

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

Schiavo, G., Bertolini, F., Galimberti, G., Bovo, S., Dall'Olio, S., Nanni Costa, L., Gallo, M. and Fontanesi, L.
A machine learning approach for the identification of population-informative markers from high-throughput genotyping data: application to several pig breeds 223

Herrera-Cáceres, W., Ragab, M. and Sánchez, J. P.
Indirect genetic effects on the relationships between production and feeding behaviour traits in growing Duroc pigs 233

Pegolo, S., Cecchinato, A., Savoia, S., Di Stasio, L., Paucullo, A., Brugiapaglia, A., Bittante, G. and Albera, A.
Genome-wide association and pathway analysis of carcass and meat quality traits in Piemontese young bulls 243

Nutrition

Nguyen-Ba, H., van Milgen, J. and Taghipoor, M.
A procedure to quantify the feed intake response of growing pigs to perturbations 253

Cardinal, K. M., Vieira, M. S., Warpechowski, M. B., Ziegelmann, P. K., Montagne, L., Andretta, I. and Ribeiro, A. M. L.
Modeling nutritional and performance factors that influence the efficiency of weight gain in relation to excreted nitrogen in weaning piglets 261

Cardinal, K. M., Vieira, M. S., Warpechowski, M. B., Ziegelmann, P. K., Montagne, L., Andretta, I. and Ribeiro, A. M. L.
Corrigendum: Modeling nutritional and performance factors that influence the efficiency of weight gain in relation to excreted nitrogen in weaning piglets 268

Schop, M., Jansman, A. J. M., de Vries, S. and Gerrits, W. J. J.
Increased diet viscosity by oat β -glucans decreases the passage rate of liquids in the stomach and affects digesta physicochemical properties in growing pigs 269

Panisson, J. C., Maiorka, A., Oliveira, S. G., Saraiva, A., Duarte, M. S., Silva, K. F., Santos, E. V., Tolentino, R. L. S., Lopes, I. M. G., Guedes, L. L. M. and Silva, B. A. N.
Effect of ractopamine and conjugated linoleic acid on performance of late finishing pigs 277

Strathe, A. V., Bruun, T. S., Tauson, A.-H., Theil, P. K. and Hansen, C. F.
Increased dietary protein for lactating sows affects body composition, blood metabolites and milk production 285

Yang, C. T., Wang, C. M., Zhao, Y. G., Chen, T. B., Aubry, A., Gordon, A. W. and Yan, T.
Updating maintenance energy requirement for the current sheep flocks and the associated effect of nutritional and animal factors 295

Alimirzaei, M., Alijoo, Y. A., Dehghan-Banadaky, M. and Eslamizad, M.
The effects of feeding high or low milk levels in early life on growth performance, fecal microbial count and metabolic and inflammatory status of Holstein female calves 303

Physiology and Functional Biology
Li, X., Fu, X., Yang, G. and Du, M.
Review: Enhancing intramuscular fat development via targeting fibro-adipogenic progenitor cells in meat animals 312

Lynegaard, J. C., Hansena, C. F., Kristensen, A. R. and Amdi, C.
Body composition and organ development of intra-uterine growth restricted pigs at weaning 322

Hernández-Castellano, L. E., Hernandez, L. L. and Bruckmaier, R. M.
Review: Endocrine pathways to regulate calcium homeostasis around parturition and the prevention of hypocalcemia in periparturient dairy cows 330

Vanacker, N., Girard, C. L., Blouin, R. and Lacasse, P.
Effects of feed restriction and supplementary folic acid and vitamin B₁₂ on immune cell functions and blood cell populations in dairy cows 339

Ding, L. Y., Wang, Y. F., Shen, Y. Z., Zhou, G., Wu, T. Y., Zhang, X., Wang, M. Z., Loo, J. J. and Zhang, J.
Effects of intravenous arginine infusion on inflammation and metabolic indices of dairy cows in early lactation 346

Hannah, W. A., Astatkie, T. and Rathgeber, B. M.
Hatch rate of laying hen strains provided a photoperiod during incubation 353

Zhua, Y. F., Bodingaa, M. B., Zhou, J. H., Zhu, L. Q., Cao, Y. L., Ren, Z. Z. and Yang, X. J.
Effects of in ovo injection of vitamin C on heat shock protein and metabolic genes expression 360

Welfare, Behaviour and Health Management
Büttner, K., Czycholl, I., Mees, K. and Krieter, J.
Social network analysis in pigs: impacts of significant dyads on general network and centrality parameters 368

Byrd, C. J., Johnson, J. S., Radcliffe, J. S., Craig, B. A., Eicher, S. D. and Lay, Jr., D. C.
Nonlinear analysis of heart rate variability for evaluating the growing pig stress response to an acute heat episode 379

Villet, C., Martin, C., Bodin, J., Durand, D., Graulet, B., Ferlay, A., Mialon, M. M., Trevisi, E. and Silberberg, M.
Combinations of non-invasive indicators to detect dairy cows submitted to high-starch-diet challenge 388

Livestock Farming Systems
Marcondes, M. I., Mariano, W. H. and De Vries, A.
Production, economic viability and risks associated with switching dairy cows from drylots to compost bedded pack systems 399

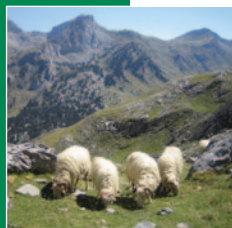
Piette, D., Norton, T., Exadaktylos, V. and Berckmans, D.
Individualised automated lameness detection in dairy cows and the impact of historical window length on algorithm performance 409

Benni, S., Pastell, M., Bonora, F., Tassinari, P. and Torreggiani, D.
A generalised additive model to characterise dairy cows' responses to heat stress 418

Benni, S., Pastell, M., Bonora, F., Tassinari, P. and Torreggiani, D.
Corrigendum: A generalised additive model to characterise dairy cows' responses to heat stress 425

Quality of Animal Products
Ferrer, P., Calvet, S., García-Rebollar, P., de Blas, C., Jiménez-Belenguer, A. I., Hernández, P., Piquer, O. and Cerisuelo, A.
Partially defatted olive cake in finishing pig diets: implications on performance, faecal microbiota, carcass quality, slurry composition and gas emission 426

Dong, L., Zhong, Z. X., Cui, H. H., Wang, S. N., Luo, Y., Yu, L. H., Loo, J. J. and Wang, H. R.
Effects of rumen-protected betaine supplementation on meat quality and the composition of fatty and amino acids in growing lambs 435



Cambridge Core

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



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS