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## Animal Breeding and Genetics

- 1503** Skin proteomic screening and functional analysis of differential proteins associated with coat color in sheep (*Ovis aries*)  
Zhihong Yin, Shitong Hao, Yuanyuan Zhao, Jinglong Li, Yunli Cui, Yaming Ge, Quanhai Pang (China)
- 1517** Association of histamine-N-methyl transferase gene polymorphisms with carnosine content in red-brown Korean native chickens  
Jean Pierre Munyaneza, Minjun Kim, Eunjin Cho, Aera Jang, Hyo Jun Choo, Jun Heon Lee (Korea)
- 1526** Image analysis traits of multiple muscles and intermuscular/subcutaneous fat influence Japanese Black beef carcass price and genetic parameters  
Yuta Tamagawa, Mikiya Takahashi, Koichi Hagiya, Keigo Kuchida (Japan)
- 1535** Genome-wide association research on the reproductive traits of Qianhua Mutton Merino sheep  
Jiarong Li, Limin Sun, Jiazhi Sun, Huaizhi Jiang (China)
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## Animal Reproduction and Physiology

- 1548** Freezing Hu ram semen: influence of different penetrating cryoprotectants and egg yolk level on the post-thaw quality of sperm  
Liuming Zhang, Caiyu Jiang, Xuyang Wang, Tariq Sohail, Yuxuan Sun, Xiaomei Sun, Jian Wang, Yongjun Li (China)
- 1558** Effect of cholesterol-loaded cyclodextrin treatment on boar sperm cryopreservation  
Silong Zhang, Hanbing Zhang, Kexiong Liu, Xiaoling Xu, Yusheng Qin, Linli Xiao, Chunmei Zhou, Jianliang Wu, Yan Liu, Jiahua Bai (China)
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## Ruminant Nutrition and Forage Utilization

- 1568** Repeatability of feed efficiency and its relationship with carcass traits in Hanwoo steers during their entire growing and fattening period  
Hyunjin Cho, Kyewon Kang, Hamin Kang, Seoyoung Jeon, Mingyung Lee, Eunkyung Park, Seokman Hong, Seongwon Seo (Korea)
- 1581** Expression and characterization of a novel microbial GH9 glucanase, IDSGluc9-4, isolated from sheep rumen  
Yongzhen Zhu, Shuning Bai, Nuo Li, Jun-Hong Wang, Jia-Kun Wang, Qian Wang, Kaiying Wang, Tietao Zhang (China)
- 1595** Effects of fruit and vegetable waste addition on corn stalk silage quality  
Li Li Wang, Yan Fen Li, Li Zhuang Wu, Young Sang Yu, Xaysana Panyavong, Jong Geun Kim (Korea)
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## Nonruminant Nutrition and Feed Processing

- 1603** Effects of dietary supplementation of vitamin A on the tibia quality of goslings  
Xia Xiao, Haiming Yang, Xiaoli Wan, Zhiyue Wang (China)

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**1614** Effects of dietary deoxynivalenol on growth performance and organ accumulation of growing pigs  
Ah Reum Son, Seung Youp Shin, Yoon Soo Song, Bokyung Hong, Beob Gyun Kim (Korea)

**1622** Dietary apidaecin Api-PR19 addition enhances growth performance by regulating gut health and microbiota in broilers  
Chenxu Wang, Xinrui Wang, Rui Liu, Jiyang Min, Xiaojun Yang, Lixin Zhang (China)

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## Animal Biotechnology

**1635** DOT1-like histone lysine methyltransferase is critical for adult vessel maintenance and functions  
Heeji Lee, Dong Wook Han, Hyeonwoo La, Chanhyeok Park, Kiye Kang, Ohbeom Kwon, Sang Jun Uhm, Hyuk Song, Jeong Tae Do, Youngsok Choi, Kwonho Hong (Korea)

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## Animal Health

**1644** Serological and epidemiological investigation of *Mycobacterium avium* subspecies paratuberculosis in bovines in Pakistan  
Aziz ur Rehman, Muhammad Tariq Javed, Ishtiaq Ahmed, Muhammad Adnan Saeed, Syed Ehtisham-ul-Haque, Muhammad Kamran Rafique, Arbab Sikandar, Amar Nasir, Latif Ahmad, Muhammad Kashif, Muhammad Abid Zeeshan (Pakistan)

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## Animal Behavior and Welfare

**1653** Effects of one-hour daily outdoor access on milk yield and composition and behaviors of tethered dairy cows  
Huricha, Ai Nanbu, Masashi Takemoto, Ken-ichi Takeda (Japan)

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## Book Review

**1660** — Book Review —  
The Encyclopedia of Animal Nutrition (2nd Edition)  
Yoo Yong Kim (Korea)