

# Cambridge Core

Explore today at cambridge.org/core

Cambridge Core



# APRIL 2017 VOLUME 11 NUMBER 4

# CONTENTS

	Breed	ing	and	ger	netics
--	-------	-----	-----	-----	--------

Liu.	H	Henrvon.	М.	and	Sørensen.	Α.	C
------	---	----------	----	-----	-----------	----	---

Mating strategies with genomic information reduce rates of inbreeding in animal breeding schemes with	nout
compromising genetic gain	

Iversen, M. W., Bolhuis, J. E., Camerlink, I., Ursinus, W. W., Reimert, I. and Duijvesteijn, N.

Heritability of the backtest response in piglets and its genetic correlations with production traits Hietala, P. and Juga, J.

Impact of including growth, carcass and feed efficiency traits in the breeding goal for combined milk and beef production systems

Biffani, S., Del Corvo, M., Capoferri, R., Pedretti, A., Luini, M., Williams, J. L., Pagnacco, G., Minvielle, F. and Minozzi, G.

An alternative experimental case-control design for genetic association studies on bovine mastitis

Grosse Brinkhaus, A., Wyss, U., Arrigo, Y., Girard, M., Bee, G., Zeitz, J. O., Kreuzer, M. and Dohme-Meier, F. In vitro ruminal fermentation characteristics and utilisable CP supply of sainfoin and birdsfoot trefoil silages and their mixtures with other legumes

Klop, G., van Laar-van Schuppen, S, Pellikaan, W. F., Hendriks, W. H., Bannink, A. and Dijkstra, J. Changes in in vitro gas and methane production from rumen fluid from dairy cows during adaptation to feed additives in vivo 591

Dezfoulian, A. H. and Aliarabi, H. A comparison between different concentrations and sources of cobalt in goat kid nutrition

600 Castagnino, D. S., Kammes, K. L., Allen, M. S., Gervais, R., Chouinard, P. Y. and Girard, C. L.

High-concentrate diets based on forages harvested at different maturity stages affect ruminal synthesis of B vitamins in lactating dairy cows

608 Santana, A., Cajarville, C., Mendoza, A. and Repetto, J. L.

Combination of legume-based herbage and total mixed ration (TMR) maintains intake and nutrient utilization of TMR and improves nitrogen utilization of herbage in heifers

# Physiology and functional biology of systems

Geppert, T. C., Meyer, A. M., Perry, G. A. and Gunn, P. J.

Effects of excess metabolizable protein on ovarian function and circulating amino acids of beef cows:

1. Excessive supply from corn gluten meal or soybean meal 625

Geppert, T. C., Meyer, A. M., Perry, G. A. and Gunn, P. J.

Effects of excess metabolizable protein on ovarian function and circulating amino acids of beef cows:

2. Excessive supply in varying concentrations from corn gluten meal

Lugar D. W., Rhoads M. L., Clark-Deener S. G., Callahan S. R., Revercomb A. K., Prusa K. J. and Estienne M. J. Immunological castration temporarily reduces testis size and function without long-term effects on libido and sperm quality in boars

Behaviour, welfare and health

Martín, P., Czycholl, I., Buxadé, C. and Krieter, J. Validation of a multi-criteria evaluation model for animal welfare

Pichová, K., Bilčík, B. and Košťál, L'.

Assessment of the effect of housing on feather damage in laying hens using IR thermography

Unterweger, C., Kahler, A., Gerlach, G.-F., Viehmann, M., von Altrock, A. and Hennig-Pauka, I. Administration of non-pathogenic isolates of Escherichia coli and Clostridium perfringens type A to piglets

in a herd affected with a high incidence of neonatal diarrhoea

Farming systems and environment

Omondi, I. A., Zander, K. K., Bauer, S. and Baltenweck, I.

Understanding farmers' preferences for artificial insemination services provided through dairy hubs

Traoré, S. A., Markemann, A., Reiber, C., Piepho, H. P. and Valle Zárate, A.

Production objectives, trait and breed preferences of farmers keeping N'Dama, Fulani Zebu and crossbred cattle and implications for breeding programs

Gallo, L., Sturaro, E. and Bittante, G.

Body traits, carcass characteristics and price of cull cows as affected by farm type, breed, age and calving to culling interval 696

Product quality, human health and well-being Mattioli, S., Ruggeri, S., Sebastiani, B., Brecchia, G., Dal Bosco, A., Cartoni Mancinelli, A. and Castellini, C.

Performance and egg quality of laying hens fed flaxseed: highlights on n-3 fatty acids, cholesterol, lignans and isoflavones

Lopes, P. A., Martins, A. P., Martins, S. V., Madeira, M. S., Santos, N. C., Moura, T. F., Prates, J. A. M. and Soveral, G. Higher membrane fluidity mediates the increased subcutaneous fatty acid content in pigs fed reduced protein diets

Ellies-Oury, M. P., Dumont, R., Perrier, G., Roux, M., Micol, D. and Picard, B.

Effect of age and carcass weight on quality traits of m. rectus abdominis from Charolais heifers

# **Cambridge Core**

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



MIX Paper from responsible sources **FSC® C007785** 



547

556

564

574

580

616

634

643

650

661

670

677

687

705

713

720











