

## Animal Breeding and Genetics

- 795** Comparative assessment of the effective population size and linkage disequilibrium of Karan Fries cattle revealed viable population dynamics  
Shivam Bhardwaj, Oshin Togla, Shabhat Mumtaz, Nistha Yadav, Jigyasha Tiwari, Lal Muansangi, Satish Kumar Illa, Yaser Mushtaq Wani, Sabyasachi Mukherjee, Anupama Mukherjee (India)
- 807** A genome-wide association study on growth traits of Korean commercial pig breeds using Bayesian methods  
Jong Hyun Jung, Sang Min Lee, Sang-Hyon Oh (Korea)
- 817** B-spline polynomials models for analyzing growth patterns of Guzerat young bulls in field performance tests  
Ricardo Costa Sousa, Fernando dos Santos Magaço, Daiane Cristina Becker Scalez, José Elivalto Guimarães Campelo, Clélia Soares de Assis, Idalmo Garcia Pereira (Brazil)
- 826** Identification of new major histocompatibility complex-B Haplotypes in Bangladesh native chickens  
Thisarani Kalhari Ediriweera, Prabuddha Manjula, Jaewon Kim, Jin Hyung Kim, Seonju Nam, Minjun Kim, Eunjin Cho, Mohammad Shamsul Alam Bhuiyan, Md. Abdur Rashid, Jun Heon Lee (Korea)
- 832** Evaluation of genetic differentiation and search for candidate genes for reproductive traits in pigs  
Elena Romanets, Siroj Bakoev, Timofey Romanets, Maria Kolosova, Anatoly Kolosov, Faridun Bakoev, Olga Tretiakova, Alexander Usatov, Lyubov Getmantseva (Russia)
- 839** Development of an index that decreases birth weight, promotes postnatal growth and yet minimizes selection intensity in beef cattle  
Kenji Togashi, Toshio Watanabe, Atsushi Ogino, Masakazu Shinomiya, Masashi Kinukawa, Kazuhito Kurogi, Shohei Toda (Japan)

## Animal Reproduction and Physiology

- 852**  $\beta$ -Nicotinamide mononucleotide improves chilled ram sperm quality *in vitro* by reducing oxidative stress damage  
Zhendong Zhu, Haolong Zhao, Qitai Yang, Yajing Li, Ruyuan Wang, Adedeji Olufemi Adetunji, Lingjiang Min (China)
- 862** Effect of *Andrographis paniculata* supplementation during the transition period on colostrum yield, immunoglobulin G, and postpartum complications in multiparous sows during tropical summer  
Padet Tummaruk, Kankawee Petchsangharn, Kanyakon Shayutapong, Thanwarat Wisetsiri, Patcharin Krimtum, Sidthipong Kaewkaen, Preechaphon Taechamaeteekul, Natchanon Dumniem, Junpen Suwimonteerabutr, Fabio De Rensis (Italy)

## Nonruminant Nutrition and Feed Processing

- 875** Higher concentrations of folic acid reduced the dietary requirements of supplemental methionine for commercial broilers  
S. V. Rama Rao, M. V. L. N. Raju, D. Nagalakshmi, T. Srilatha, S. S. Paul, B. Prakash, A. Kannan (India)
- 883** Fatty acid-balanced oil improved nutrient digestibility, altered milk composition in lactating sows and fecal microbial composition in piglets  
Yu Zhang, Shuyu Peng, Shuang Dong, Jihua Wang, Yu Cao, Yongxi Ma, Chunlin Wang (China)

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**Animal Products**

- 896** Performance, blood and antioxidant status in dual-purpose laying hens supplemented with aqueous extract of Christ's thorn jujube (*Ziziphus spina-christi* L.) leaves as phytogetic agent in subtropical conditions  
Khaled H. El-Kholy, Hasan Tag El-Din, Found A. Tawfeek, Vincenzo Tufarelli, Caterina Losacco, Rashed A. Alhotan, Manal E. Shafi, Mohamed A. Korish, Youssef A. Attia, Sara H. M. Hassab (Italy)

- 908** Effects of gold and green kiwifruit juices on the physicochemical properties and tenderness of pork loin and antioxidant activity during incubation (24 h) in a pork model system  
Haeun Kim, Koo Bok Chin (Korea)

- 918** Untargeted metabolomics using liquid chromatography-high resolution mass spectrometry and chemometrics for analysis of non-halal meats adulteration in beef meat  
Anjar Windarsih, Nor Kartini Abu Bakar, Abdul Rohman, Nancy Dewi Yuliana, Dachriyanus Dachriyanus (Indonesia)

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**Animal Biotechnology**

- 929** RNA-Seq explores the functional role of the fibroblast growth factor 10 gene in bovine adipocytes differentiation  
Nurgulsim Kaster, Rajwali Khan, Ijaz Ahmad, Kazhgaliyev Nurlybay Zhigerbayevich, Imbay Seisembay, Akhmetbekov Nurbolat, Shaikenova Kymbat Hamitovna, Omarova Karlygash Mirambekovna, Makhanbetova Aizhan Bekbolatovna, Tlegen Garipovich Amangaliyev, Ateikhan Bolatbek, Titanov Zhanat Yeginbaevich, Shakoor Ahmad, Zan Linsen, Begenova Ainagul Baibolsynovna (Kazakhstan)

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**Animal Behavior and Welfare**

- 944** Heart rate variability and behavioral alterations during prepartum period in dairy cows as predictors of calving: a preliminary study  
Tomoki Kojima, Chen-Yu Huang, Ken-ichi Yayou (Japan)

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**Environment and Management**

- 952** Effects of stocking density on the homeostasis of uric acid and related liver and kidney functions in ducks  
Peiyi Lin, Sui Liufu, Jinhui Wang, Zhanpeng Hou, Yu Liang, Haiyue Wang, Bingxin Li, Nan Cao, Wenjun Liu, Yunmao Huang, Yunbo Tian, Danning Xu, Xiujin Li, Xinliang Fu (China)

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- 962** CORRIGENDUM (2024; vol 37, no 3, 405-418)

- 963** CORRIGENDUM (2024; vol 37, no 3, 451-460)

