

---

## Editorial

- 1331** — Editorial — Update and inclusion of the Institutional Animal Care and Use Committee approval in the Asian-Australasian Journal of Animal Sciences  
Cheol-Heui Yun (Korea)
- 

## Review Paper

- 1332** Effects of heat stress on body temperature, milk production, and reproduction in dairy cows: a novel idea for monitoring and evaluation of heat stress — A review  
Jiangjing Liu, Lanqi Li, Xiaoli Chen, Yongqiang Lu, Dong Wang (China)
- 

## Animal Breeding and Genetics

- 1340** Accuracy of genomic-polygenic estimated breeding value for milk yield and fat yield in the Thai multibreed dairy population with five single nucleotide polymorphism sets  
Bodin Wongpom, Skorn Koonawootrittriron, Mauricio A. Elzo, Thanathip Suwanasopee, Danai Jattawa (Thailand)
- 1349** Different penalty methods for assessing interval from first to successful insemination in Japanese Black heifers  
Asep Setiaji, Takuro Oikawa (Japan)
- 

## Animal Reproduction and Physiology

- 1355** Unique epithelial expression of S100A calcium binding protein A7A in the endometrium at conceptus implantation in pigs  
Soohyung Lee, Hwanhee Jang, Inkyu Yoo, Jisoo Han, Wonchul Jung, Hakhyun Ka (Korea)
- 

## Ruminant Nutrition and Forage Utilization

- 1363** Rubber seed oil and flaxseed oil supplementation on serum fatty acid profile, oxidation stability of serum and milk, and immune function of dairy cows  
Yu Pi, Lu Ma, Hongrong Wang, Jiaqi Wang, Jianchu Xu, Dengpan Bu (China)
- 1373** Nutritional and productive parameters of Holstein/Zebu cows fed diets containing cactus pear  
Lucas Daniel Alcântara Borges, Vicente Ribeiro Rocha Júnior, Flávio Pinto Monção, Camila Soares, José Reinaldo Mendes Ruas, Fredson Vieira e Silva, João Paulo Sampaio Rigueira, Natanael Mendes Costa, Laura Lúcia Santos Oliveira, Walber de Oliveira Rabelo (Brazil)
- 1381** Protein molecular structure, degradation and availability of canola, rapeseed and soybean meals in dairy cattle diets  
Yujia Tian, Xuewei Zhang, Rongcai Huang, Peiqiang Yu (China)
- 1389** Prediction of methane emission from sheep based on data measured *in vivo* from open-circuit respiratory studies  
Tao Ma, Kaidong Deng, Qiyu Diao (China)
- 

## Nonruminant Nutrition and Feed Processing

- 1397** Metabolizable energy requirement for maintenance estimated by regression analysis of body weight gain or metabolizable energy intake in growing pigs  
Hu Liu, Yifan Chen, Zhongchao Li, Yakui Li, Changhua Lai, Xiangshu Piao, Jaap van Milgen, Fenglai Wang (China)

- 1407** Effect of different sources and inclusion levels of dietary fat on productive performance and egg quality in laying hens raised under hot environmental conditions  
Jong Hyuk Kim, Han Kyu Lee, Tae Sung Yang, Hwan Ku Kang, Dong Yong Kil (Korea)
- 1414** Effects of adaptation time and inclusion level of sugar beet pulp on nutrient digestibility and evaluation of ileal amino acid digestibility in pigs  
Ze Yu Zhang, Shuai Zhang, Chang Hua Lai, Jin Biao Zhao, Jian Jun Zang, Cheng Fei Huang (China)

---

## Animal Products

- 1423** Nutritional and antioxidative properties of black goat meat cuts  
Hye-Jin Kim, Hee-Jin Kim, Aera Jang (Korea)
- 1430** Effects of coated cysteamine hydrochloride on muscle fiber characteristics and amino acid composition of finishing pigs  
Miaomiao Bai, Hongnan Liu, Kang Xu, Rong Yu, Abimbola Oladele Oso, Jinping Deng, Yulong Yin (China)
- 1439** Enhanced oxidative stability of meat by including tannin-rich leaves of woody plants in goat diet  
Elisa Mariana García, Agustín López, María Zimmerman, Olegario Hernández, José Ignacio Arroquy, Mónica Azucena Nazareno (Argentina)
- 1448** Quality characteristics and flavor compounds of pork meat as a function of carcass quality grade  
Van Ba Hoa, Pil-Nam Seong, Soo-Hyun Cho, Sun- Moon Kang, Yun-Seok Kim, Sung-Sil Moon, Yong-Min Choi, Jin-Hyoung Kim, Kuk-Hwan Seol (Korea)

---

## Animal Biotechnology

- 1458** Hepatic microRNAome reveals potential microRNA-mRNA pairs association with lipid metabolism in pigs  
Jingge Liu, Caibo Ning, Bojiang Li, Rongyang Li, Wangjun Wu, Honglin Liu (China)

---

## Animal Behavior and Welfare

- 1469** A pilot study on differential expression of microRNAs in the ventromedial prefrontal cortex and serum of sows in activity restricted crates or activity free pens  
Guoan Yin, Liwei Guan, Langchao Yu, Dapeng Huang (China)

---

## Environment and Management

- 1475** Meat quality of pork loins from Hereford×Berkshire female and intact male pigs reared in an alternative production system  
Yvette Robbins, Hyeon-Suk Park, Travis Tennant, Dana Hanson, Niki Whitley, Byungrok Min, Sang-Hyon Oh (USA)

- 
- 1482** CORRIGENDUM (2019; vol 32, no 8, 1172-1185)