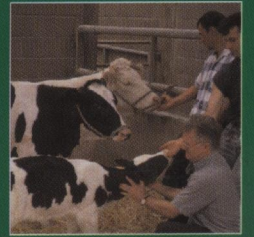
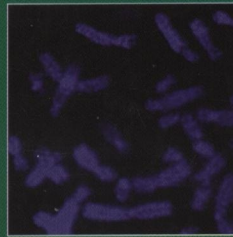


ISSN 1751-7311



animal

AN INTERNATIONAL JOURNAL OF ANIMAL BIOSCIENCE

CAMBRIDGE
UNIVERSITY PRESS



animal

CONTENTS

Breeding and genetics

M. Chimonyo and K. Dzama

Estimation of genetic parameters for growth performance and carcass traits in Mukota pigs 317

C. M. R. de Melo, I. U. Packer, C. N. Costa and P. F. Machado

Genetic parameters for test day milk yields of first lactation Holstein cows by random regression models 325

Nutrition

N. I. Nielsen, N. C. Friggens, T. Larsen, J. B. Andersen, M. O. Nielsen and K. L. Ingvarlsen

Effect of changes in diet energy density on feed intake, milk yield and metabolic parameters in dairy cows in early lactation 335

S. Håldar, S. Samanta, R. Banarjee, B. Sharma and T. K. Ghosh

Glucose tolerance and serum concentrations of hormones and metabolites in goats (*Capra hircus*) fed diets supplemented with inorganic and organic chromium salts 347

R. Barea, R. Nieto and J. F. Aguilera

Effects of the dietary protein content and the feeding level on protein and energy metabolism in Iberian pigs growing from 50 to 100 kg body weight 357

S. Fleige, W. Preißinger, H. H. D. Meyer and M. W. Pfaffl

Effect of lactulose on growth performance and intestinal morphology of pre-ruminant calves using a milk replacer containing *Enterococcus faecium* 367

C. K. Reynolds, D. E. Beever, W. Steinberg and A. J. Packington

Net nutrient absorption and liver metabolism in lactating dairy cows fed supplemental dietary biotin 375

W. Wattanakul, J. A. Rooke, A. H. Stewart, P. R. English and S. A. Edwards

Effect of milk deprivation during the lactation period on performance and digestive enzyme activities of the piglets following weaning 381

K. Partanen, T. Jalava and J. Valaja

Effects of a dietary organic acid mixture and of dietary fibre levels on ileal and faecal nutrient apparent digestibility, bacterial nitrogen flow, microbial metabolite concentrations and rate of passage in the digestive tract of pigs 389

Physiology and functional biology of systems

K. Coste, D. Gallo, G. Marceau, J. Jani, J. Deprest, A. Labbé, D. Lémery and V. Sapin

Expression of retinoid receptors during rabbit lung development 403

E. Pereira, H. N. Oliveira, J. P. Eler, J. A. Il de V. Silva and M. H. Van Melis

Comparison among three approaches for evaluation of sexual precocity in Nellore cattle 411

P. Chemineau, B. Malpoux, J. P. Brillard and A. Fostier

Seasonality of reproduction and production in farm fishes, birds and mammals 419

Behaviour, welfare and health

S. Colson, C. Arnould and V. Michel

Motivation to dust-bathe of laying hens housed in cages and in aviaries 433

T. Kristensen, F. Oudshoorn, L. Munksgaard and K. Søgaard

Effect of time at pasture combined with restricted indoor feeding on production and behaviour in dairy cows 439

Farming systems and environment

K. Osoro, U. García, B. M. Jáuregui, L. M. M. Ferreira, A. J. Rook and R. Celaya

Diet selection and live-weight changes of two breeds of goats grazing on heathlands 449

A. B. Rodríguez, R. Bodas, B. Fernández, O. López-Campos, A. R. Mantecón and F. J. Giráldez

Feed intake and performance of growing lambs raised on concentrate-based diets under cafeteria feeding systems 459

Product quality, health and well-being

A. Roy, J.-M. Chardigny, D. Bauchart, A. Ferlay, S. Lorenz, D. Durand, D. Gruffat, Y. Faulconnier,

J.-L. Sébédio and Y. Chilliard

Butters rich either in *trans*-10-C18:1 or in *trans*-11-C18:1 plus *cis*-9, *trans*-11 CLA differentially affect plasma lipids and aortic fatty streak in experimental atherosclerosis in rabbits 467

M. N. C. Harder, S. G. Canniatti-Brazaca, A. A. D. Coelho, V. J. M. Savino and C. F. O. Franco

Cholesterol and iron availability in yolk of laying hens feed with annatto (*Bixa orellana*) 477

Cambridge Journals Online

For further information about this journal please go to the journal website at:

http://www.journals.cambridge.org/jid_anm

CAMBRIDGE
UNIVERSITY PRESS

