

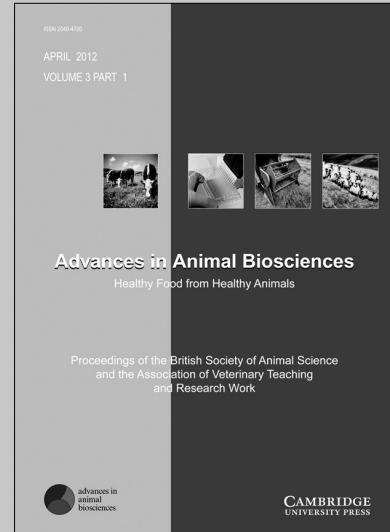
Advances in Animal Biosciences

Published for The Animal Consortium
www.animal-journal.eu

Advances in Animal Biosciences is an associated publication to the journal *animal*. It aims to publish high quality conference, symposium and workshop proceedings on animal-related aspects of the life sciences with emphasis on farmed and other managed animals. These can be in the form of a book of abstracts, summaries or complete papers. The format will highlight the title of the meeting and organisations involved but the publications will have the added advantage of forming a series under '*Advances in Animal Biosciences*'.

Free email alerts

Keep up-to-date with new material – sign up at
<http://journals.cambridge.org/abs-alerts>



Advances in Animal Biosciences
is available online at:
<http://journals.cambridge.org/abs>

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

BJN

BRITISH JOURNAL OF NUTRITION

Editor-in-Chief

G C Burdge, *University of Southampton, UK*

British Journal of Nutrition is a leading international peer-reviewed journal covering research on human and clinical nutrition, animal nutrition and basic science as applied to nutrition. The journal recognises the multi-disciplinary 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.

journals.cambridge.org/bjn

Submit your article online
bjn.msubmit.net

Register for free content alerts
journals.cambridge.org/bjn-alerts



Impact Factor
3.302

Ranked **18/76**
Nutrition and Dietics
2012 Journal Citation Reports®
Thomson Reuters

To subscribe contact
Customer Services

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

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



Cambridge Journals Digital Archive

- ▶ 1770 – 2011
- ▶ Over 220 titles
- ▶ From Volume 1



journals.cambridge.org/archives

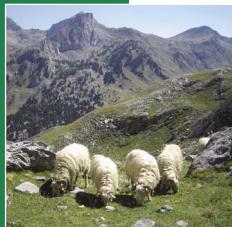


CAMBRIDGE
UNIVERSITY PRESS

CONTENTS

Breeding and genetics

- Lundgren, H., Fikse, W. F., Grandinson, K., Lundeheim, N., Canario, L., Vangen, O., Olsen, D. and Rydhmer, L. Genetic parameters for feed intake, litter weight, body condition and rebreeding success in primiparous Norwegian Landrace sows 175
- Sabbagh, M., Danvy, S. and Ricard, A. Genetic and environmental analysis of dystocia and stillbirths in draft horses 184
- Solé, M., Santos, R., Molina, A., Galisteo, A. and Valera, M. Genetic analysis of kinematic traits at the trot in Lusitano horse subpopulations with different types of training 192
- Salamon, D., Gutierrez-Gil, B., Arranz, J. J., Barreta, J., Batinic, V. and Dzidic, A. Genetic diversity and differentiation of 12 eastern Adriatic and western Dinaric native sheep breeds using microsatellites 200
- Weller, J. I., Glick, G., Shirak, A., Ezra, E., Seroussi, E., Shemesh, M., Zeron, Y. and Ron, M. Predictive ability of selected subsets of single nucleotide polymorphisms (SNPs) in a moderately sized dairy cattle population 208
- Hagiya, K., Yamazaki, T., Nagamine, Y., Togashi, K., Yamaguchi, S., Gotoh, Y., Kawahara, T., Masuda, Y. and Suzuki, M. Genetic correlations between production and disease traits during first lactation in Holstein cows 217
- Purfield, D. C., Bradley, D. G., Kearney, J. F. and Berry, D. P. Genome-wide association study for calving traits in Holstein-Friesian dairy cattle 224



Nutrition

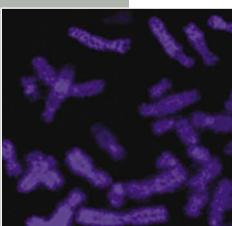
- Amdi, C., Giblin, L., Ryan, T., Stickland, N. C. and Lawlor, P. G. Maternal backfat depth in gestating sows has a greater influence on offspring growth and carcass lean yield than maternal feed allocation during gestation 236
- De Marco, M., Peiretti, P. G., Miraglia, N. and Bergero, D. Apparent digestibility of broken rice in horses using *in vivo* and *in vitro* methods 245
- Jeyanathan, J., Martin, C. and Morgavi, D. P. The use of direct-fed microbials for mitigation of ruminant methane emissions (review) 250
- Sinclair, K. D., Garnsworthy, P. C., Mann, G. E. and Sinclair, L. A. Reducing dietary protein in dairy cow diets: implications for nitrogen utilization, milk production, welfare and fertility (review) 262



- Cantalapiedra-Hijar, G., Peyraud, J. L., Lemosquet, S., Molina-Alcaide, E., Boudra, H., Nozière, P. and Ortigues-Marty, I. Dietary carbohydrate composition modifies the milk N efficiency in late lactation cows fed low crude protein diets 275
- Nordqvist, M., Holtenius, K. and Spörndly, R. Methods for assessing phosphorus overfeeding on organic and conventional dairy farms 286

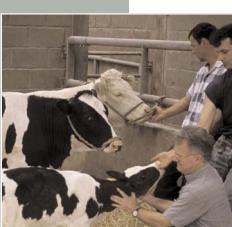
Physiology and functional biology of systems

- Almeida, F. R. C. L., Machado, G. S., Borges, A. L. C. C., Rosa, B. O. and Fontes, D. O. Consequences of different dietary energy sources during follicular development on subsequent fertility of cyclic gilts 293
- Smolinska, N., Nitkiewicz, A., Maleszka, A., Kiezun, M., Dobrzyn, K., Czerwinska, J., Chojnowska, K. and Kaminski, T. The effect of the estrous cycle on the expression of prepro-orexin gene and protein and the levels of orexin A and B in the porcine pituitary 300
- Ortiz, I., Dorado, J., Ramirez, L., Morrell, J. M., Acha, D., Urbano, M., Gálvez, M. J., Carrasco, J. J., Gómez-Arribes, V., Calero-Carretero, R. and Hidalgo, M. Effect of single layer centrifugation using Androcoll-E-Large on the sperm quality parameters of cooled-stored donkey semen doses 308



Behaviour, welfare and health

- Kovács, L., Jurkovich, V., Bakony, M., Szenci, O., Póti, P. and Tőzsér, J. Welfare implication of measuring heart rate and heart rate variability in dairy cattle: literature review and conclusions for future research (review) 316
- Cheng, Z., O'Connor, E. A., Jia, Q., Demmers, T. G. M., Wathes, C. M. and Wathes, D. C. Chronic ammonia exposure does not influence hepatic gene expression in growing pigs 331
- Stavrakakis, S., Guy, J. H., Warlow, O. M. E., Johnson, G. R. and Edwards, S. A. Longitudinal gait development and variability of growing pigs reared on three different floor types 338



Cambridge Journals Online

For further information about this journal
please go to the journal web site at:
journals.cambridge.org/anm



MIX
Paper from
responsible
sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS