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## Animal Breeding and Genetics

- 949** Mitochondrial sequence based characterization and morphometric assessment of Diara buffalo population  
Karan Veer Singh, Hitesh Purohit, Ramesh Kumar Singh (India)
- 955** Genetic study of quantitative traits supports the use of Guzerá as dual-purpose cattle  
Eula Regina Carrara, Maria Gabriela Campolina Diniz Peixoto, Renata Veroneze, Fabyano Fonseca e Silva, Pedro Vital Brasil Ramos, Frank Angelo Tomita Bruneli, Lenira El Faro Zadra, Henrique Torres Ventura, Luiz Antônio Josahkian, Paulo Sávio Lopes (Brazil)
- 964** The highly pathogenic H5N1 avian influenza virus induces the mitogen-activated protein kinase signaling pathway in the trachea of two Ri chicken lines  
Thi Hao Vu, Yeojin Hong, Anh Duc Truong, Sooyeon Lee, Jubi Heo, Hyun S. Lillehoj, Yeong Ho Hong (Korea)
- 975** Long non-coding RNAs in *Sus scrofa* ileum under starvation stress  
Shu Wang, Yi Jia Ma, Yong Shi Li, Xu Sheng Ge, Chang Lu, Chun Bo Cai, Yang Yang, Yan Zhao, Guo Ming Liang, Xiao Hong Guo, Guo Qing Cao, Bu Gao Li, Peng Fei Gao (China)

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## Animal Reproduction and Physiology

- 989** Effects of intrauterine growth restriction during late pregnancy on the cell growth, proliferation, and differentiation in ovine fetal thymuses  
Yang Zi, Chi Ma, Shan He, Huan Yang, Min Zhang, Feng Gao, Yingchun Liu (China)

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## Ruminant Nutrition and Forage Utilization

- 999** Effects of rice straw fermented with spent *Pleurotus sajor-caju* mushroom substrates on milking performance in Alpine dairy goats  
Geng-Jen Fan, Mei-Hsing Chen, Churng-Faung Lee, Bi Yu, Tzu-Tai Lee (Taiwan)
- 1010** Effects of maternal undernutrition during late pregnancy on the regulatory factors involved in growth and development in ovine fetal perirenal brown adipose tissue  
Huan Yang, Chi Ma, Yang Zi, Min Zhang, Yingchun Liu, Kaifeng Wu, Feng Gao (China)

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## Nonruminant Nutrition and Feed Processing

- 1021** Pea starch increases the dry matter flow at the distal ileum and reduces the amino acids digestibility in ileal digesta collected after 4 hours postprandial of pigs fed low-protein diets  
Junyan Zhou, Lu Wang, Guangxin Yang, Lijie Yang, Xiangfang Zeng, Shiyan Qiao (China)

- 1030** Standardized ileal digestibility of amino acids of protein sources associated with exogenous enzymes for broilers  
Bruno Duarte Alves Fortes, Heloisa Helena de Carvalho Mello, Marcos Barcellos Café, Emmanuel Arnhold, José Henrique Stringhini (Brazil)
- 1039** Effects of transport time and feeding type on weight loss, meat quality and behavior of broilers  
Yajie Fu, Jingwen Yin, Ning Zhao, Ge Xue, Runxiang Zhang, Jianhong Li, Jun Bao (China)
- 1048** Extraction of dietary fibers from cassava pulp and cassava distiller's dried grains and assessment of their components using Fourier transform infrared spectroscopy to determine their further use as a functional feed in animal diets  
Supattra Okrathok, Kanjana Thumanu, Chayanan Pukkung, Wittawat Molee, Sutisa Khempaka (Thailand)
- 1059** Effect of multi-enzymes supplementation on growth performance, meat quality, ileal digestibility, digestive enzyme activity and caecal microbiota in broilers fed low-metabolizable energy diet  
Muhammad Umar Yaqoob, Muhammad Yousaf, Mubashir Iftikhar, Safdar Hassan, Geng Wang, Safdar Imran, Muhammad Umer Zahid, Waqar Iqbal, Minqi Wang (China)
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## Animal Products

- 1069** Comparison and analysis on sheep meat quality and flavor under pasture-based fattening contrast to intensive pasture-based feeding system  
Zhichao Zhang, Xiaoqi Wang, Yan Jin, Kai Zhao, Ziyuan Duan (China)
- 1080** Fatty acid profiles and flavour-related compounds of retorted Korean ginseng chicken soup (Samgyetang) affected by pre-treated black garlic extract  
Farouq Heidar Barido, Dicky Tri Utama, Yeong Jong Kim, Sung Ki Lee (Korea)
- 1091** Qualitative attributes of meat from Teramana goat kids, an Italian native breed of the Abruzzo region  
Andrea Ianni, Francesca Bennato, Camillo Martino, Alessio Di Luca, Giuseppe Martino (Italy)
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## Environment and Management

- 1100** Effect of waste cooking oil addition on ammonia emissions during the composting of dairy cattle manure  
Kazutaka Kuroda, Akihiro Tanaka, Kenichi Furuhashi, Naoki Fukuju (Japan)