

Asian-Australasian Journal of Animal Sciences

April 2016

Volume 29 Number 4

Contents

ANIMAL BREEDING AND GENETICS

57. Association Analysis of Myosin Heavy-chain Genes mRNA Transcription with the Corresponding Proteins Expression of *Longissimus* Muscle in Growing Pigs / X. M. Men, B. Deng, X. Tao, K. K. Qi, and Z. W. Xu (China) 457
58. Imputation Accuracy from Low to Moderate Density Single Nucleotide Polymorphism Chips in a Thai Multibreed Dairy Cattle Population / Danai Jattawa, Mauricio A. Elzo, Skorn Koonawootrittriron, and Thanathip Suwanasopee (Thailand) 464
59. Genetic Diversity Analysis of South and East Asian Duck Populations Using Highly Polymorphic Microsatellite Markers / Dongwon Seo, Md. Shamsul Alam Bhuiyan, Hasina Sultana, Jung Min Heo, and Jun Heon Lee (Korea) 471
60. Identification of Histone Deacetylase 2 as a Functional Gene for Skeletal Muscle Development in Chickens / Md. Shahjahan, Ranran Liu, Guiping Zhao, Fangjie Wang, Maiqing Zheng, Jingjing Zhang, Jiao Song, and Jie Wen (China) 479

ANIMAL REPRODUCTION AND PHYSIOLOGY

61. Effects of Steroid Hormone in Avian Follicles / R. E. Caicedo Rivas, M. Paz-Calderón Nieto, and M. Kamiyoshi (México) 487

RUMINANT NUTRITION AND FORAGE UTILIZATION

62. Effects of *Momordica charantia* Saponins on *In vitro* Ruminal Fermentation and Microbial Population / Jinhe Kang, Bo Zeng, Shaoxun Tang, Min Wang, Xuefeng Han, Chuanshe Zhou, Qiongxin Yan, Zhixiong He, Jinfu Liu, and Zhiliang Tan (China) 500
63. Effect of Feeding Date Pits on Milk Production, Composition and Blood Parameters of Lactating Ardi Goats / S. B. AL-Suwaiegh (Kingdom of Saudi Arabia) 509
64. Lactic Acid Bacteria in Total Mixed Ration Silage Containing Soybean Curd Residue: Their Isolation, Identification and Ability to Inhibit Aerobic Deterioration / Y. Li, F. Wang, and N. Nishino (China) 516
65. Effects of Rice Straw Supplemented with Urea and Molasses on Intermediary Metabolism of Plasma Glucose and Leucine in Sheep / Mohammad Khairul Alam, Yasumichi Ogata, Yukari Sato, and Hiroaki Sano (Japan) 523
66. Characteristics of Wet Distillers Grains on *In vitro* Ruminal Fermentation and Its Effects on Performance and Carcass Characteristics of Finishing Hanwoo Steers / Gyu Chul Ahn, Hyung Jun Kwak, Young Kyooh Oh, Yoo Kyung Lee, Sun Sik Jang, Sang Suk Lee, and Keun Kyu Park (Korea) 530
-

NONRUMINANT NUTRITION AND FEED PROCESSING

67. Influence of Palm Kernel Meal Inclusion and Exogenous Enzyme Supplementation on Growth Performance, Energy Utilization, and Nutrient Digestibility in Young Broilers / *M. R. Abdollahi, B. J. Hosking, D. Ning, and V. Ravindran* (New Zealand) 539
68. Growth Performance, Relative Meat and Organ Weights, Cecal Microflora, and Blood Characteristics in Broiler Chickens Fed Diets Containing Different Nutrient Density with or without Essential Oils / *Sang-Jin Kim, Kyung-Woo Lee, Chang-Won Kang, and Byoung-Ki An* (Korea) 549

ANIMAL PRODUCTS

69. Effects of Feeding Purple Rice (*Oryza sativa* L. Var. Glutinosa) on the Quality of Pork and Pork Products / *Sanchai Jaturasitha, Punnares Ratanapradit, Witapong Piawong, and Michael Kreuzer* (Thailand) 555

ANIMAL BIOTECHNOLOGY

70. Generation of Fibroblasts Lacking the Sal-like 1 Gene by Using Transcription Activator-like Effector Nuclease-mediated Homologous Recombination / *Se Eun Kim, Ji Woo Kim, Yeong Ji Kim, Deug-Nam Kwon, Jin-Hoi Kim, and Man-Jong Kang* (Korea) · 564
71. Development of a Novel, Anti-idiotypic Monoclonal Anti-prolactin Antibody That Mimics the Physiological Functions of Prolactin / *Meng Wang, Dian-Cai Zhang, Shen-Tian Wang, and Ming-Long Li* (China) 571

ANIMAL HEALTH

72. Factors in Dry Period Associated with Intramammary Infection and Subsequent Clinical Mastitis in Early Postpartum Cows / *Kansuda Leelahapongsathon, Tipapun Piroon, Wasana Chaisri, and Witaya Suriyasathaporn* (Thailand) 580

ENVIRONMENT AND MANAGEMENT

73. Isolation and Characterization of a New *Methanobacterium formicicum* KOR-1 from an Anaerobic Digester Using Pig Slurry / *Urantulkhuur Battumur, Young-Man Yoon, and Chang-Hyun Kim* (Korea) 586
74. Characterization of Odorant Compounds from Mechanical Aerated Pile Composting and Static Aerated Pile Composting / *Priyanka Kumari, Joonhee Lee, and Hong-Lim Choi* (Korea) 594
75. Characteristics of Rice Hulls, Sawdust, Wood Shavings and Mixture of Sawdust and Wood Shavings, and Their Usefulness According to the Pen Location for Hanwoo Cattle / *Gyu Chul Ahn, Sun Sik Jang, Hyung Jun Kwak, Sang Rak Lee, Young Kyun Oh, and Keun Kyu Park* (Korea) 599
-