
Review Paper

- 679** The effects of plant extracts on lipid metabolism of chickens — A review
Xuedong Ding, Ilias Giannenas, Ioannis Skoufos, Jing Wang, Weiyun Zhu (China)
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Animal Breeding and Genetics

- 692** Assessment of population structure and genetic diversity of German Angora rabbit through pedigree analysis
Abdul Rahim, K. S. Rajaravindra, Om Hari Chaturvedi, S. R. Sharma (India)
- 704** Expression of heat shock protein genes in Simmental cattle exposed to heat stress
Luis Felipe Guzmán, Guillermo Martínez-Velázquez, Fernando Villaseñor-González, Vicente Eliezer Vega-Murillo, José Antonio Palacios-Fránquez, Ángel Ríos-Utrera, Moisés Montaña-Bermúdez (Mexico)
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Animal Reproduction and Physiology

- 710** Protodioscin protects porcine oocytes against H₂O₂-induced oxidative stress during *in vitro* maturation
So-Hee Kim, Seung-Eun Lee, Jae-Wook Yoon, Hyo-Jin Park, Seung-Hwan Oh, Do-Geon Lee, Da-Bin Pyeon, Eun-Young Kim, Se-Pill Park (Korea)
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Ruminant Nutrition and Forage Utilization

- 720** Antifungal and carboxylesterase-producing bacteria applied into corn silage still affected the fermented total mixed ration
Dimas Hand Vidya Paradhita, Myeong Ji Seo, Seung Min Jeong, Young Ho Joo, Seong Shin Lee, Pil Nam Seong, Hyuk Jun Lee, Sam Churl Kim (Korea)
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Nonruminant Nutrition and Feed Processing

- 731** Evaluation of light-emitting diode colors and intensities on slaughter performance, meat quality and serum antioxidant capacity in caged broilers
Zichao Tan, Chuanfeng Zhou, Xueping Shi, Lihua Wang, Shubai Wang (China)
- 740** Available phosphorus levels modulate gene expression related to intestinal calcium and phosphorus absorption and bone parameters differently in gilts and barrows
Julia Christiane Vötterl, Jutamat Klinsoda, Simone Koger, Isabel Hennig-Pauka, Doris Verhovsek, Barbara U. Metzler-Zebeli (Austria)
- 753** Effects of essential oil coated with glycerol monolaurate on growth performance, intestinal morphology, and serum profiles in weaned piglets
Yanan Wang, Juntao Li, Huakai Wang, Yihai Mi, Yongqiang Xue, Jiaan Li, Yongxi Ma (China)
- 761** Effects of a functional fatty acid blend on growth performance, intestinal morphology, and serum profiles in weaned piglets
Huakai Wang, Yanan Wang, Yu Zhang, Juntao Li, Yihai Mi, Yongqiang Xue, Jiaan Li, Yongxi Ma (China)

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- 768** Chemical composition of copra, palm kernel, and cashew co-products from South-East Asia and almond hulls from Australia
Natalia S. Fanelli, Leidy J. Torres-Mendoza, Jerubella J. Abelilla, Hans H. Stein (USA)
- 776** Inclusion of dietary nontoxic sulfur on growth performance, immune response, sulfur amino acid content and meat characteristics in growing-finishing pigs
Hae Won Shin, Xing Hao Jin, Min Jin Gim, Yoo Yong Kim (Korea)
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Animal Products

- 785** Production system influences color stability and lipid oxidation in *gluteus medius* muscle
Ana Paula Amaral de Alcântara Salim, Micheli da Silva Ferreira, Maria Lucia Guerra Monteiro, Loíse Caroline Santos de Lima, Isabelle Trezze Marins Magalhães, Carlos Adam Conte-Júnior, Sérgio Borges Mano (Brazil)
- 797** Mechanism of improving quality of dry-aged pork loins in scoria-containing *onggi*, Korean earthenware as a storage container
Sung-Su Kim, Dong-Jin Shin, Dong-Gyun Yim, Hye-Jin Kim, Doo Yeon Jung, Hyun-Jun Kim, Cheorun Jo (Korea)
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Animal Behavior and Welfare

- 810** Behavioral responses to cow and calf separation: separation at 1 and 100 days after birth
Sarah E. Mac, Sabrina Lomax, Cameron E. F. Clark (Australia)
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Environment and Management

- 818** Effects of hydrothermal pretreatment on methane potential of anaerobic digestion sludge cake of cattle manure containing sawdust as bedding materials
Jun-Hyeong Lee, Chang-Hyun Kim, Young-Man Yoon (Korea)