



Access
leading
journals in
your subject

Cambridge Core

Explore today at [cambridge.org/core](https://www.cambridge.org/core)

Cambridge Core



CAMBRIDGE
UNIVERSITY PRESS

CONTENTS

Breeding and genetics

- Ragab, M., Piles, M., Quintanilla, R. and Sánchez, J. P.
Indirect genetic effect model using feeding behaviour traits to define the degree of interaction between mates: an implementation in pigs growth rate 231
- Haile, A., Hilali, M., Hassen, H., Lobo, R. N. B. and Rischkowsky, B.
Estimates of genetic parameters and genetic trends for growth, reproduction, milk production and milk composition traits of Awassi sheep 240
- Häggman, J., Christensen, J. M., Mäntysaari, E. A. and Juga, J.
Genetic parameters for endocrine and traditional fertility traits, hyperketonemia and milk yield in dairy cattle 248

Nutrition

- Gerez, J. R., Buck, L. Y., Marutani, V. H. B., Calliari, C. M., Cunha, L. S. and Loureiro Bracarense, A. P. F. R.
Effects of chito-oligosaccharide on piglet jejunal explants: an histological approach 256
- Pi, Y., Gao, K., Peng, Y., Mu, C. L. and Zhu, W. Y.
Antibiotic-induced alterations of the gut microbiota and microbial fermentation in protein parallel the changes in host nitrogen metabolism of growing pigs 262
- Pérez de Nanclares, M., Marcussen, C., Tauson, A.-H., Hansen, J. Ø., Kjos, N. P., Mydland, L. T., Bach Knudsen, K. E. and Øverland, M.
Increasing levels of rapeseed expeller meal in diets for pigs: effects on protein and energy metabolism 273
- Lins, T. O. J. D'A., Terry, S. A., Silva, R. R., Pereira, L. G. R., Jancewicz, L. J., He, M. L., Wang, Y., McAllister, T. A. and Chaves, A. V.
Effects of the inclusion of *Moringa oleifera* seed on rumen fermentation and methane production in a beef cattle diet using the rumen simulation technique (Rusitec) 283
- Madder, K. M., McKinnon, J. J., Torres, G. W., Krone, K. G., Duncombe, J. L., Luby, C. D. and Buchanan, F. C.
Feedlot performance and immune function analysis of implanted and non-implanted steers selected for alcohol dehydrogenase 1 C (ADH1C) genotype and fed a low vitamin A diet 292
- Shen, Y. Z., Ding, L. Y., Chen, L. M., Xu, J. H., Zhao, R., Yang, W. Z., Wang, H. R. and Wang, M. Z.
Feeding corn grain steeped in citric acid modulates rumen fermentation and inflammatory responses in dairy goats 301
- Kliem, K. E., Humphries, D. J., Kirton, P., Givens, D. I. and Reynolds, C. K.
Differential effects of oilseed supplements on methane production and milk fatty acid concentrations in dairy cows 309

Physiology and Functional Biology

- Nazar, F. N., Videla, E. A. and Marin, R. H.
Thymol supplementation effects on adrenocortical, immune and biochemical variables recovery in Japanese quail after exposure to chronic heat stress 318
- Liu, L., Liu, H., Ning, L. and Li, F.
Rabbit SLC15A1, SLC7A1 and SLC1A1 genes are affected by site of digestion, stage of development and dietary protein content 326
- Fausto, D. A., Ferraz, A. L. J., Delgado, E. F., Andrade, S. C. S., Coutinho, L. L. and Feijó, G. L. D.
Transcriptome changes in muscle of Nelore cows submitted to recovery weight gain under grazing condition 333
- Wieland, M., Virkler, P. D., Borkowski, A. H., Älveby, N., Wood, P. and Nydam, D. V.
An observational study investigating the association of ultrasonographically assessed machine milking-induced changes in teat condition and teat-end shape in dairy cows 341
- Fontes, P. L. P., Henry, D. D., Ciriaco, F. M., Oosthuizen, N., Cooke, R. F., Mercadante, V. R. G., DiLorenzo, N. and Lamb, G. C.
Effects of polyunsaturated fatty acids supplementation on reproductive parameters associated with the performance of suckled beef cows 349

Welfare, Behaviour and Health Management

- Sjöström, K., Sternberg-Lewerin, S., Blanco-Penedo, I., Duval, J. E., Krieger, M., Emanuelson, U. and Fall, N.
Effects of a participatory approach, with systematic impact matrix analysis in herd health planning in organic dairy cattle herds 358
- von Waldburg-Zeil, C. G., van Staaveren, N. and Harlander-Matauschek, A.
Do laying hens eat and forage in excreta from other hens? 367
- Oliveira, J. L., Xin, H. and Wu, H.
Impact of feeder space on laying hen feeding behavior and production performance in enriched colony housing 374
- de Jong, I. C. and Gunnink, H.
Effects of a commercial broiler enrichment programme with or without natural light on behaviour and other welfare indicators 384
- Norring, M., Valros, A., Bergman, P., Marchant-Forde, J. N. and Heinonen, M.
Body condition, live weight and success in agonistic encounters in mixed parity groups of sows during gestation 392
- Pilatti, J. A., Vieira, F. M. C., Rankrape, F. and Vismara, E. S.
Diurnal behaviors and herd characteristics of dairy cows housed in a compost-bedded pack barn system under hot and humid conditions 399

Livestock Farming Systems

- Ibidi, R. and Ben Salem, H.
Water footprint assessment of sheep farming systems based on farm survey data 407
- Camara, Y., Moola, N., Sow, F., Sissokho, M. M. and Antoine-Moussiaux, N.
Analysing innovations among cattle smallholders to evaluate the adequacy of breeding programs 417

Quality of Animal Products

- Devincenzi, T., Prunier, A., Meteau, K. and Prache, S.
How does barley supplementation in lambs grazing alfalfa affect meat sensory quality and authentication? 427
- Valenti, B., Natalello, A., Vasta, V., Campidonico, L., Roscini, V., Mattioli, S., Pauselli, M., Priolo, A., Lanza, M. and Luciano, G.
Effect of different dietary tannin extracts on lamb growth performances and meat oxidative stability: comparison between mimosa, chestnut and tara 435
- Marino, R., della Malva, A., Caroprese, M., de Palo, P., Santillo, A., Sevi, A. and Albenzio, M.
Effects of whole linseed supplementation and treatment duration on fatty acid profile and endogenous bioactive compounds of beef muscle 444

