
Review Paper

- 1289** State of the art on the physical mapping of the Y-chromosome in the Bovidae and comparison with other species — A review
Cristina Rossetti, Viviana Genualdo, Domenico Incarnato, Filomena Mottola, Angela Perucatti, Alfredo Paucillo (Italy)
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Animal Breeding and Genetics

- 1303** Whole-genome resequencing reveals domestication and signatures of selection in Ujimqin, Sunit, and Wu Ranke Mongolian sheep breeds
Hanning Wang, Liang Zhong, Yanbing Dong, Lingbo Meng, Cheng Ji, Hui Luo, Mengrong Fu, Zhi Qi, Lan Mi (China)
- 1314** Development of novel microsatellite markers to analyze the genetic structure of dog populations in Taiwan
Fang-Yu Lai, Yu-Chen Lin, Shih-Torng Ding, Chi-Sheng Chang, Wi-Lin Chao, Pei-Hwa Wang (Taiwan)
- 1327** MicroRNA analysis reveals the role of miR-214 in duck adipocyte differentiation
Laidi Wang, Xiaodan Hu, Shasha Wang, Chunyou Yuan, Zhixiu Wang, Guobin Chang, Guohong Chen (China)
- 1340** Whole genome sequencing of Luxi Black Head sheep for screening selection signatures associated with important traits
Zhaohua Liu, Xiuwen Tan, Jianying Wang, Qing Jin, Xianfeng Meng, Zhongfeng Cai, Xukui Cui, Ke Wang (China)
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Animal Reproduction and Physiology

- 1351** Effect of lactoferrin on ram sperm motility after cryopreservation
Jie Su, Caiyun Wang, Yongli Song, Yanyan Yang, Guifang Cao (China)
- 1360** Impact of co-transfer of embryos produced by somatic cell nuclear transfer using two types of donor cells on pregnancy outcomes in dogs
Young-Bum Son, Yeon Ik Jeong, Yeon Woo Jeong, Mohammad Shamim Hossein, Woo Suk Hwang (Korea)
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Ruminant Nutrition and Forage Utilization

- 1367** Pretreatments of *Broussonetia papyrifera*: *in vitro* assessment on gas and methane production, fermentation characteristic, and methanogenic archaea profile
Lifeng Dong, Yanhua Gao, Xuelan Jing, Huiping Guo, Hongsen Zhang, Qi Lai, Qiyu Diao (China)
- 1379** Lactic acid bacteria strains selected from fermented total mixed rations improve ensiling and *in vitro* rumen fermentation characteristics of corn stover silage
Kailang Huang, Hongwei Chen, Yalu Liu, Qihua Hong, Bin Yang, Jiakun Wang (China)

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**Nonruminant
Nutrition and
Feed Processing**

- 1390** Feeding broiler chicks with *Schizosaccharomyces pombe*-expressed phytase-containing diet improves growth performance, phosphorus digestibility, toe ash, and footpad lesions
De Xin Dang, Seong Guk Chun, In Ho Kim (Korea)
- 1400** Chemical composition and standardized ileal digestibility of crude protein and amino acid in whole yeast and autolyzed yeast derived from sugarcane ethanol production fed to growing pigs
Chanwit Kaewtapee, Nontawut Jantra, Krittaya Petchpoung, Choawit Rakangthong, Chaiyapoom Bunchasak (Thailand)
- 1408** Black soldier fly (*Hermetia illucens*) larvae oil as an alternative fat ingredient to soybean oil in laying hen diets
Byeonghyeon Kim, Minji Kim, Jin Young Jeong, Hye Ran Kim, Sang Yun Ji, Hyunjung Jung, Seol Hwa Park (Korea)
- 1418** Digestibility of amino acids in fish meal and blood-derived protein sources fed to pigs
Chan Sol Park, Olayiwola Adeola (USA)
- 1426** Interactive effect of dietary levels of calcium and 25-hydroxy vitamin D3 on the performance, serum biochemical concentration and digestibility of laying hens from 61 to 70 weeks of age
Chun Ik Lim, Kyeong Seon Ryu (Korea)
- 1434** Effects of quercetin and coated sodium butyrate dietary supplementation in diquat-challenged pullets
Ning Zhou, Yong Tian, Wenchao Liu, Bingjiang Tu, Tiantian Gu, Wenwu Xu, Kang Zou, Lizhi Lu (China)
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**Animal
Biotechnology**

- 1444** Mechanistic target of rapamycin and an extracellular signaling-regulated kinases 1 and 2 signaling participate in the process of acetate regulating lipid metabolism and hormone-sensitive lipase expression
Yujuan Li, Chunyan Fu, Lei Liu, Yongxu Liu, Fuchang Li (China)
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**Animal Behavior
and Welfare**

- 1454** Effect of prenatal different auditory environment on learning ability and fearfulness in chicks
Shuai Zhao, Chunzhu Xu, Runxiang Zhang, Xiang Li, Jianhong Li, Jun Bao (China)