Access leading journals in your subject

## Cambridge Core

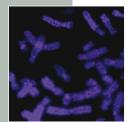
Explore today at cambridge.org/core

Cambridge Core











## FEBRUARY 2017 VOLUME 11 NUMBER 2

## CONTENTS

Nutrition Furbeyre, H., van Milgen, J., Mener, T., Gloaguen, M. and Labussière, E. Effects of dietary supplementation with freshwater microalgae on growth performance, nutrient digestibility and gut health in weaned piglets	183
Wei, HK., Xue, HX., Zhou, Z.X. and Peng, J. A carvacrol–thymol blend decreased intestinal oxidative stress and influenced selected microbes without changing the messenger RNA levels of tight junction proteins in jejunal mucosa of weaning piglets	193
Kim, J. S., Ingale, S. L., Hosseindoust, A. R., Lee, S. H., Lee, J. H. and Chae, B. J. Effects of mannan level and $\beta$ -mannanase supplementation on growth performance, apparent total tract digestibility and blood metabolites of growing pigs	202
Prenafeta-Boldú, F. X., Fernández, B., Viñas, M., Lizardo, R., Brufau, J., Owusu-Asiedu, A., Walsh, M. C. and Awati, Effect of <i>Bacillus</i> spp. direct-fed microbial on slurry characteristics and gaseous emissions in growing pigs fed with high fibre-based diets	, <i>A</i> . 209
Physiology and functional biology of systems Mohammadalipour, R., Rahmani, H. R., Jahanian, R., Riasi, A., Mohammadalipour, M. and Nili, N. Effect of early feed restriction on physiological responses, performance and ascites incidence in broiler chickens rais in normal or cold environment	sed 219
Miretti, S., Volpe, M. G., Martignani, E., Accornero, P. and Baratta, M. Temporal correlation between differentiation factor expression and microRNAs in Holstein bovine skeletal muscle	227
Zhang, J., Liu, Y., Zhu, Z., Yang, S., Ji, K., Hu, S., Liu, X., Yao, J., Fan, R. and Dong, C. Role of microRNA508-3p in melanogenesis by targeting microphthalmia transcription factor in melanocytes of alpac	a 236
Behaviour, welfare and health Buijs, S., Ampe, B. and Tuyttens, F. A. M.	
Sensitivity of the Welfare Quality <sup>®</sup> broiler chicken protocol to differences between intensively reared indoor flocks: which factors explain overall classification?	244
Dalla Costa, E., Dai, F., Lebelt, D., Scholz, P., Barbieri, S., Canali, E. and Minero, M. Initial outcomes of a harmonized approach to collect welfare data in sport and leisure horses	254
Arnott, G., Ferris, C. P. and O'Connell, N. E. Review: welfare of dairy cows in continuously housed and pasture-based production systems	261
Llonch, P., Haskell, M. J., Dewhurst, R. J. and Turner, S. P. Review: current available strategies to mitigate greenhouse gas emissions in livestock systems: an animal welfare perspective	274
Freitas-de-Melo, A., Ungerfeld, R., Hötzel, M. J., Orihuela, A. and Pérez-Clariget, R. Low pasture allowance until late gestation in ewes: behavioural and physiological changes in ewes and lambs from lambing to weaning	285
Holmøy, I. H., Waage, S., Granquist, E. G., L'Abée-Lund, T. M., Ersdal, C., Hektoen, L. and Sørby, R. Early neonatal lamb mortality: postmortem findings	295
McGlone, J. J., Thompson, G. and Devaraj, S. Short communication: A natural interomone 2-methyl-2-butenal stimulates feed intake and weight gain in weaned pig	gs 306
Farming systems and environment Accatino, F, Ward, D., Wiegand, K. and De Michele, C. Carrying capacity in arid rangelands during droughts: the role of temporal and spatial thresholds	309
Martin-Collado, D., Hely, F., Byrne, T. J., Evans, R., Cromie, A. R. and Amer, P. R. Farmer views on calving difficulty consequences on dairy and beef farms	318
Adamczyk, K., Makulska, J., Jagusiak, W. and Węglarz, A. Associations between strain, herd size, age at first calving, culling reason and lifetime performance characteristics in Holstein-Friesian cows	327
Product quality, human health and well-being Alnahhas, N., Berri, C., Chabault-Dhuit, M., Bourin, M., Arnould, C. and Le Bihan-Duval, E. Combined effect of divergent selection for breast muscle ultimate pH and dietary amino acids on chicken	
performance, physical activity and meat quality Schwarz, C., Ebner, K. M., Furtner, F., Duller, S., Wetscherek, W., Wernert, W., Kandler, W. and Schedle, K.	335
Influence of high inorganic selenium and manganese diets for fattening pigs on oxidative stability and pork quality pa Kliem, K. E., Humphries, D. J., Reynolds, C. K., Morgan, R. and Givens, D. I.	arameters 345
Effect of oilseed type on milk fatty acid composition of individual cows, and also bulk tank milk fatty acid	

composition from commercial farms

## Cambridge Core

For futher information about this journal please go to the journal web site at: www.cambridge.org/animal





354