

ANIMAL PRODUCTION SCIENCE

CONTENTS Volume 61, Issue 1, 2021, 1–100

Genetics and Genomics

The performance of the Border Leicester in Australia

S. A. Barwick, D. J. Brown, B. R. Cullis, A. K. Bell, T. J. May, M. W. Lollback, I. M. Rogan, I. D. Killeen, G. Caffery, L. R. Piper, B. M. Bindon, J. F. Wilkins and D. G. Fowler 1–7

Physiology, Endocrinology and Reproduction

In ovo corticosterone administration alters body composition irrespective of arginine supplementation in 35-day-old female chicken meat birds

Joshua L. Angove, Nicky-Lee Willson, David J. Cadogan and Rebecca E. A. Forder 8–16

Nutrition and Metabolism

Pasture allowance and duration: the effect of restriction on dry-matter intake, energy balance and indicators of metabolic health in early lactation dairy cows

Aisling Claffey, Luc Delaby, Eva Lewis, Tommy M. Boland, Norann Galvin and Emer Kennedy 17–25

Tannin-rich forage as a methane mitigation strategy for cattle and the implications for rumen microbiota

Gisele M. Fagundes, Gabriela Benetel, Mateus M. Carriero, Ricardo L. M. Sousa, James P. Muir, Robert O. Macedo and Ives C. S. Bueno 26–37

Feed Quality and Performance

Oil palm meal and urea pellet can partially replace soybean meal in the rations of lactating dairy cows

Ratchataporn Lunsin, Suntriporn Duanyai and Ruangyote Pilajun 38–46

Performance of lactating buffaloes in pasture supplemented with palm-kernel cake

L. T. O. Galvão, G. C. Reis, C. C. Silva, A. S. Pinto, D. M. Santos, E. M. Lima, D. I. Gomes, L. R. S. Oliveira, K. S. Alves, P. M. Santos and R. Mezzomo 47–54

Health and Well-being

Animal welfare and biosecurity assessment: a comparison between Italian and Irish beef cattle rearing systems

Francesca Fusi, Valentina Lorenzi, Giorgio Franceschini, Riccardo Compiani, Valeria Harper, Jessica Ginestreti, Giandomenico Ferrara, Carlo Angelo Sgoifo Rossi and Luigi Bertocchi 55–63

Effect of dietary supplementation with essential oils and a *Bacillus* probiotic on growth performance, diarrhoea and blood metabolites in weaned pigs

B. F. Tan, T. Lim and W. Boontiam 64–71

Production Systems, Environment and Management

Bio-economic evaluation of grazing-management options for beef cattle enterprises during drought episodes in semiarid grasslands of northern Australia

M. K. Bowen, F. Chudleigh and D. Phelps 72–83

Production Systems in Transition

Genetic characterisation of non-descript cattle populations in communal areas of South Africa

M. D. Mamogobo, N. O. Mapholi, K. A. Nephawe, T. L. Nedambale, T. J. Mpofu, Y. P. Sanarana and B. J. Mtleni 84–91

Productive and reproductive performance of crossbred and indigenous dairy cows at smallholdings in selected towns of Jimma Zone, Ethiopia

Belay Duguma 92–100