







APRIL 2009 VOLUME 3 NUMBER 4

CONTENTS

Breeding and genetics	
Haraldsen, M., Ødegård, J., Olsen, D., Vangen, O., Ranberg, I. M. A. and Meuwissen, T. H. E. Prediction of genetic growth curves in pigs	475
Sun, C. Y., Wang, C. K., Wang, Y. C., Zhang, Y. and Zhang, Q. Evaluation of connectedness between herds for three pig breeds in China	482
Haile, A., Joshi, B. K., Ayalew, W., Tegegne, A. and Singh, A. Genetic evaluation of Ethiopian Boran cattle and their crosses with Holstein Friesian in central Ethiopia: milk production traits	486
<i>Dube, B., Dzama, K., Banga, C. B. and Norris, D.</i> An analysis of the genetic relationship between udder health and udder conformation traits in South African Jersey cows	494
Nutrition Gidenne, T. and Feugier, A. Feed restriction strategy in the growing rabbit. 1. Impact on digestion, rate of passage and microbial activity	501
Gidenne, T., Combes, S., Feugier, A., Jehl, N., Arveux, P., Boisot, P., Briens, C., Corrent, E., Fortune, H., Montessuy, S. and Verdelhan, S. Feed restriction strategy in the growing rabbit. 2. Impact on digestive health, growth and carcass characteristics	509
Kasapidou, E., Enser, M., Wood, J. D., Richardson, R. I., Wilkinson, R. G. and Sinclair, L. A. Influence of vitamin E supplementation and basal diet on the vitamin E status, performance and tissue fatty acid concentration in lambs	509
<i>Carro, M. D., Ranilla, M. J., Martín-García, A. I. and Molina-Alcaide, E.</i> Comparison of microbial fermentation of high- and low-forage diets in Rusitec, single-flow continuous-culture fermenters and sheep rumen	527
Physiology and functional biology of systems Duran-Montgé, P, Theil, P. K., Lauridsen, C. and Esteve-Garcia, E. Dietary fat source affects metabolism of fatty acids in pigs as evaluated by altered expression of lipogenic genes in liver and adipose tissues	535
Alabiso, M., Giosuè, C., Alicata, M. L., Mazza, F. and lannolino, G. The effects of different milking intervals and milking times per day in jennet milk production	543
Bowen, M. K., Poppi, D. P. and McLennan, S. R. Recovery of intravenously infused chromium EDTA and lithium sulphate in the urine of cattle and their use as markers to measure urine volume	548
Labussiere, E., Maxin, G., Dubois, S., van Milgen, J., Bertrand, G. and Noblet, J. Effect of feed intake on heat production and protein and fat deposition in milk-fed veal calves	557
Madeja, Z. E., Warzych, E., Peippo, J., Lechniak, D. and Switonski, M. Gene expression and protein distribution of leptin and its receptor in bovine oocytes and preattachment embryos produced <i>in vitro</i>	568
Corson, A. M., Laws, J., Litten, J. C., Lean, I. J. and Clarke, L. Intergenerational effects of birth weight on glucose tolerance and reproductive performance	579
Behaviour, welfare and health Andersen, I. L., Haukvik, I. A. and Bøe, K. E. Drying and warming immediately after birth may reduce piglet mortality in loose-housed sows	592
Farming systems and environment <i>Prache, S., Kondjoyan, N., Delfosse, O., Chauveau-Duriot, B., Andueza, D. and Cornu, A.</i> Discrimination of pasture-fed lambs from lambs fed dehydrated alfalfa indoors using different compounds measured in the fat, meat and plasma	598
Dourmad, J. Y., Hassouna, M., Robin, P., Guingand, N., Meunier-Salaün, M. C. and Lebret, B. Influence of pig rearing system on animal performance and manure composition	606
Product quality, human health and well-being Andersen, C., Weisbjerg, M. R., Hansen-Møller, J. and Sejrsen, K.	• · -
Effect of forage on the content of phyto-oestrogens in bovine milk	617

Cambridge Journals Online

For futher information about this journal please go to the journal web site at: journals.cambridge.org/anm



CAMBRIDGE UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

journals.cambridge.org Advancing research. Increasing access.

Informed by detailed consultation with the library and research communities, we are constantly developing our industry-leading online journals platform.

Some recent advances include:

- Refreshed site design, facilitating rapid access to the most relevant content.
- New advanced search interface and a more detailed, fielded quick search function.
- Enriched content in the form of multimedia companions and editorial blogs.
- The launch of Cambridge Open Option, our open access initiative. Visit journals.cambridge.org/openoption for more information.

Favor	ites Tools Window	
lorer File Edit	Print Mail	Bre
Home	www.mai?	Quick Search Search (crossfer search Actioned search (crossfer search)
Forward Son Refits	.8	cite search Author Lissue
CAMPRIDGE JOURN Home > Journal of Dairy Research Home > Journal of Dairy Research	brary of Music, Cambridge University	or Societies For Libit
Home > Journal of Dairy Research Faculty of Oriental Studies - University of Cambridge, Per		rch En
Library, a New Home About US New Welcome	Journal of Dairy Resear	arch park, UK
Welcourse now Begister now Guest Usename	Journal of Dairy nee Lournal of Dairy nee Editor(9): G. Chambertain, Hannah Research Pr D. G. Needo, Hannah Research Pr D. C. Needo, Hannah Research Pr E. C. N	ark, Uit
Password	Fditor	
		CAMBRIDGE
	journals.cambridge.org	S UNIVERSITY PRESS

CAMBRIDGE

JOURNALS



Experimental Agriculture

Experimental Agriculture is available online at journals.cambridge.org/eag

To subscribe contact Customer Services

in Cambridge: Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York: Phone (845) 353 7500 Fax (845) 353 4141 Email subscriptions_newyork@cambridge.org *Editor* Dave Harris, Bangor University, UK

Experimental Agriculture publishes the results of original research, from any source, on the agronomy of field, plantation and herbage crops grown for human or animal food, or for industrial purposes, and on systems of agricultural production, including livestock. With a focus on the warmer regions of the world, it reports on the results of experimental work designed to explain how crops respond to the environment in biological, and physical terms, and on the social and economic issues that may influence the uptake of the results of this research by farmers.

Price information is available at *journals.cambridge.org/eag*

Free email alerts Keep up-to-date with new material – sign up at *journals.cambridge.org/register*

For a free online sample visit: journals.cambridge.org/eag



CAMBRIDGE

JOURNALS



Journal of Helminthology is available online at journals.cambridge.org/jhl

To subscribe contact Customer Services

in Cambridge: Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York: Phone (845) 353 7500 Fax (845) 353 4141 Email subscriptions_newyork@cambridge.org

Journal of Helminthology

Editor John Lewis, Royal Holloway, University of London, UK

Journal of Helminthology publishes original papers and review articles on all aspects of pure and applied helminthology, particularly those helminth parasites of environmental health, medical or veterinary importance. Research papers on helminths in wildlife hosts, including plant and insect parasites, are also published along with taxonomic papers contributing to the systematics of a group. The journal will be of interest to academics and researchers involved in the fields of human and veterinary parasitology, public health, microbiology, ecology and biochemistry.

Price information is available at *journals.cambridge.org/jhl*

Free email alerts Keep up-to-date with new material – sign up at *journals.cambridge.org/register*

For a free online sample visit journals.cambridge.org/jhl