Contents



Review Paper

299 Antioxidant capacity of phytochemicals and their potential effects on oxidative status in animals — A review M. T. Lee, W. C. Lin, B. Yu, T. T. Lee (Taiwan)

Animal Breeding and Genetics

Genome-association analysis of Korean Holstein milk traits using genomic estimated breeding value

Donghyun Shin, Chul Lee, Kyoung-Do Park, Heebal Kim, Kwang-hyeon Cho (Korea)

- 320 Genetic correlations between first parity and accumulated second to last parity reproduction traits as selection aids to improve sow lifetime productivity Udomsak Noppibool, Mauricio A. Elzo, Skorn Koonawootrittriron, Thanathip Suwanasopee (Thailand)
- Molecular characterization and expression pattern of a novel Keratinassociated protein 11.1 gene in the Liaoning cashmere goat (*Capra hircus*) Mei Jin, Qian Cao, Ruilong Wang, Jun Piao, Fengqin Zhao, Jing'ai Piao (China)
- 338 Identification and characterization of novel single nucleotide polymorphism markers for fat deposition in muscle tissue of pigs using amplified fragment length polymorphism

Pantaporn Supakankul, Tanavadee Kumchoo, Supamit Mekchay (Thailand)

Animal Reproduction and Physiology

347 Effects of selenium-rich yeast supplementation on the plasma progesterone levels of postpartum dairy cows
Hachiro Kamada (Japan)

Ruminant Nutrition and Forage Utilization

- Evaluation of the nutritional value of locally produced forage in Korea using chemical analysis and *in vitro* ruminal fermentation Kwang Seok Ki, Su Bum Park, Dong Hyun Lim, Seongwon Seo (Korea)
- 363 Performance and milk composition of dairy goats as affected by the dietary level of stoned olive cake silages
 Gurhan Keles, Filiz Yildiz-Akgul, Veli Kocaman (Turkey)
- 370 Effects of a specific blend of essential oils on apparent nutrient digestion, rumen fermentation and rumen microbial populations in sheep fed a 50:50 alfalfa hay:concentrate diet

 N. Khateri, O. Azizi, H. Jahani-Azizabadi (Iran)
- 379 Effect of feeding tamarind kernel powder extract residue on digestibility, nitrogen availability and ruminal fermentation in wethers
 Lin Wang, Takashi Nakanishi, Yoshiaki Sato, Kazato Oishi, Hiroyuki Hirooka,
 Kei Takahashi, Hajime Kumagai (Japan)
- 386 Effects of dietary protein level on growth performance and nitrogen excretion of dairy heifers
 Bin Zhang, Chong Wang, He Liu, Jianxin Liu, Hongyun Liu (China)

Vol 30 No 3 · March 2017

392 Effects of purified lignin on *in vitro* rumen metabolism and growth performance of feedlot cattle

Yuxi Wang, Tim A. McAllister, Jairo H. Lora (Canada)

Nonruminant Nutrition and Feed Processing

- 400 Effect of dietary protein sources on production performance, egg quality, and plasma parameters of laying hens
 Xiaocui Wang, Haijun Zhang, Hao Wang, Jing Wang, Shugeng Wu, Guanghai Qi
 (China)
- 410 Sunflower cake with or without enzymatic complex for broiler chickens feeding Eveline Berwanger, Ricardo Vianna Nunes, Tiago Junior Pasquetti, Alice Eiko Murakami, Taciana Maria Moraes de Oliveira, Douglas Fernando Bayerle, Rafael Frank (Brazil)
- 417 Effects of conjugated linoleic acid on the performance of laying hens, lipid composition of egg yolk, egg flavor, and serum components

 Xuelan Liu, Yan Zhang, Peipei Yan, Tianhong Shi, Xiangfa Wei (China)

Animal Products

- 424 High pressure processing for dark-firm-dry beef: effect on physical properties and oxidative deterioration during refrigerated storage Dicky Tri Utama, Seung Gyu Lee, Ki Ho Baek, Woon Si Chung, In Ae Chung, Jung Tae Jeon, Sung Ki Lee (Korea)
- 432 Effects of low NaNO₂ and NaCl concentrations on *Listeria monocytogenes* growth in emulsion-type sausage
 Jeeyeon Lee, Eunji Gwak, Heeyoung Lee, Jimyeong Ha, Soomin Lee, Sejeong Kim,
 Mi-Hwa Oh, Beom-Young Park, Kyoung-Hee Choi, Yohan Yoon (Korea)

Animal Biotechnology

439 Alpha-1,3-galactosyltransferase-deficient miniature pigs produced by serial cloning using neonatal skin fibroblasts with loss of heterozygosity Young June Kim, Kwang Sung Ahn, Minjeong Kim, Min Ju Kim, Jin Seop Ahn, Junghyun Ryu, Soon Young Heo, Sang-Min Park, Jee Hyun Kang, You Jung Choi, Hosup Shim (Korea)

446 AAAP NEWS