

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

- Ye, S., Yuan, X., Huang, S., Zhang, H., Chen, Z., Li, J., Zhang, X. and Zhang, Z.
Comparison of genotype imputation strategies using a combined reference panel for chicken population 1119
- Wolfová, M., Krupa, E., Krupová, Z. and Žáková, E.
Economic weights of maternal and direct traits of pigs calculated by applying gene flow methods 1127

Nutrition

- Ognik, K., Kozłowski, K., Stępniewska, A., Szlązak, R., Tutaj, K., Zdurczyk, Z. and Jankowski, J.
The effect of manganese nanoparticles on performance, redox reactions and epigenetic changes in turkey tissues 1137
- Zhang, C., Chen, K. K., Zhao, X. H., Wang, C. and Geng, Z. Y.
Effect of L-theanine on the growth performance, immune function, and jejunum morphology and antioxidant status of ducks 1145
- Chen, H., Wierenga, P. A., Hendriks, W. H. and Jansman, A. J. M.
In vitro protein digestion kinetics of protein sources for pigs 1154

- Karam Babaei, M., Mirzaei-Alamouti, H. and Nikkhah, A.
Cereals level and source effects on rumen fermentation, colostrum and milk properties, and blood metabolites in periparturient ewes 1165
- Kargar, S., Habibi, Z. and Karimi-Dehkordi, S.
Grain source and chromium supplementation: effects on feed intake, meal and rumination patterns, and growth performance in Holstein dairy calves 1173

- Muñoz-Tamayo, R., Ramírez Agudelo, J. F., Dewhurst, R. J., Miller, G., Vernon, T. and Kettle, H.
A parsimonious software sensor for estimating the individual dynamic pattern of methane emissions from cattle 1180
- Minnee, E. M. K., Waghorn, G. C., Gregorini, P., Bryant, R. H. and Chapman, D. F.
Characteristics of boli formed by dairy cows upon ingestion of fresh ryegrass, lucerne or chicory 1188

- Rodrigues, J. P. P., de Paula, R. M., Rennó, L. N., Costa, G. P., Hamade, V. C. E., Valadares Filho, S. C., Rennó, F. P. and Marcondes, M. I.
Effects of soybean oil supplementation on performance, digestion and metabolism of early lactation dairy cows fed sugarcane-based diets 1198

Physiology and Functional Biology

- Cooke, R. F., Moriel, P., Cappellozza, B. I., Miranda, V. F. B., Batista, L. F. D., Colombo, E. A., Ferreira, V. S. M., Miranda, M. F., Marques, R. S. and Vasconcelos, J. L. M.
Effects of temperament on growth, plasma cortisol concentrations and puberty attainment in Nelore beef heifers 1208

- Humer, E., Kröger, I., Neubauer, V., Reisinger, N. and Zebeli, Q.
Supplementation of a clay mineral-based product modulates plasma metabolomic profile and liver enzymes in cattle fed grain-rich diets 1214
- Charton, C., Larroque, H., Pochet, S., Germon, P., Lequeux, G. and Guinard-Flament, J.
Response profiles of dairy cows to a single 24-h milking interval in relation with milk proteolysis, udder expansion and immune traits 1224

- Elneser, S. S., Ropy, A. and Abdel-Razik, A. H.
Effect of dietary sodium butyrate supplementation on growth, blood biochemistry, haematology and histomorphometry of intestine and immune organs of Japanese quail 1234

Welfare, Behaviour and Health Management

- Li, G., Li, B., Zhao, Y., Shi, Z., Liu, Y. and Zheng, W.
Layer pullet preferences for light colors of light-emitting diodes 1245
- Li, C., Lesuisse, J., Schallier, S., Lamberigts, C., Wang, Y., Driessen, B., Everaert, N. and Buyse, J.
The learning ability and memory retention of broiler breeders: 1 effects of reduced balanced protein diet on reward based learning 1252

- Li, C., Schallier, S., Lesuisse, J., Lamberigts, C., Driessen, B., Everaert, N. and Buyse, J.
The learning ability and memory retention of broiler breeders: 2 transgenerational effects of reduced balanced protein diet on reward-based learning 1260
- de Jong, I. C., Gunnink, H., van Hattum, T., van Riel, J. W., Raaijmakers, M. M. P., Zoet, E. S. and van den Brand, H.
Comparison of performance, health and welfare aspects between commercially housed hatchery-hatched and on-farm hatched broiler flocks 1269

- Contreras-Aguilar, M. D., Escibano, D., Qulles, A., López-Arjona, M., Cerón, J. J., Martínez-Subiela, S., Hevia, M. L. and Tecles, F.
Evaluation of new biomarkers of stress in saliva of sheep 1278
- Hemsworth, P. H., Rice, M., Borg, S., Edwards, L. E., Ponnampalam, E. N. and Coleman, G. J.
Relationships between handling, behaviour and stress in lambs at abattoirs 1287

- Fiol, C., Aguerre, M., Carriquiry, M. and Ungerfeld, R.
Social dominance affects intake rate and behavioral time budget in pre-pubertal dairy heifers allocated in continuous competitive situations 1297
- Bugueiro, A., Fouz, R., Camino, F., Yus, E. and Diéguez, F. J.
Robot milking and relationship with culling rate in dairy cows 1304

- Livestock Farming Systems**
- Lockwood, A., Hancock, S., Paganoni, B., Macleay, C., Kearney, G., Sohi, R. and Thompson, A.
Mob size of single-bearing or twin-bearing Merino ewes at lambing may not influence lamb survival when feed-on-offer is high 1311
- Ariza, J. M., Bareille, N., Oberle, K. and Guatteo, R.
Current recommendations for footbath solutions renewal rates in dairy cattle: the need for adaptation? 1319

- Quality of Animal Products**
- Rodrigues, L. A., Almeida, F. R. C. L., Peloso, J. V., Ferreira, F. N. A., Allison, J. and Fontes, D. O.
The effects of immunization against gonadotropin-releasing hormone on growth performance, reproductive activity and carcass traits of heavy weight gilts 1326
- Valenti, B., Criscione, A., Moltisanti, V., Bordonaro, S., De Angelis, A., Marletta, D., Di Paola, F. and Avondo, M.
Genetic polymorphisms at candidate genes affecting fat content and fatty acid composition in Modicana cows: effects on milk production traits in different feeding systems 1332

