

**Genetics, Animal Genetic Resources and Breeding***Original research articles*

Genetic parameters for animal mortality in pasture-based, seasonal-calving dairy and beef herds

S.C. Ring, R.D. Evans, M.L. Doherty and D.P. Berry

10

Genomic-polygenic and polygenic predictions for milk yield, fat yield, and age at first calving in Thai multibreed dairy population using genic and functional sets of genotypes

T. Laodim, M.A. Elzo, S. Koonawootrittriron,

T. Suwanasopee and D. Jattawa

17

Introducing the new parameter piglet index lifetime performance to reveal large differences in fertility at herd level

S. Hoy

25

Influence of exogenous fibrolytic enzymes on milk production efficiency and nutrient utilization in early lactating buffaloes fed diets with two proportions of oat silage to concentrate ratios

M. Arif, A.A. Al-Sagheer, A.Z.M. Salem, M.E.A. El-Hack,

A.A. Swelum, M. Saeed, M. Jamal and M. Akhtar

29

Linkage disequilibrium and population structure characterization in the cutting and racing lines of Quarter Horses bred in Brazil

C.M. Marchiori, G.L. Pereira, A.M. Maiorano,

G.M. Rogatto, A.D. Assoni, J. Augusto Il V. Silva,

L.A.L. Chardulo and R.A. Curi

45

Elevated incidence of freemartinism in pigs detected by droplet digital PCR and cytogenetic techniques

I. Szczerbal, J. Nowacka-Woszek, S. Dzimira,

A. Matuszczyk, P. Iskrzak and M. Switonski

52

A functional variant in the *stearoyl-CoA desaturase (SCD)* gene promoter affects gene expression in ovine muscle

J.H. Calvo, L. González-Calvo, E. Dervishi, M. Blanco,

L.P. Iguácel, P. Sarto, F.M. Pérez-Campo, M. Serrano,

A. Bolado-Carrancio, J.C. Rodríguez-Rey and M. Joy

62

Comparison of diversity parameters from SNP, microsatellites and pedigree records in the Lidia cattle breed

O. Cortés, P. Eusebi, S. Dunner, N. Sevane and J. Cañón

80

Genetic correlations among fertility traits and lactation persistency within and across Holstein herds with different milk production during the first three lactations

T. Yamazaki, H. Takeda, T. Osawa, S. Yamaguchi and

K. Hagiya

97

*Short communication*

Impact of incorporating greenhouse gas emission intensities in selection indexes for sow productivity traits

L. Alfonso

57

Genetics of linear type traits scored on young foals belonging to the Italian Heavy Draught Horse breed

F. Folla, C. Sartori, N. Guzzo, G. Pigozzi and

R. Mantovani

91

**Behaviour, Health and Welfare***Original research articles*

Welfare Quality<sup>®</sup> assessment of a fast-growing and a slower-growing broiler hybrid, reared until 10 weeks and fed a low-protein, high-protein or mussel-meal diet

S. Wilhelmsson, J. Yngvesson, L. Jönsson,

S. Gunnarsson and A. Wallenbeck

71

*Short communication*

The effect of pen environment on pen-mate directed behaviour prior to feeding in finisher pigs with intact tails

J. Klaaborg, A.R. Kristensen and P. Brandt

35

**Livestock Farming Systems and Management***Original research articles*

Prediction of voluntary dry matter intake in stall fed growing goats

A.K. de Almeida, L.O. Tedeschi, K.T. de Resende,

B. Biagioli, A. Cannas and I.A.M. de Almeida Teixeira

1

*Short communication*

Abortion and other risk factors for mastitis in Iranian dairy herds

H. Keshavarzi, A. Sadeghi-Sefidmazgi, A.H. Stygar and

A.R. Kristensen

40

Technical note: Evaluation of an automatic system for monitoring rumination time in weaning calves

J.P.P. Rodrigues, L.G.R. Pereira,

H. do Carmo Diniz Diniz Neto, M.C. Lombardi,

C.F. de Assis Lage, S.G. Coelho, J.P. Sacramento,

F.S. Machado, T.R. Tomich, R.M. Maurício and

M.M. Campos

86

**Physiology***Original research articles*

Carotenoids and tocopherol in plasma and subcutaneous fat colour to trace forage-feeding in growing steers

M. Blanco, G. Ripoll, I. Casasús, J.R. Bertolín and M. Joy

104