

# ANIMAL PRODUCTION SCIENCE

## CONTENTS Volume 55, Issue 6, 2015, 691–822

- Good science for improving policy: greenhouse gas emissions from agricultural manures  
*Chris Pratt, Matthew Redding, Jaye Hill, Andrew Shilton, Matthew Chung and Benoit Guieysse* 691–701
- Evaluating rates of technology adoption and milking practices on New Zealand dairy farms  
*J. P. Edwards, B. T. Dela Rue and J. G. Jago* 702–709
- Possible involvement of *myo*-inositol in the physiological response of broilers to high doses of microbial phytase  
*A. J. Cowieson, R. Aureli, P. Guggenbuhl and F. Fru-Nji* 710–719
- Evaluation of the efficacy of sequential or continuous administration of probiotics and phytogenics in broiler diets  
*K. C. Mountzouris, P. Tsirtsikos, G. Papadomichelakis, G. Schatzmayr and K. Fegeros* 720–728
- Nutritive value of wheat concentrated distillers solubles in diets for growing pigs  
*P. Rosenfelder, M. Eklund, H. K. Spindler, U. Messerschmidt, C. Potthast and R. Mosenthin* 729–735
- Effects of black seed oil and *Ferula elaeochytris* supplementation on ruminal fermentation as tested *in vitro* with the rumen simulation technique (Rusitec)  
*F. Klevenhusen, K. Deckardt, Ö. Salmaz, S. Wimmer, A. Muro-Reyes, R. Khiaosa-ard, R. Chizzola and Q. Zebeli* 736–744
- Source and frequency of dry season lipid supplementation of grazing, finishing cattle  
*Márcia Cristina Araújo Santana, Bruno Ramalho Vieira, Diogo Fleury Costa, Paulo Henrique Moura Dian, Giovanni Fiorentini, Roberta Carrilho Canesin, Gener Tadeu Pereira, Ricardo Andrade Reis and Telma Teresinha Berchielli* 745–751
- Comparison between feeding rumen-protected choline and vitamin E on milk yield and blood metabolites in early lactation dairy cows  
*Mohammadreza Rahmani, Mehdi Dehghan-banadaky and Romic Kamalyan* 752–757
- Age and season effects on quality of diets selected by Criollo crossbred goats on rangeland  
*Leticia Gaytán, Abdel-Fattah Z. M. Salem, Alvaro Rodríguez, Jose E. García, Jose R. Arévalo and Miguel Mellado* 758–765
- Impact of simulated semiarid tropical environmental conditions on growth, physiological adaptability, blood metabolites and endocrine responses in Malpura ewes  
*S. Indu, V. Sejian and S. M. K. Naqvi* 766–776
- Productivity and gastrointestinal tract responses of rabbits fed diets containing rapeseed cake and wheat distillers dried grains with solubles  
*A. Gugolek, J. Juškiewicz, P. Wyczling, D. Kowalska, J. Strychalski, M. Konstantynowicz and C. Zwoliński* 777–785
- Effects of weaning beef cattle in two stages or by abrupt separation on nasal abrasions, behaviour, and weight gain  
*Christian Lambertz, Peter R. Bowen, Georg Erhardt and Matthias Gauly* 786–792
- Effects of large or small furnished cages on performance, welfare and egg quality of laying hens  
*Fanyu Meng, Donghua Chen, Xiang Li, Jianhong Li and Jun Bao* 793–798
- Establishment of optimum regression models and determination of relationships between body measurements and slaughter traits in Japanese quails by path analysis  
*Fatih Uckardes, Dogan Narinc and Hande Kucukonder* 799–803
- A comparison of growth, carcass traits, and tissue composition of ‘Segureña’ lambs raised either in extensive or intensive production systems  
*E. Armero and A. Falagán* 804–811
- Gossypol was not detected in the longissimus muscle of lambs fed several forms of cottonseed  
*P. G. Viana, P. M. T. Lima, T. P. Paim, J. R. Souza, A. M. M. Dantas, E. F. Pereira, V. Gonçalves, C. McManus, A. L. Abdalla and H. Louvandini* 812–817
- Re-used progesterone devices efficiently synchronise oestrus and ovulation after autoclaving process in Toggenburg goats during the breeding season  
*J. M. G. Souza-Fabjan, C. A. A. Torres, A. L. R. S. Maia, F. Z. Brandão, E. Oba, M. J. Bertoldo and J. F. Fonseca* 818–822