

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

Rodríguez, F. H., Cáceres, G., Lhorente, J. P., Newman, S., Bangera, R., Tadich, T., Neira, R. and Yáñez, J. M.
Genetic (co)variation in skin pigmentation patterns and growth in rainbow trout 675

Wang, Z., Sun, H., Chen, Q., Zhang, X., Wang, Q. and Pan, Y.
A genome scan for selection signatures in Taihu pig breeds using next-generation sequencing 683

Guzzo, N., Sartori, C. and Mantovani, R.
Analysis of genetic correlations between beef traits in young bulls and primiparous cows belonging to the dual-purpose Rendena breed 694

Nutrition

Schaafstra, F. J. W. C., van Doorn, D. A., Schonewille, J. T., van den Boom, R., Verschuur, M., Blok, M. C. and Hendriks, W. H.
Evaluation of titanium dioxide and chromic oxide as digestibility markers in ponies fed alfalfa hay in relation to marker dosing frequency 702

Titze, N., Krieg, J., Steingass, H. and Rodehutschord, M.
Variation of lupin protein degradation in ruminants studied *in situ* and using chemical protein fractions 709

Niderkorn, V., Martin, C., Bernard, M., Le Morvan, A., Rochette, Y. and Baumont, R.
Effect of increasing the proportion of chicory in forage-based diets on intake and digestion by sheep 718

Prado, L. A., Ferlay, A., Nozière, P. and Schmidely, P.
Predicting duodenal flows and absorption of fatty acids from dietary characteristics in ovine and bovine species: a meta-analysis approach 727

Belanche, A., Cooke, J., Jones, E., Worgan, H. J. and Newbold, C. J.
Short- and long-term effects of conventional and artificial rearing strategies on the health and performance of growing lambs 740

Weerathilake, W. A. D. V., Brassington, A. H., Williams, S. J., Kwong, W. Y., Sinclair, L. A. and Sinclair, K. D.
Added dietary cobalt or vitamin B₁₂, or injecting vitamin B₁₂ does not improve performance or indicators of ketosis in pre- and post-partum Holstein-Friesian dairy cows 750

Physiology and Functional Biology

Goudet, G., Nadal-Desbarats, L., Douet, C., Savoie, J., Staub, C., Venturi, E., Ferchaud, S., Boulot, S. and Prunier, A.
Salivary and urinary metabolome analysis for pre-puberty-related biomarkers identification in porcine 760

Ramsay, T. G., Blomberg, L. A., Elsasser, T. H. and Caperna, T. J.
 α -1 acid glycoprotein inhibits insulin responses by glucose oxidation, protein synthesis and protein breakdown in mouse C2C12 myotubes 771

Chang, W. H., Zheng, A. J., Chen, Z. M., Zhang, S., Cai, H. Y. and Liu, G. H.
 β -Casomorphin increases fat deposition in broiler chickens by modulating expression of lipid metabolism genes 777

García, M. L., Blasco, A., García, M. E. and Argente, M. J.
Correlated response in body condition and energy mobilisation in rabbits selected for litter size variability 784

Holanda, D. M., Marcolla, C. S., Guimarães, S. E. F., Neves, M. M., Hausman, G. J., Duarte, M. S., Abreu, M. L. T. and Saraiva, A.
Dietary L-arginine supplementation increased mammary gland vascularity of lactating sows 790

Little, M. W., Wylie, A. R. G., O'Connell, N. E., Welsh, M. D., Grelet, C., Bell, M. J., Gordon, A. and Ferris, C. P.
Immunological effects of altering the concentrate inclusion level in a grass silage-based diet for early lactation Holstein Friesian cows 799

Welfare, Behaviour and Health Management

McGee, M. and Earley, B.
Review: passive immunity in beef-suckler calves 810

Schild, S.-L. A., Foldager, L., Bonde, M. K., Andersen, H. M.-L. and Pedersen, L. J.
Does hut climate matter for piglet survival in organic production? 826

vom Brocke, A. L., Karnholz, C., Madey-Rindermann, D., Gaulty, M., Leeb, C., Winckler, C., Schrader, L. and Dippel, S.
Tail lesions in fattening pigs: relationships with *postmortem* meat inspection and influence of a tail biting management tool 835

Livestock Farming Systems

van der Linden, A., van de Ven, G. W. J., Oosting, S. J., van Ittersum, M. K. and de Boer, I. J. M.
LiGAPS-Beef, a mechanistic model to explore potential and feed-limited beef production 1: model description and illustration 845

van der Linden, A., van de Ven, G. W. J., Oosting, S. J., van Ittersum, M. K. and de Boer, I. J. M.
LiGAPS-Beef, a mechanistic model to explore potential and feed-limited beef production 2: sensitivity analysis and evaluation of sub-models 856

van der Linden, A., van de Ven, G. W. J., Oosting, S. J., van Ittersum, M. K. and de Boer, I. J. M.
LiGAPS-Beef, a mechanistic model to explore potential and feed-limited beef production 3: model evaluation 868

Quality of Animal Products

Ben Abdelmalek, Y., Smeti, S., Mekki, I., Hajji, H., Essid, I. and Atti, N.
Rehabilitation of Barbarine cull ewes using rosemary residues and linseed: effect on weight gain, carcass characteristics and meat quality 879

Serrano, M. P., Maggiolino, A., Lorenzo, J. M., De Palo, P., García, A., Landete-Castillejos, T., Gambín, P., Cappelli, J., Dominguez, R., Pérez-Barbería, F. J. and Gallego, L.
Meat quality of farmed red deer fed a balanced diet: effects of supplementation with copper bolus on different muscles 888

