

ANIMAL PRODUCTION SCIENCE

CONTENTS Volume 51, Issue 1, 2011, 1–86

RESEARCH FRONT: ANIMAL PRODUCTION IN A CHANGING WORLD

Foreword i

Future research priorities for animal production in a changing world

*N. D. Scollan, P. L. Greenwood, C. J. Newbold, D. R. Yáñez Ruiz,
K. J. Shingfield, R. J. Wallace and J. F. Hocquette* 1–5

Improving the efficiency of energy utilisation in cattle

C. K. Reynolds, L. A. Crompton and J. A. N. Mills 6–12

Current and future issues facing red meat quality in a competitive market and how to manage continuous improvement

D. W. Pethick, A. J. Ball, R. G. Banks and J. F. Hocquette 13–18

Enhancing fatty acid composition of milk and meat through animal feeding

M. Doreau, D. Bauchart and Y. Chilliard 19–29

Perception in France of the Australian system for the prediction of beef quality (Meat Standards Australia) with perspectives for the European beef sector

J. F. Hocquette, I. Legrand, C. Jurie, D. W. Pethick and D. Micol 30–36

RESEARCH PAPERS

Effect of Australian sweet lupin (*Lupinus angustifolius* L.) inclusion levels and enzyme supplementation on the performance, carcass composition and meat quality of grower/finisher pigs

J. C. Kim, B. P. Mullan, R. R. Nicholls and J. R. Pluske 37–43

Improving the accuracy of digestibility estimates for cattle grazing tropical pastures when sampling with oesophageal fistulated cattle

D. B. Coates 44–52

Physicochemical, microbiological and sensory properties of Sudanese yoghurt (zabadi) made from goat's milk

Eshraga A. Eissa, Elfadil E. Babiker and Abu ElGasim A. Yagoub 53–59

Development of a software model to estimate daily greenhouse gas emissions of pasture-fed ruminant farming systems

J. A. Sise, J. I. Kerslake, M. J. Oliver, S. Glennie, D. Butler, M. Behrent, P. F. Fennessy and A. W. Campbell 60–70

Comparison of two instruments (G2 Tenderometer and a Lloyd Texture analyser) for measuring the shear force of cooked meat

D. L. Hopkins, E. S. Toohey, M. J. Kerr and R. van de Ven 71–76

Effect of nitrogen application on dry matter yields, nutritive characteristics and mineral content of summer-active forage crops in southern Australia

J. L. Jacobs and G. N. Ward 77–86