Contents



Review Paper

755 Farm to abattoir conditions, animal factors and their subsequent effects on cattle behavioural responses and beef quality — A review Yonela Zifikile Njisane, Voster Muchenje (South Africa)

Animal Breeding and Genetics

765 Detection of superior genotype of fatty acid synthase in Korean native cattle by an environment-adjusted statistical model

Jea-Young Lee, Dong-Yep Oh, Hyun-Ji Kim, Gab-Sue Jang, Seung-Uk Lee (Korea)

Animal Reproduction and Physiology

773 Transcriptome analysis of the livers of ducklings hatched normally and with assistance

Yali Liu, Shishan He, Tao Zeng, Xue Du, Junda Shen, Ayong Zhao, Lizhi Lu (China)

Expression of *Egr3* in mouse gonads and its localization and function in oocytes

Hyejin Shin, Dong-Won Seol, Minyeong Nam, Haengseok Song, Dong Ryul Lee, Hyunjung Jade Lim (Korea)

Ruminant Nutrition and Forage Utilization

- 788 Silage preparation and fermentation quality of natural grasses treated with lactic acid bacteria and cellulase in meadow steppe and typical steppe Meiling Hou, Ge Gentu, Tingyu Liu, Yushan Jia, Yimin Cai (China)
- 797 Intake, digestibility, and rumen and metabolic characteristics of cattle fed low-quality tropical forage and supplemented with nitrogen and different levels of starch

Marcia de Oliveira Franco, Edenio Detmann, Sebastião de Campos Valadares Filho, Erick Darlisson Batista, Luana Marta de Almeida Rufino, Marcília Medrado Barbosa, Alexandre Ribeiro Lopes (Brazil)

804 Effects of sodium diacetate on the fermentation profile, chemical composition and aerobic stability of alfalfa silage

Vice Vice Aiver Wee Score T. Deste Jian Weeg Tee Shee (Chine)

XianJun Yuan, AiYou Wen, Seare T. Desta, Jian Wang, Tao Shao (China)

- 811 Effects of fungal (*Lentinussajor-caju*) treated oil palm frond on performance and carcass characteristics in finishing goats
 Pin Chanjula, Vasun Petcharat, Anusorn Cherdthong (Thailand)
- 819 Characteristics of isolated lactic acid bacteria and their effects on the silage quality

Siran Wang, Xianjun Yuan, Zhihao Dong, Junfeng Li, Gang Guo, Yunfeng Bai, Junyu Zhang, Tao Shao (China)

Nonruminant Nutrition and Feed Processing

828 Effects of different methionine sources on production and reproduction performance, egg quality and serum biochemical indices of broiler breeders Xue Xiao, Yongxia Wang, Weilong Liu, Tingting Ju, Xiuan Zhan (China)

Vol 30 No 6 · June 2017

- 834 Dietary fat preference and effects on performance of piglets at weaning Ruey-Chee Weng (Taiwan)
- 843 Comparative effects of corn-based diet and phase-fed cassava-based diet on growth rate, carcass characteristics and lipid profile of meat-type ducks Saowalak Saree, Chaiyapoom Bunchasak, Choawit Rakangtong, Jessada Sakdee, Nuttawut Krutthai, Theerawit Poeikhampha (Thailand)
- 849 Estimation of the net energy requirement for maintenance in broilers Wei Liu, Chang Hua Lin, Zheng Ke Wu, Guo Hua Liu, Hai Jie Yan, Hua Ming Yang, Hui Yi Cai (China)

Animal Products

857 Histone acetyltransferase inhibitors antagonize AMP-activated protein kinase in postmortem glycolysis

Qiong Li, Zhongwen Li, Aihua Lou, Zhenyu Wang, Dequan Zhang, Qingwu W. Shen (China)

865 Carcass characteristics and meat quality of lambs that are fed diets with palm kernel cake

Rozilda da Conceição dos Santos, Daiany Iris Gomes, Kaliandra Souza Alves, Rafael Mezzomo, Luis Rennan Sampaio Oliveira, Darley Oliveira Cutrim, Samara Bianca Moraes Sacramento, Elizanne de Moura Lima, Francisco Fernando Ramos de Carvalho (Brazil)

872 Influence of rendering methods on yield and quality of chicken fat recovered from broiler skin

Liang-Kun Lin, Fa-Jui Tan (Taiwan)

Animal Biotechnology

878 Mammary alveolar cell as *in vitro* evaluation system for casein gene expression involved in glucose level

Young Tae Heo, Woo Tae Ha, Ran Lee, Won-Young Lee, Ha Yeon Jeong, Kyu Chan Hwang, Hyuk Song (Korea)

886 Efficient transgene expression system using a cumate-inducible promoter and Cre-loxP recombination in avian cells

Tae Sub Park, Si Won Kim, Jeong Hyo Lee (Korea)

Animal Health

893 Differentially expressed serum proteins associated with calcium regulation and hypocalcemia in dairy cows

Shi Shu, Yunlong Bai, Gang Wang, Xinhuan Xiao, Ziling Fan, Jiang Zhang, Chang Zhao, Yang Zhao, Cheng Xia, Hongyou Zhang (China)

Animal Behavior and Welfare

902 Behaviors and body weight of suckling piglets in different social environments Joon-Ki Hong, Ki-Hyun Kim, Hyun-Su Hwang, Jae-Kang Lee, Tae-Kyung Eom, Shin-Jae Rhim (Korea)