

CAMBRIDGE

JOURNALS

Animal Health Research Reviews

Published in collaboration with the Conference of Research
Workers in Animal Diseases

Editor-in-Chief

C. Gyles, *University of Guelph, Canada*

Animal Health Research Reviews provides an international forum for the publication of reviews and commentaries on all aspects of animal health. Papers include in-depth analyses and broader overviews of all facets of health and science in both domestic and wild animals. Major subject areas include physiology and pharmacology, parasitology, bacteriology, food and environmental safety, epidemiology and virology. The journal will be of interest to researchers involved in animal health, parasitologists, food safety experts and academics interested in all aspects of animal production and welfare.

For free online content visit:
<http://journals.cambridge.org/ahrsample>

Free email alerts

Keep up-to-date with new content

<http://journals.cambridge.org/ahr-alerts>



Animal Health Research Reviews
is available online at:
<http://journals.cambridge.org/ahr>

To subscribe contact Customer Services

Americas:

Phone +1 (845) 353 7500

Fax +1 (845) 353 4141

Email

subscriptions_newyork@cambridge.org

Rest of world:

Phone +44 (0)1223 326070

Fax +44 (0)1223 325150

Email journals@cambridge.org

Price Information

is available at:

<http://journals.cambridge.org/ahr>



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

Knowledge is no longer shelved

The *Cambridge Journals Digital Archive* contains more than 160 journals, more than 3 million pages and more than 8 million linked references. Knowledge is now more visible and more searchable than ever.



journals.cambridge.org/archives

 CAMBRIDGE
UNIVERSITY PRESS

CONTENTS

Breeding and genetics

- Calus, M. P. L., de Haas, Y., Pszczola, M. and Veerkamp, R. F.*
 Predicted accuracy of and response to genomic selection for new traits in dairy cattle 183
- Melka, M. G., Sargolzaei, M., Miglior, F. and Schenkel, F.*
 Genetic diversity of Guernsey population using pedigree data and gene-dropping simulations 192
- Santana, M. L., Eler, J. P., Cardoso, F. F., Albuquerque, L. G. and Ferraz, J. B. S.*
 Phenotypic plasticity of composite beef cattle performance using reaction norms model with unknown covariate 202
- Fouz, R., Gandoy, F., Sanjuán, M. L., Yus, E. and Diéguez, F. J.*
 The use of crossbreeding with beef bulls in dairy herds: effects on calving difficulty and gestation length 211

Nutrition

- Sun, P., Wang, J. Q. and Deng, L. F.*
 Effects of *Bacillus subtilis* natto on milk production, rumen fermentation and ruminal microbiome of dairy cows 216
- Arroyo, J. M., González, J., Ouarti, M., Silván, J. M., Ruiz del Castillo, M. L. and de la Peña Moreno, F.*
 Malic acid or orthophosphoric acid-heat treatments for protecting sunflower (*Helianthus annuus*) meal proteins against ruminal degradation and increasing intestinal amino acid supply 223
- Kornfelt, L. F., Weisbjerg, M. R. and Nørgaard, P.*
 Effect of harvest time and physical form of alfalfa silage on chewing time and particle size distribution in boli, rumen content and faeces 232
- Boivin, M., Gervais, R. and Chouinard, P. Y.*
 Effect of grain and forage fractions of corn silage on milk production and composition in dairy cows 245

- Azarfar, A., Jonker, A. and Yu, P.*
 Assessing protein availability of different bioethanol coproducts in dairy cattle 255

- Ghoorch, T., Lund, P., Larsen, M., Hvelplund, T., Hansen-Møller, J. and Weisbjerg, M. R.*
 Assessment of the mobile bag method for estimation of *in vivo* starch digestibility 265

- Suarez-Mena, F. X., Zanton, G. I. and Heinrichs, A. J.*
 Effect of forage particle length on rumen fermentation, sorting and chewing activity of late-lactation and non-lactating dairy cows 272

Physiology and functional biology of systems

- Tůmová, L., Romar, R., Petr, J. and Sedmíková, M.*
 The effect of protein kinase C activator and nitric oxide donor on oocyte activation and cortical granule exocytosis in porcine eggs 279

- Chen, X. L., Gong, L. Z. and Xu, J. X.*
 Antioxidative activity and protective effect of probiotics against high-fat diet-induced sperm damage in rats 287

- Yang, Y. X., Wang, J. Q., Yuan, T. J., Bu, D. P., Yang, J. H., Sun, P. and Zhou, L. Y.*
 Effects of duodenal infusion of free α -linolenic acid on the plasma and milk proteome of lactating dairy cows 293

Behaviour, welfare and health

- Weiler, U., Götz, M., Schmidt, A., Otto, M. and Müller, S.*
 Influence of sex and immunocastration on feed intake behavior, skatole and indole concentrations in adipose tissue of pigs 300

- Bohnenkamp, A.-L., Traulsen, I., Meyer, C., Müller, K. and Krieter, J.*
 Comparison of growth performance and agonistic interaction in weaned piglets of different weight classes from farrowing systems with group or single housing 309

- Sanker, C., Lambert, C. and Gauly, M.*
 Climatic effects in Central Europe on the frequency of medical treatments of dairy cows 316

Farming systems and environment

- Gilles, S., Fargier, L., Lazzaro, X., Baras, E., De Wilde, N., Drakidès, C., Amiel, C., Rispal, B. and Blancheton, J.-P.*
 An integrated fish-plankton aquaculture system in brackish water 322

- Cederberg, C., Hedenus, F., Wirsenius, S. and Sonesson, U.*
 Trends in greenhouse gas emissions from consumption and production of animal food products – implications for long-term climate targets 330

Product quality, human health and well-being

- Maiorano, G., Kapelariški, W., Bocian, M., Pizzuto, R. and Kapelariška, J.*
 Influence of rearing system, diet and gender on performance, carcass traits and meat quality of Polish Landrace pigs 341

- Maurice-Van Eijndhoven, M. H. T., Soyeurt, H., Dehareng, F. and Calus, M. P. L.*
 Validation of fatty acid predictions in milk using mid-infrared spectrometry across cattle breeds 348

Retraction

- Zhao, X. E. and Zheng, Y. M.*
 Development of cloned embryos from porcine neural stem cells and amniotic fluid-derived stem cells – RETRACTION 355

