

ANIMAL PRODUCTION SCIENCE

CONTENTS Volume 53, Issues 11, 2013, 1135–1245

RECENT ADVANCES IN ANIMAL NUTRITION – AUSTRALIA

Foreword iii

Human evolution and diet: a modern conundrum of health versus meat consumption, or is it?

N. Mann 1135–1142

Effects of retailer pressure on the efficiency of agricultural industries

Ian J. Lean 1143–1148

Nutritional management of group-housed gestating sows – key challenges in the transition from stall-housing systems

R. J. van Barneveld 1149–1155

Enhancing the productivity of dairy cows using amino acids

Y. G. Liu, H. H. Peng and C. G. Schwab 1156–1159

Influence of processing on the digestibility of amino acids and starch in cereals and legumes in non-ruminants

Julian Wiseman 1160–1166

Use of partial mixed rations in pasture-based dairying in temperate regions of Australia

W. J. Wales, L. C. Marett, J. S. Greenwood, M. M. Wright, J. B. Thornhill,

J. L. Jacobs, C. K. M. Ho and M. J. Auldist 1167–1178

Taking near infrared spectroscopy beyond feedstuff analysis to enhance animal production profitability

Hadden Graham, Chris Piotrowski and Robert Van Barneveld 1179–1181

Metabolic responses of horses and ponies to high and low glycaemic feeds: implications for laminitis

S. R. Bailey and N. J. Bamford 1182–1187

Duckweed (*Landoltia punctata*) in dog diets decreases digestibility but improves stool consistency

W. Y. Brown, M. Choct and J. R. Pluske 1188–1194

Effect of added dietary nitrate and elemental sulfur on wool growth and methane emission of Merino lambs

L. Li, C. I. Silveira, J. V. Nolan, I. R. Godwin, R. A. Leng and R. S. Hegarty 1195–1201

Range use and pasture consumption in free-range poultry production

M. Singh and A. J. Cowieson 1202–1208

The trials and tribulations of estimating the pasture intake of grazing animals

David J. Cottle 1209–1220

Australian perennial shrub species add value to the feed base of grazing livestock in low- to medium-rainfall zones

D. K. Revell, H. C. Norman, P. E. Vercoe, N. Phillips, A. Toovey, S. Bickell,

E. Hulm, S. Hughes and J. Emms 1221–1230

Implications and development of a net energy system for broilers

Robert A. Swick, Shu-Biao Wu, Jianjun Zuo, Nicholas Rodgers,

M. Reza Barekatain and Mingan Choct 1231–1237

The potential for pharmacological supply of 25-hydroxyvitamin D to increase phosphorus utilisation in cattle

J. J. McGrath, D. B. Savage and I. R. Godwin 1238–1245