

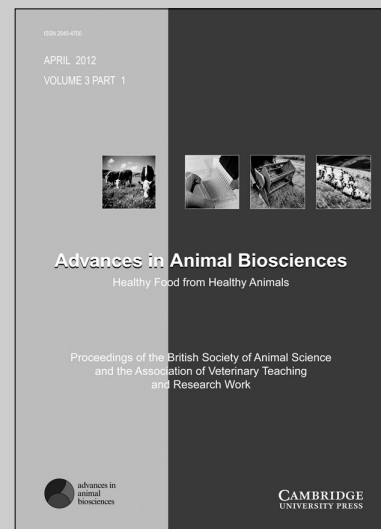
Advances in Animal Biosciences

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



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

CAMBRIDGE JOURNALS DIGITAL ARCHIVE

- ▶ Archives are available for over 250 of our journals
- ▶ Featuring content published from 1770 to 2011
- ▶ Available as full, HSS and STM packages, smaller collections, annual top ups and as individual titles

Ask your librarian to visit
journals.cambridge.org/archives to find out more



CAMBRIDGE
UNIVERSITY PRESS

CONTENTS

Breeding and genetics

Lupi, T. M., León, J. M., Nogales, S., Barba, C. and Delgado, J. V.
Genetic parameters of traits associated with the growth curve in Segureña sheep 729

Connolly, S. M., Cromie, A. R. and Berry, D. P.
Genetic differences based on a beef terminal index are reflected in future phenotypic performance differences in commercial beef cattle 736

Mastrangelo, S., Tolone, M., Di Gerlando, R., Fontanesi, L., Sardina, M. T. and Portolano, B.
Genomic inbreeding estimation in small populations: evaluation of runs of homozygosity in three local dairy cattle breeds 746

Nutrition

Sauvant, D. and Nozière, P.
Quantification of the main digestive processes in ruminants: the equations involved in the renewed energy and protein feed evaluation systems 755

Hassoun, P., Bastianelli, D., Foulquié, D., Bonnal, L. and Bocquier, F.
Polyethylene glycol marker measured with NIRS gives a reliable estimate of the rangeland intake of grazing sheep 771

Cheng, L., Edwards, G. R., Dewhurst, R. J., Nicol, A. M. and Pacheco, D.
The effect of dietary water soluble carbohydrate to nitrogen ratio on nitrogen partitioning and isotopic fractionation of lactating goats offered a high-nitrogen diet 779

Duthie, C.-A., Rooke, J. A., Troy, S., Hyslop, J. J., Ross, D. W., Waterhouse, A. and Roehe, R.
Impact of adding nitrate or increasing the lipid content of two contrasting diets on blood methaemoglobin and performance of two breeds of finishing beef steers 786

Lawrence, D., O'Donovan, M., Boland, T. M., Lewis, E. and Kennedy, E.
An examination of two concentrate allocation strategies which are based on the early lactation milk yield of autumn calving Holstein Friesian cows 796

Physiology and functional biology of systems

Yalcin, S., Gursel, I., Bilgen, G., Izzetoglu, G. T., Horuluoglu, B. H. and Gucluer, G.
Egg storage duration and hatch window affect gene expression of nutrient transporters and intestine morphological parameters of early hatched broiler chicks 805

Ramsay, T. G., Blomberg, L. and Caperna, T. J.
 α 1-acid glycoprotein inhibits lipogenesis in neonatal swine adipose tissue 812

Dubost, A., Micol, D., Lethias, C. and Listrat, A.
New insight of some extracellular matrix molecules in beef muscles. Relationships with sensory qualities 821

Prezotto, L. D., Camacho, L. E., Lemley, C. O., Keomanivong, F. E., Caton, J. S., Vonnahme, K. A. and Swanson, K. C.
Nutrient restriction and realimentation in beef cows during early and mid-gestation and maternal and fetal hepatic and small intestinal *in vitro* oxygen consumption 829

Lima, J. A. M., Ruas, J. R. M., Vasconcelos, A. C., Silper, B. F., Lana, A. M. Q., Gheller, V. A., Saturnino, H. M., Reis, R. B. and Coelho, S. G.
Effects of bovine mammary gland biopsy and increased milking frequency on post-procedure udder health, histology, and milk yield 838

Behaviour, welfare and health

Hartcher, K. M., Hickey, K. A., Hemsworth, P. H., Cronin, G. M., Wilkinson, S. J. and Singh, M.
Relationships between range access as monitored by radio frequency identification technology, fearfulness, and plumage damage in free-range laying hens 847

Hartcher, K. M., Hemsworth, P. H., Wilkinson, S. J., Thomson, P. C. and Cronin, G. M.
The association between plumage damage and feather-eating in free-range laying hens 854

Améndola, L., Solorio, F. J., Ku-Vera, J. C., Améndola-Massiotti, R. D., Zarza, H. and Galindo, F.
Social behaviour of cattle in tropical silvopastoral and monoculture systems 863

Farming systems and environment

Cummins, C., Berry, D. P., Sayers, R., Lorenz, I. and Kennedy, E.
Questionnaire identifying management practices surrounding calving on spring-calving dairy farms and their associations with herd size and herd expansion 868

Henchion, M., McCarthy, M., Resconi, V. C., Berry, D. P. and McParland, S.
Stakeholder involvement in establishing a milk quality sub-index in dairy cow breeding goals: a Delphi approach 878

Magne, M. A., Thénard, V. and Mihout, S.
Initial insights on the performances and management of dairy cattle herds combining two breeds with contrasting features 892

