
Review Paper

- 1619** Effects of dietary fiber in gestating sow diets — A review
Hyunwoong Jo, Beob Gyun Kim (Korea)
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Animal Breeding and Genetics

- 1632** Effect of dietary betaine supplementation on the liver transcriptome profile in broiler chickens under heat stress conditions
Deok Yun Kim, Gi Ppeum Han, Chiwoong Lim, Jun-Mo Kim, Dong Yong Kil (Korea)
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Animal Reproduction and Physiology

- 1647** Increasing sperm production and improving cryosurvival of semen in aged Thai native roosters as affected by selenium supplementation
Supakorn Authaida, Ruthaiporn Ratchamak, Wuttigrai Boonkum, Vibuntita Chankitisakul (Thailand)
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Ruminant Nutrition and Forage Utilization

- 1655** Indoor feeding combined with restricted grazing time improves body health, slaughter performance, and meat quality in Huang-huai sheep
Yafeng Huang, Mengyu Zhao, Xiaoan Zhang, Huiqing Wei, Lumeng Liu, Zijun Zhang, Xiao Cheng, Guanjun Wang, Chunhuan Ren (China)
- 1666** Relationships between dietary rumen-protected lysine and methionine with the lactational performance of dairy cows — A meta-analysis
Agung Irawan, Ahmad Sofyan, Teguh Wahyono, Muhammad Ainsyar Harahap, Andi Febrisiantosa, Awistaros Angger Sakti, Hendra Herdian, Anuraga Jayanegara (Indonesia)
- 1685** Effects of rumen-protected biotin on the growth performance, nitrogen utilization and blood parameters of yearling Liaoning cashmere doelings
Haiying Liu, Ying Lin, Xuhui Chen, Guiqin Yang (China)
- 1693** The molecular mechanism of propionate-regulating gluconeogenesis in bovine hepatocytes
Rui Pang, Xiao Xiao, Tiantian Mao, Jiajia Yu, Li Huang, Wei Xu, Yu Li, Wen Zhu (China)
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Nonruminant Nutrition and Feed Processing

- 1700** Effects of bacterial β -mannanase on apparent total tract digestibility of nutrients in various feedstuffs fed to growing pigs
Ki Beom Jang, Yan Zhao, Young Ihn Kim, Tiago Pasquetti, Sung Woo Kim (USA)
- 1709** Effect of supplementing hydroxy trace minerals (Cu, Zn, and Mn) on egg quality and performance of laying hens under tropical conditions
Vasan Palanisamy, Sakthivel PC, Lane Pineda, Yanming Han (India)
- 1718** Effect of enzymolytic soybean meal supplementation on performance, nitrogen excretion, serum biochemical parameters and intestinal morphology in broilers fed low-protein diets
Xin Zhu, Kai Gao, Ziyi Zhang, Haiying Liu, Guiqin Yang (China)

- 1727** A comprehensive longitudinal study of gut microbiota dynamic changes in laying hens at four growth stages prior to egg production
Seojin Choi, Eun Bae Kim (Korea)
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Animal Products

- 1738** Effect of sea tangle extract on the quality characteristics of reduced-salt, low-fat sausages using pre-rigor muscle during refrigerated storage
Geon Ho Kim, Koo Bok Chin (Korea)
- 1747** Exploring the impact of various cooking techniques on the physicochemical and quality characteristics of camel meat product
Mouza Bahwan, Waqas N Baba, Oladipupo Adiamo, Hassan Mohammed Hassan, Ume Roobab, Olalere Olusegun Abayomi, Sajid Maqsood (United Arab Emirates)
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**Animal
Biotechnology**

- 1757** Optimizing hormonal and amino acid combinations for enhanced cell proliferation and cell cycle progression in bovine mammary epithelial cells
Hyuk Cheol Kwon, Hyun Su Jung, Do Hyun Kim, Jong Hyeon Han, Seo Gu Han, Dong Hyun Keum, Seong Joon Hong, Sung Gu Han (Korea)
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**Animal Behavior
and Welfare**

- 1769** Effects of bed cleanliness on tucked and extended sleep-related lying postures of Japanese Black fattening cattle
Shen Dan, Hidetoshi Kakihara, Michiru Fukasawa (Japan)