







FEBRUARY 2010 VOLUME 4 NUMBER 2

CONTENTS

EAAP Annual Meeting 2008, Session Genomic selection and bio-informatics <i>Calus, M. P. L.</i>	
Genomic breeding value prediction: methods and procedures (review)	157
Rosa, G. J. M. and Vazquez, A. I. Integrating biological information into the statistical analysis and design of microarray experiments (review)	165
Breeding and genetics Bohmanova, J., Miglior, F., Jamrozik, J., Van Doormaal, B. J., Hand, K. J. and Lazenby, D. Genetic analysis of return over feed in Canadian Holsteins	173
Koivula, M., Strandén, I. and Mäntysaari, E. A. Genetic and phenotypic parameters of age at first mating, litter size and animal size in Finnish mink	189
Banos, G. and Coffey, M. P. Genetic association between body energy measured throughout lactation and fertility in dairy cattle	189
Nutrition Schlegel, P., Nys, Y. and Jondreville, C. Zinc availability and digestive zinc solubility in piglets and broilers fed diets varying in their phytate contents, phytase activity and supplemented zinc source	200
Sun, Y. Z., Mao, S. Y. and Zhu, W. Y. Rumen chemical and bacterial changes during stepwise adaptation to a high-concentrate diet in goats	210
Physiology and functional biology of systems Hwang, S., Lee, NJ., Hwang, JS., Yang, BC., Im, GS., Ko, YG., Park, EW., Park, SB., Kang, JK. and Seong, HH.	
Effects of cloned-cattle meat on reproductive physiology in rats	218
Cánovas, A., Quintanilla, R., Gallardo, D., Díaz, I., Noguera, J. L., Ramírez, O. and Pena, R. N. Functional and association studies on the pig HMGCR gene, a cholesterol-synthesis limiting enzyme	224
Conroy, S. B., Drennan, M. J., McGee, M., Keane, M. G., Kenny, D. A. and Berry, D. P. Predicting beef carcass meat, fat and bone proportions from carcass conformation and fat scores or hindquarter dissection	234
Behaviour, welfare and health Munsterhjelm, C., Valros, A., Heinonen, M., Hälli, O., Siljander-Rasi, H. and Peltoniemi, O. A. T. Environmental enrichment in early life affects cortisol patterns in growing pigs	242
De la Fuente, J., Sánchez, M., Pérez, C., Lauzurica, S., Vieira, C., González de Chávarri, E. and Díaz, M. T. Physiological response and carcass and meat quality of suckling lambs in relation to transport time and stocking density during transport by road	250
Marley, C. L., Weller, R. F., Neale, M., Main, D. C. J., Roderick, S. and Keatinge, R. Aligning health and welfare principles and practice in organic dairy systems: a review (review)	259
Farming systems and environment O'Driscoll, K., Boyle, L., Hanlon, A., Buckley, F. and French, P. The effect of dry cow winter management system on feed intake, performance and estimated	
energy demand	272
Ho, K. W., Krebs, G. L., McCafferty, P., van Wyngaarden, S. P. and Addison, J. Using faecal DNA to determine consumption by kangaroos of plants considered palatable to sheep	282
Product quality, human health and well-being <i>Rodríguez-Sánchez, J. A., Ripoll, G. and Latorre, M. A.</i> The influence of age at the beginning of Montanera period on meat characteristics and fat quality of outdoor Iberian pigs	289
Combes, S., Postollec, G., Cauquil, L. and Gidenne, T. Influence of cage or pen housing on carcass traits and meat quality of rabbit	295
Hocquette, J. F., Gondret, F., Baéza, E., Médale, F., Jurie, C. and Pethick, D. W. Intramuscular fat content in meat-producing animals: development, genetic and nutritional control, and identification of putative markers (<i>review</i>)	303

Cambridge Journals Online For futher information about this journal please go to the journal web site at: journals.cambridge.org/anm





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



JOURNALS

Animal

Health



Animal Health Research Reviews is available online at

http://journals.cambridge.org/ahr

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York: Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

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. The journal covers all facets of animal health and science, including but not limited to both infectious and non-infectious diseases in domestic and wild animals.

Price information is available at http://journals.cambridge.org/ahr

Free email alerts Keep up-to-date with new material – sign up at http://journals.cambridge.org/alerts

For free online content visit http://journals.cambridge.org/ahr

JOURNALS



Parasitology is available online at http://journals.cambridge.org/par

To subscribe contact Customer Services

in Cambridge: Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York: Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

Parasitology

Editors

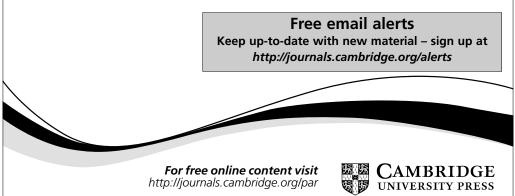
R. S. Phillips, University of Glasgow, UK

- R. B. Gasser, University of Melbourne, Australia
- L. H. Chappell, University of Aberdeen, UK

Parasitology publishes original papers on all aspects of parasitology and host-parasite relationships, ranging from the latest discoveries in biochemical and molecular biology to ecology and epidemiology in the context of the medical, veterinary and biological sciences.

Two specially commissioned issues with important topics in parasitology, including the proceedings of the symposia of the British Society for Parasitology, are included in the annual subscription.

Price information is available at http://journals.cambridge.org/par



JOURNALS



British Journal of Nutrition

Published on behalf of The Nutrition Society

British Journal of Nutrition is available online at: http://journals.cambridge.org/bjn

To subscribe contact Customer Services

in Cambridge: Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York: Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org *Editor-in-chief* P.C. Calder, University of Southampton, UK

British Journal of Nutrition is a leading international peerreviewed journal covering research on human and clinical nutrition, animal nutrition and basic science as applied to nutrition. The journal recognises the multidisciplinary nature of nutritional science and includes material from all of the specialities involved in nutrition research, including molecular and cell biology and the emerging area of nutritional genomics.

Price information is available at: http://journals.cambridge.org/bjn



For free online content visit: http://journals.cambridge.org/bjn UNIVERSITY PRESS