



Access
leading
journals in
your subject

Cambridge Core

Explore today at cambridge.org/core

Cambridge Core

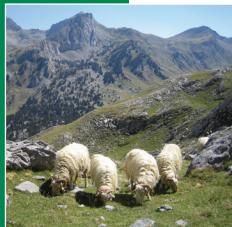


CAMBRIDGE
UNIVERSITY PRESS

CONTENTS

Breeding and genetics

- König, S. and May, K.
Invited review: Phenotyping strategies and quantitative-genetic background of resistance, tolerance and resilience associated traits in dairy cattle 897
Costa, A., Lopez-Villalobos, N., Visentin, G., De Marchi, M., Cassandro, M. and Penasa, M.
Heritability and repeatability of milk lactose and its relationships with traditional milk traits, somatic cell score and freezing point in Holstein cows 909
Juengel, J. L., Hickey, S. M., Clarke, S. M., Cullen, N. G., McEwan, J. C. and Dodds, K. G.
Heritability of ram mating success in multi-sire breeding situations 917
Davoli, R., Catillo, G., Serra, A., Zappaterra, M., Zambonelli, P., Meo Zilio, D., Steri, R., Mele, M., Buttazzoni, L. and Russo, V.
Genetic parameters of backfat fatty acids and carcass traits in Large White pigs 924



Nutrition

- Torno, C., Staats, S., de Pascual-Teresa, S., Rimbach, G. and Schulz, C.
Effects of resveratrol and genistein on growth, nutrient utilization and fatty acid composition of rainbow trout 933
Jansman, A. J. M., Cirot, O., Corrent, E., Lambert, W., Ensink, J. and van Diepen, J. Th. M.
Interaction and imbalance between indispensable amino acids in young piglets 941
Ruiz-Ascacíbar, I., Stoll, P., Bee, G., and Schlegel, P.
Dynamics of the mineral composition and deposition rates in the empty body of entire males, castrates and female pigs 950
Beiranvand, H., Khani, M., Ahmadi, F., Omidi-Mirzaei, H., Ariana, M. and Bayat, A. R.
Does adding water to a dry starter diet improve calf performance during winter? 959
Mousavi, F., Karimi-Dehkordi, S., Kargar, S. and Ghaffari, M. H.
Effect of chromium supplementation on growth performance, meal pattern, metabolic and antioxidant status and insulin sensitivity of summer-exposed weaned dairy calves 968
Wang, M., Wang, R., Liu, M., Beauchemin, K. A., Sun, X. Z., Tang, S. X., Jiao, J. Z., Tan, Z. L. and He, Z. X.
Dietary starch and rhubarb supplement increase ruminal dissolved hydrogen without altering rumen fermentation and methane emissions in goats 975

Physiology and Functional Biology

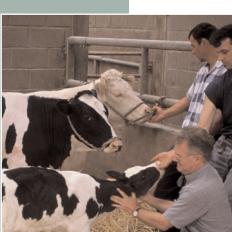
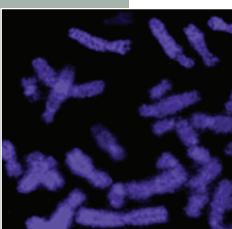
- Lu, L., Zhao, L. L., Dong, S. Y., Liao, X. D., Dong, X. Y., Zhang, L. Y. and Luo, X. G.
Dietary supplementation of organic or inorganic chromium modulates the immune responses of broilers vaccinated with Avian Influenza virus vaccine 983
Xue, Y. F., Guo, C. Z., Hu, F., Sun, D. M., Liu, J. H. and Mao, S. Y.
Molecular mechanisms of lipid metabolism disorder in livers of ewes with pregnancy toxemia 992
Yasui, T., Ehrhardt, R. M., Bowman, G. R., Vázquez-Añón, M., Richards, J. D., Atwell, C. A. and Overton, T. R.
Effects of trace mineral amount and source on aspects of oxidative metabolism and responses to intramammary lipopolysaccharide challenge in midlactation dairy cows 1000
Nascimento, M., Nascimento, A. C. C., Dekkers, J. C. M. and Serão, N. V. L.
Using quantile regression methodology to evaluate changes in the shape of growth curves in pigs selected for increased feed efficiency based on residual feed intake 1009
Abeni, F., Petrera, F. and Le Cozler, Y.
Effects of feeding treatment on growth rates, metabolic profiles and age at puberty, and their relationships in dairy heifers 1020

Welfare, Behaviour and Health Management

- Brünger, J., Dippel, S., Koch, R. and Veit, C.
'Tailception': using neural networks for assessing tail lesions on pictures of pig carcasses 1030
Larsen, M. L. V., Andersen, H. M.-L. and Pedersen, L. J.
Changes in activity and object manipulation before tail damage in finisher pigs as an early detector of tail biting 1037
Yun, J., Han, T., Björkman, S., Nystén, M., Hasan, S., Valros, A., Oliviero, C., Kim, Y. and Peltoniemi, O.
Factors affecting piglet mortality during the first 24 h after the onset of parturition in large litters: effects of farrowing housing on behaviour of postpartum sows 1045
Zhang, Y. and Phillips, C. J. C.
Climatic influences on the mortality of sheep during long-distance sea transport 1054

Livestock Farming Systems

- Veyset, P., Lherm, M., Boussemart, J. P. and Natier, P.
Generation and distribution of productivity gains in beef cattle farming: Who are the winners and losers between 1980 and 2015? 1063
Kok, A., Lehmann, J. O., Kemp, B., Hogeweegen, H., van Middelaar, C. E., de Boer, I. J. M. and van Kreijsel, A. T. M.
Production, partial cash flows and greenhouse gas emissions of simulated dairy herds with extended lactations 1074
Orjales, I., Lopez-Alonso, M., Miranda, M., Alaiz-Moretó, H., Resch, C. and López, S.
Dairy cow nutrition in organic farming systems. Comparison with the conventional system 1084
Quality of Animal Products
- Belloir, P., Lessire, M., Lambert, W., Corrent, E., Berri, C. and Tesseraud, S.
Changes in body composition and meat quality in response to dietary amino acid provision in finishing broilers 1094
Tomažin, U., Batorek-Lukač, N., Škrlep, M., Prevolnik-Povše, M. and Čandek-Potokar, M.
Meat and fat quality of Krškopolje pigs reared in conventional and organic production systems 1103
Cividini, A., Simčič, M., Stiblji, V., Vidrih, M. and Potočnik, K.
Changes in fatty acid profile of Bovec sheep milk due to different pasture altitude 1111



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