, Debing Yu, Minli Yu (China)
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Ruminant Nutrition and Forage Utilization

- 481** *In vitro* gas and methane production of some common feedstuffs used for dairy rations in Vietnam and Thailand
N. T. D. Huyen, J. Th. Schonewille, W. F. Pellikaan, N. X. Trach, W. H. Hendriks (The Netherlands)

**Nonruminant
Nutrition and
Feed Processing**

- 492** Amino acid supplementation during the adaptation period did not affect the standardized ileal digestibility of amino acids in corn and soybean meal fed to pigs
Hyunjun Choi, Sun Jong You, Beob Gyun Kim (Korea)
- 500** Effect of body weight at photostimulation on productive performance and welfare aspects of commercial layers
Fazal Raziq, Jibran Hussain, Sohail Ahmad, Muhammad Asif Hussain, Muhammad Tahir Khan, Assad Ullah, Muhammad Qumar, Fazal Wadood, Gull-e-Faran (Pakistan)
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Animal Products

- 509** Alfalfa xenomiR-162 targets G protein subunit gamma 11 to regulate milk protein synthesis in bovine mammary epithelial cells
Guizhi Meng, Hongjuan Duan, Jingying Jia, Baobao Liu, Yun Ma, Xiaoyan Cai (China)
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Animal Health

- 522** Identification and validation of putative biomarkers by in silico analysis, mRNA expression and oxidative stress indicators for negative energy balance in buffaloes during transition period
Savleen Kour, Neelesh Sharma, Praveen Kumar Guttula, Mukesh Kumar Gupta, Marcos Veiga dos Santos, Goran Bacic, Nino Macesic, Anand Kumar Pathak, Young-Ok Son (Korea)
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**Animal Behavior
and Welfare**

- 536** Effects of grain-based pecking blocks on productivity and welfare indicators in commercial broiler chickens
Byung-Yeon Kwon, Hyun-Gwan Lee, Yong-Sung Jeon, Ju-Yong Song, Jina Park, Sang-Ho Kim, Dong-Wook Kim, Kyung-Woo Lee (Korea)
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**Environment and
Management**

- 547** Association of farmers' knowledge, attitude and practices with bovine brucellosis seroprevalence in Myanmar
Su Su Hlaing, Satoko Kubota, Kohei Makita, Ye Tun Win, Hnin Thidar Myint, Hiroichi Kono (Japan)