
Review Paper

- 1641** Use of natural ingredients in Japanese quail diet and their effect on carcass and meat quality — A review
Rey David Vargas-Sánchez, Félix Joel Ibarra-Arias, Brisa del Mar Torres-Martínez, Armida Sánchez-Escalante, Gastón Ramón Torrescano-Urrutia (Mexico)
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Animal Breeding and Genetics

- 1657** Comparison of genomic predictions for carcass and reproduction traits in Berkshire, Duroc and Yorkshire populations in Korea
Asif Iqbal, Tae-Jeong Choi, You-Sam Kim, Yun-Mi Lee, M. Zahangir Alam, Jong-Hyun Jung, Ho-Sung Choe, Jong-Joo Kim (Korea)
- 1664** Genetic diversity analysis of fourteen geese breeds based on microsatellite genotyping technique
Hebatallah Abdel Moniem, Yang Yao Zong, Alwasella Abdallah, Guo-hong Chen (Egypt)
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Animal Reproduction and Physiology

- 1673** Induction of fertile estrus without the use of steroid hormones in seasonally anestrus Suffolk ewes
Erika Elizabeth Miguel-Cruz, Octavio Mejía-Villanueva, Luis Zarco (Mexico)
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Ruminant Nutrition and Forage Utilization

- 1686** Comparative study of some analytical methods to quantify lignin concentration in tropical grasses
Alejandro V. Velásquez, Cristian M. M. R. Martins, Pedro Pacheco, Romualdo S. Fukushima (Brazil)
- 1695** The effect of adding ethanolic saffron petal extract and vitamin E on growth performance, blood metabolites and antioxidant status in Baluchi male lambs
Fereshteh Alipour, Alireza Vakili, Mohsen Danesh Mesgaran, Hadi Ebrahimi (Iran)
- 1705** Effects of reducing inclusion rate of roughages by changing roughage sources and concentrate types on intake, growth, rumen fermentation characteristics, and blood parameters of Hanwoo growing cattle (*Bos Taurus coreanae*)
Seoyoung Jeon, Sinyong Jeong, Mingyung Lee, Jakyoom Seo, Dong Keun Kam, Jeong Hoon Kim, Jaehwa Park, Seongwon Seo (Korea)
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Nonruminant Nutrition and Feed Processing

- 1715** Analysis of excreta bacterial community after forced molting in aged laying hens
Gi Ppeum Han, Kyu-Chan Lee, Hwan Ku Kang, Han Na Oh, Woo Jun Sul, Dong Yong Kil (Korea)

- 1725** Partial replacement of soybean meal with different protein sources in piglet feed during the nursery phase
Jansller Luiz Genova, Paulo Levi de Oliveira Carvalho,
Newton Tavares Escocard de Oliveira, Aparecida da Costa Oliveira, Franz Dias Gois,
Davi Elias de Sá e Castro, Fábio Nicory Costa Souza, Heloíse Trautenmüller,
Liliana Bury de Azevedo dos Santos, Isabela Ferreira Leal (Brazil)
- 1734** β -Xylosidase and β -mannosidase in combination improved growth performance and altered microbial profiles in weanling pigs fed a corn-soybean meal-based diet
Shaoshuai Liu, Chang Ma, Ling Liu, Dong Ning, Yajing Liu, Bing Dong (China)
- 1745** Amino acid digestibility in plant protein sources fed to growing pigs
Ah Reum Son, Chan Sol Park, Kyu Ree Park, Beob Gyun Kim (Korea)
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Animal Products

- 1753** A comparative study of carcass characteristics and meat quality in genetic resources Pekin ducks and commercial crossbreds
Dariusz Kokoszyński, Dariusz Piwczyński, Henrieta Arpášová, Cyril Hrnčar,
Mohamed Saleh, Rafał Wasilewski (Poland)
- 1763** Partial replacement of pork backfat with konjac gel in Northeastern Thai fermented sausage (Sai Krok E-san) to produce the healthier product
Supaluk Sorapukdee, Sujitta Jansa, Pussadee Tangwatcharin (Thailand)
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Animal Biotechnology

- 1776** The enhancing effect of *Acanthopanax sessiliflorus* fruit extract on the antibacterial activity of porcine alveolar 3D4/31 macrophages via nuclear factor kappa B1 and lipid metabolism regulation
Eunmi Hwang, Gye Won Kim, Ki Duk Song, Hak-Kyo Lee, Sung-Jo Kim (Korea)
- 1789** *Dudleya brittonii* extract promotes survival rate and M2-like metabolic change in porcine 3D4/31 alveolar macrophages
Hyungkuen Kim, Eek Hyung Jeon, Byung-Chul Park, Sung-Jo Kim (Korea)