

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

Nutrition

Amanoel, D. E., Thomas, D. T., Blache, D., Milton, J. T. B., Wilmot, M. G., Revell, D. K. and Norman, H. C.
 Sheep deficient in vitamin E preferentially select for a feed with a higher concentration of vitamin E 183

Landau, S. Y., Dvash, L., Roudman, M., Muklada, H., Barkai, D., Yehuda, Y. and Ungar, E. D.
 Faecal near-IR spectroscopy to determine the nutritional value of diets consumed by beef cattle in east Mediterranean rangelands 192

Rico, D. E., Chouinard, P. Y., Hassanat, F., Benchaar, C. and Gervais, R.
 Prediction of enteric methane emissions from Holstein dairy cows fed various forage sources 203

Edouard, N., Hassouna, M., Robin, P. and Faverdin, P.
 Low degradable protein supply to increase nitrogen efficiency in lactating dairy cows and reduce environmental impacts at barn level 212

Cantalapiedra-Hijar, G., Fouillet, H., Huneau, J. F., Fanchone, A., Doreau, M., Nozière, P. and Ortigues-Marty, I.
 Relationship between efficiency of nitrogen utilization and isotopic nitrogen fractionation in dairy cows: contribution of digestion v. metabolism? 221

Physiology and functional biology of systems

Le Cozler, Y., Guatteo, R., Le Dréan, E., Turban, H., Leboeuf, F., Pecceu, K. and Guinard-Flament, J.
 IgG1 variations in the colostrum of Holstein dairy cows 230

Otero, J. A., Miguel, V., González-Lobato, L., García-Villalba, R., Espín, J. C., Prieto, J. G., Merino, G. and Álvarez, A. I.
 Effect of bovine ABCG2 polymorphism Y581S SNP on secretion into milk of enterolactone, riboflavin and uric acid 238

Ghavi Hossein-Zadeh, N.
 Comparison of non-linear models to describe the lactation curves for milk yield and composition in buffaloes (*Bubalus bubalis*) 248

Farming systems and environment

Leroy, G., Baumung, R., Boettcher, P., Scherf, B. and Hoffmann, I.
 Review: Sustainability of crossbreeding in developing countries; definitely not like crossing a meadow... 262

van der Voort, M., Van Meensel, J., Lauwers, L., Van Huylenbroeck, G. and Charlier, J.
 The relation between input-output transformation and gastrointestinal nematode infections on dairy farms 274

Sraïri, M. T., Benjelloun, R., Karrou, M., Ates, S. and Kuper, M.
 Biophysical and economic water productivity of dual-purpose cattle farming 283

Special Topic: Welfare assessment at farm and group level

Veissier, I., Spoolder, H., Rushen, J. and Mounier, L.
 Editorial: Pigs crying, silent fish and other stories about animal welfare assessment 292

Gräns, A., Niklasson, L., Sandblom, E., Sundell, K., Algers, B., Berg, C., Lundh, T., Axelsson, M., Sundh, H. and Kiessling, A.
 Stunning fish with CO₂ or electricity: contradictory results on behavioural and physiological stress responses 294

Butterworth, A., de Jong, I. C., Keppler, C., Knierim, U., Stadig, L. and Lambton, S.
 What is being measured, and by whom? Facilitation of communication on technical measures amongst competent authorities in the implementation of the European Union Broiler Directive (2007/43/EC) 302

Weary, D. M., Ventura, B. A. and von Keyserlingk, M. A. G.
 Societal views and animal welfare science: understanding why the modified cage may fail and other stories 309

Telkänranta, H., Marchant-Forde, J. N. and Valros, A.
 Tear staining in pigs: a potential tool for welfare assessment on commercial farms 318

Parotat, S., von Holleben, K., Arnold, S., Troeger, K. and Luecker, E.
 Hot-water spraying is a sensitive test for signs of life before dressing and scalding in pig abattoirs with carbon dioxide (CO₂) stunning 326

Muri, K., Leine, N. and Valle, P. S.
 Welfare effects of a disease eradication programme for dairy goats 333

Brenninkmeyer, C., Dippel, S., Brinkmann, J., March, S., Winckler, C. and Knierim, U.
 Investigating integument alterations in cubicle housed dairy cows: which types and locations can be combined? 342

Heath, C. A. E., Main, D. C. J., Mullan, S., Haskell, M. J. and Browne, W. J.
 Sequential sampling: a novel method in farm animal welfare assessment 349

Gallo, C. B. and Huertas, S. M.
 Main animal welfare problems in ruminant livestock during preslaughter operations: a South American view 357

