

Asian-Australasian Journal of Animal Sciences

January 2001

Volume 14, Number 1

Contents

ANIMAL BREEDING AND GENETICS

1. Estimation of Additive and Dominance Genetic Variances in Line Breeding Swine / T. Ishida, T. Kuroki, H. Harada and R. Fukuhara (Japan) 1

ANIMAL REPRODUCTION AND PHYSIOLOGY

2. Factors Affecting the Survival of Frozen Thawed Bovine *In Vitro* Produced Blastocysts / H. Gustafsson, B. Larsson, M. Shamsuddin, U. Jaakma and U. Emanuelson (Sweden) 7
3. Cloning and Expression of β 1-Adrenergic Receptor Genes in Adipose Tissues from Korean Native Cattle (Hanwoo) / S. H. Ha, M. I. Chung, M. G. Baik and Y. J. Choi (Korea) 13
4. Chicken Insulin-Like Growth Factor-I Stimulates Protein Synthesis of Chicken Embryo Myoblasts Cultured in Serum-Free Medium / K. Kita and J. Okumura (Japan) 17

RUMINANT NUTRITION AND FORAGE UTILIZATION

5. Haematological and Immunological Response in Lambs Fed on Raw and Various Processed Cottonseed Meal / D. Nagalakshmi, V. R. B. Sastry, D. K. Agrawal and R. C. Katiyar (India) 21
6. Caecal Fermentation, Blood Biochemical Profile and Histopathological Changes in Broiler Rabbits Fed Graded Levels of Neem (*Azadirachta indica*) Seed Kernel Cake / P. Vasanthakumar, K. Sharma, V. R. B. Sastry and A. K. Sharma (India) 30
7. The Role of Neuropeptide Y in the Central Regulation of Grass Intake in Sheep / K. Sunagawa, R. S. Weisiger, M. J. McKinley, B. S. Purcell, C. Thomson and P. L. Burns (Australia) 35
8. *In Sacco* Ruminal Degradation Characteristics of Chemical Components in Fresh *Zoysia japonica* and *Miscanthus sinensis* Growing in Japanese Native Pasture / S. Ogura, T. Kosako, Y. Hayashi and H. Dohi (Japan) 41
9. Effect of Sources and Levels of Carbohydrates on Fermentation Characteristics and Hydrogenation of Linoleic Acid by Rumen Bacteria *In Vitro* / J. H. Wang and M. K. Song (Korea) 48

NONRUMINANT NUTRITION AND FEED PROCESSING

10. Intestinal Structure and Function of Broiler Chickens on Wheat-Based Diets Supplemented With a Microbial Enzyme / P. A. Iji, R. J. Hughes, M. Choct and D. R. Tivey (Australia) 54
11. Effects of Yucca Extracts and Protein Levels on Growth Performance and Nutrient Utilization in Growing Pigs / T. S. Min, J. D. Kim, J. Z. Tian, W. T. Cho, Y. Hyun, K. S. Sohn and In K. Han (Korea) 61

12. Effects of Isoleucine Supplementation of a Low Protein, Corn-Soybean Meal Diet on the Performance and Immune Function of Weanling Pigs / C. T. Zheng, D. F. Li, S. Y. Qiao, L. M. Gong, D. F. Zhang, P. Thacker and In K. Han (P. R. China)	70
13. Effect of Dietary Protein and Lysine Levels on Lactating Multiparous Sows and Litter Performance / C. S. Cheng, H. T. Yen, S. W. Roan, J. F. Wu and J. C. Hsu (ROC)	77
14. Effects of Replacing Fish Meal With Ensiled Shrimp By-Product on the Performance and Carcass Characteristics of Growing Pigs / Le Duc Ngoan, Brian Ogle and Jan Erik Lindberg (Sweden)	82

ANIMAL PRODUCTION AND APPLIED SCIENCE

15. Relationship Between the Incidence of Displaced Abomasum and Feeding of Cows in Tokachi District, Hokkaido, Northern Japan / F. Mori, K. Sawada, K. Watanabe, R. J. T. Ducusin, N. Kumase, S. Tanabe, Y. Uzuka, J. Takahashi and T. Sarashina (Japan)	88
16. Quality and Amount of Morning and Evening Milk of the Bangladesh Baghabarighat Milk Shed Area Throughout the Year / K. M. S. Islam (Bangladesh)	92

ANIMAL HEALTH AND WELFARE

17. Comparative Study on the Resistance of Three Commercial Strains and Balady (Local) Breed of Chickens to Infection With <i>Salmonella gallinarum</i> / K. Alshawabkeh and M. J. Tabbaa (Jordan)	96
--	----

SHORT COMMUNICATION

18. A Study on the Scanning Electron Microscopy of the Buffalo Mammary Gland / A. K. Dang and R. S. Ludri (India)	101
---	-----

REVIEW PAPER

19. Smallholder Dairy Production Systems in Developing Countries : Characteristics, Potential and Opportunities for Improvement / C. Devendra (Kenya)	104
20. The Genetic and Non-Genetic Aspects of Leg Weakness and Osteochondrosis in Pigs / K. Fukawa and S. Kusuhara (Japan)	114
21. Growth Promoters and Their Effects on Beef Production / M. K. Song and S. H. Choi (Korea)	123

AUTHOR INDEX (VOL. 13, 2000)	136
SUBJECT INDEX (VOL. 13, 2000)	141
GUIDE FOR AUTHOR	147
