

Editorial

- 1 — Editorial — Celebrating the 30th Anniversary of the *Asian-Australasian Journal of Animal Sciences*
Jong K. Ha (Korea)

Animal Breeding and Genetics

- 3 Characterization and functional inferences of a genome-wide DNA methylation profile in the loin (*longissimus dorsi*) muscle of swine
Woonsu Kim, Hyesun Park, Kang-Seok Seo, Seongwon Seo (Korea)
- 13 Genome re-sequencing to identify single nucleotide polymorphism markers for muscle color traits in broiler chickens
H. R. Kong, N. B. Anthony, K. C. Rowland, B. Khatri, B. C. Kong (USA)
- 19 Effects of selection index coefficients that ignore reliability on economic weights and selection responses during practical selection
Kenji Togashi, Kazunori Adachi, Takanori Yasumori, Kazuhito Kurogi, Takayoshi Nozaki, Akio Onogi, Yamato Atagi, Tsutomu Takahashi (Japan)
- 26 Estimation of heritability and genetic correlation of body weight gain and growth curve parameters in Korean native chicken
Prabuddha Manjula, Hee-Bok Park, Dongwon Seo, Nuri Choi, Shil Jin, Sung Jin Ahn, Kang Nyeong Heo, Bo Seok Kang, Jun-Heon Lee (Korea)

Animal Reproduction and Physiology

- 32 Effects of zearalenone on the localization and expression of the growth hormone receptor gene in the uteri of post-weaning piglets
Min Zhou, Li Jie Yang, Wei Ren Yang, Li Bo Huang, Xue Mei Zhou, Shu Zhen Jiang, Zai Bin Yang (China)

Ruminant Nutrition and Forage Utilization

- 40 Supplementing *Rhodobacter sphaeroides* in the diet of lactating Holstein cows may naturally produce coenzyme Q10-enriched milk
Gui-Seck Bae, Ahreum Choi, Joon Mo Yeo, Jong Nam Kim, Jaeyong Song, Eun Joong Kim, Moon Baek Chang (Korea)
- 47 Blood amino acids profile responding to heat stress in dairy cows
Jiang Guo, Shengtao Gao, Suyu Quan, Yangdong Zhang, Dengpan Bu, Jiaqi Wang (China)
- 54 Effect of Rhodophyta extracts on *in vitro* ruminal fermentation characteristics, methanogenesis and microbial populations
Shin Ja Lee, Nyeon Hak Shin, Jin Suk Jeong, Eun Tae Kim, Su Kyung Lee, Sung Sill Lee (Korea)
- 63 Isolation and characterization of a novel gossypol-degrading bacteria *Bacillus subtilis* strain Rumen Bacillus Subtilis
Yunhua Zhang, Zhengyou Zhang, Li Dai, Ying Liu, Maoji Cheng, Lijuan Chen (China)
- 71 Effects of *Gelidium amansii* extracts on *in vitro* ruminal fermentation characteristics, methanogenesis, and microbial populations
Shin Ja Lee, Nyeon Hak Shin, Jin Suk Jeong, Eun Tae Kim, Su Kyung Lee, Il Dong Lee, Sung Sill Lee (Korea)

Nonruminant Nutrition and Feed Processing

- 80** Effect of corn grain particle size on ruminal fermentation and blood metabolites of Holstein steers fed total mixed ration
Do Hyung Kim, Seong Ho Choi, Sung Kwon Park, Sung Sill Lee, Chang Weon Choi (Korea)
-
- 86** Effects of dietary supplementation with detoxified *Rhus verniciflua* sap on egg production, yolk lipid and intestinal microflora in laying hens
Byoung-Ki An, Je-Hun Kim, Lan Zheng, Byung-Hern Moon, Kyung-Woo Lee (Korea)
- 91** Effects of feeding corn naturally contaminated with aflatoxin on growth performance, apparent ileal digestibility, serum hormones levels and gene expression of Na⁺, K⁺-ATPase in ducklings
Farzana Abbasi, Jingbo Liu, Hongfu Zhang, Xiaoyun Shen, Xuegang Luo (China)
- 98** Effects of processing, particle size and moisturizing of sorghum-based feeds on pellet quality and broiler production
Patrícia Garcia da Silva, Luana Martins Schaly Oliveira, Nayanne Rodrigues de Oliveira, Fábio Ataides de Moura Júnior, Maura Regina Sousa Silva, Deibity Alves Cordeiro, Cibele Silva Minafra, Fabiana Ramos dos Santos (Brazil)
- 106** Effects of dietary valine:lysine ratio on the performance, amino acid composition of tissues and mRNA expression of genes involved in branched-chain amino acid metabolism of weaned piglets
Ye Tong Xu, Xiao Kang Ma, Chun Lin Wang, Ming Feng Yuan, Xiang Shu Piao (China)
- 116** Effects of inclusion level and adaptation period on nutrient digestibility and digestible energy of wheat bran in growing-finishing pigs
Jinbiao Zhao, Shuai Zhang, Fei Xie, Defa Li, Chengfei Huang (China)
-

Animal Products

- 123** Use of alternative curing salts for processing salamis
Dong-Gyun Yim, Ku-Young Chung, Cheorun Jo, Ki-Chang Nam (Korea)
- 129** Quality of steak restructured from beef trimmings containing microbial transglutaminase and impacted by freezing and grading by fat level
Supaluk Sorapukdee, Pussadee Tangwatcharin (Thailand)
-

Animal Biotechnology

- 138** Effects of deoxynivalenol- and zearalenone-contaminated feed on the gene expression profiles in the kidneys of piglets
Kondreddy Eswar Reddy, Woong Lee, Jin young Jeong, Yookyung Lee, Hyun-Jeong Lee, Min Seok Kim, Dong-Woon Kim, Dongjo Yu, Ara Cho, Young Kyoon Oh, Sung Dae Lee (Korea)
-

Animal Behavior and Welfare

- 149** Effects of four dim vs high intensity red color light regimens on growth performance and welfare of broilers
D. Senaratna, T. S. Samarakone, W. W. D. A. Gunawardena (Sri Lanka)