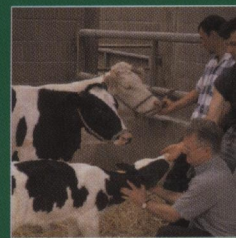
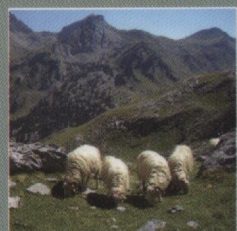


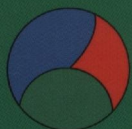
ISSN 1751-7311



# animal

AN INTERNATIONAL JOURNAL OF ANIMAL BIOSCIENCE

CAMBRIDGE  
UNIVERSITY PRESS



animal

## CONTENTS

### Breeding and genetics

- Urioste, J. I., Chang, Y. M., Naya, H. and Gianola, D.*  
Genetic variability in calving success in Aberdeen Angus cows under extensive recording 1081

- Van den Maagdenberg, K., Stinckens, A., Claeys, E., Seynaeve, M., Clinquart, A., Georges, M., Buys, N. and De Smet, S.*  
The Asp298Asn missense mutation in the porcine melanocortin-4 receptor (MC4R) gene can be used to affect growth and carcass traits without an effect on meat quality 1089

- Kumar, A., Rout, P. K., Mandal, A. and Roy, R.*  
Identification of the CSN1S1 allele in Indian goats by the PCR-RFLP method 1099

- Luther, H., Schwörer, D. and Hofer, A.*  
Heritabilities of osteochondral lesions and genetic correlations with production and exterior traits in station-tested pigs 1105

### Nutrition

- Lynch, M. B., Sweeney, T., Callan, J. J., Flynn, B. and O'Doherty, J. V.*  
The effect of high and low dietary crude protein and inulin supplementation on nutrient digestibility, nitrogen excretion, intestinal microflora and manure ammonia emissions from finisher pigs 1112

- Emile, J. C., Jobim, C. C., Surault, F. and Barrière, Y.*  
Genetic variations in the digestibility in sheep of selected whole-crop cereals used as silages 1122

- Bindelle, J., Buldgen, A., Wavreille, J., Agneessens, R., Destain, J. P., Wathelet, B. and Leterme, P.*  
The source of fermentable carbohydrates influences the *in vitro* protein synthesis by colonic bacteria isolated from pigs 1126

- Hamard, A., Sève, B. and Le Floch, N.*  
Intestinal development and growth performance of early-weaned piglets fed a low threonine diet 1134

### Physiology and functional biology of systems

- Martin, O. and Sauvart, D.*  
Dynamic model of the lactating dairy cow metabolism 1143

### Behaviour, welfare and health

- Lefebvre, D., Lips, D., Ödberg, F. O. and Giffroy, J. M.*  
Tail docking in horses: a review of the issues 1167

- Botreau, R., Bonde, M., Butterworth, A., Perny, P., Bracke, M. B. M., Capdeville, J. and Veissier, I.*  
Aggregation of measures to produce an overall assessment of animal welfare. Part 1: a review of existing methods 1179

- Botreau, R., Bracke, M. B. M., Perny, P., Butterworth, A., Capdeville, J., Van Reenen, C. G. and Veissier, I.*  
Aggregation of measures to produce an overall assessment of animal welfare. Part 2: analysis of constraints 1188

### Farming systems and environment

- Dian, P. H. M., Andueza, D., Barbosa, C. M. P., Amoureux, S., Jestin, M., Carvalho, P. C. F., Prado, I. N. and Prache, S.*  
Methodological developments in the use of visible reflectance spectroscopy for discriminating pasture-fed from concentrate-fed lamb carcasses 1198

- Fiorelli, C., Dedieu, B. and Pailleux, J.-Y.*  
Explaining diversity of livestock farming management strategies of multiple-job-holders: importance of level of production objectives and role of farming in the household 1209

- Magowan, E., McCann, M. E. E., Beattie, V. E., McCracken, K. J., Henry, W., Smyth, S., Bradford, R., Gordon, F. J. and Mayne, C. S.*  
Investigation of growth rate variation between commercial pig herds 1219

### Product quality, health and well-being

- Moreno, T., Varela, A., Portela, C., Pérez, N., Carballo, J. A. and Montserrat, L.*  
The effect of grazing on the fatty acid profile of *longissimus thoracis* muscle in Galician Blond calves 1227

### Cambridge Journals Online

For further information about this journal please go to the journal web site at:  
[http://www.journals.cambridge.org/jid\\_anm](http://www.journals.cambridge.org/jid_anm)

