

SUMMARY LIST

NUTRITIONAL MANAGEMENT OF COW FERTILITY

- 225 Pre- and *post-partum* nutritional management to optimise fertility in high-yielding dairy cows in confined TMR systems
J K Drackley and F C Cardoso
- 226 Pre- and *post-partum* nutritional management to optimise fertility of dairy cows in pasture-based systems
S T Butler
- 227 Optimising reproductive performance of beef cows and replacement heifers
M G Diskin and D A Kenny

POST PARTUM COW MANAGEMENT AND HEALTH

- 228 Parturition to resumption of ovarian cyclicity: comparative aspects of beef and dairy cows
M A Crowe, M G Diskin, E J Williams
- 229 Reproductive tract inflammatory disease in *postpartum* dairy cows
S J LeBlanc

PREGNANCY ESTABLISHMENT

- 230 Maternal-embryo interaction leading up to the peri-implantation period of pregnancy in cattle
P Lonergan, N Forde
- 231 Physiological and practical effects of progesterone on reproduction in dairy cattle
M C Wiltbank, A H Souza, P D Carvalho, A P Cunha, J O Giordano, P M Fricke, G M Baez, M G Diskin
- 232 Endocrine and metabolic mechanisms linking *postpartum* glucose with early embryonic and foetal development in dairy cows
M C Lucy, S T Butler, H A Garverick

GENETICS OF FERTILITY

- 233 Heifer fertility and carry over consequences for life time production in dairy and beef cattle
D C Wathes, G E Pollott, K F Johnson, H Richardson, J S Cooke
- 234 Genetics and genomics of reproductive performance in dairy and beef cattle
D P Berry, E Wall, J E Pryce
- 235 Crossbreeding - Implications for dairy cow fertility
F Buckley, N Lopez-Villalobos, B J Heins

HEAT DETECTION AND OESTRUS/OVULATION SYNCHRONISATION

- 237 Expression and detection of oestrus in dairy cows: The role of new technologies
P M Fricke, P D Carvalho, J O Giordano, A Valenza, G Lopes Jr, M C Amundson
- 238 Synchronization of ovulation and fixed-time artificial insemination in beef cattle
G A Bo, P S Baruselli
- 239 Synchronization of ovulation for management of reproduction in dairy cows
R S Bisinotto, J E P Santos

SEXED SEMEN TECHNOLOGY AND ITS APPLICATION

- 240 Update on sexed semen technology in cattle
G E Seidel Jr
- 241 Applications and cost benefits of sexed semen in pasture-based dairy production systems
S T Butler, I A Hutchinson
- 242 Improving bovine semen diluents: insights from the male and female reproductive tracts
J A McGetrick, C J Reid, S D Carrington

HERD RECORDS AND MANAGEMENT

- 243 Herd monitoring to optimise fertility in the dairy cow - making the most of herd records, metabolic profiling and ultrasonography (research into practice)
R F Smith, J Oultram, H Dobson
- 244 Use of herd management programmes to improve reproductive performance of dairy cattle
S McDougall, C Heuer, J Moreton, T Brownlie

THE CONFERENCE IN PERSPECTIVE

- 245 Economics of fertility in high-yielding dairy cows on confined TMR systems
V E Cabrera
- 246 Effect of fertility on the economics of pasture-based dairy systems
L Shalloo, A Cromie, N McHugh

SUBMITTED ORAL PRESENTATIONS

- 247 β -carotene supplementation to non-lactating dairy cows can restore β -carotene availability in the follicular environment under negative energy balance conditions
J De Bie, A Langbeek, A Verlaet, F Florizoone, I Immig, N Hermans, P E J Bols, J L M R Leroy
- 248 Live cell imaging in the female genital tract - new aspects for improving cow fertility
S Koelle, R Leeb, M Trottmann
- 249 Correlation study between reproduction and milk production traits in Holstein bulls with genetic evaluation available in Brazil
D C Cucco, A Capelesso, J T Calgato, E Ticiani, L G Gaya, M P Soares
- 250 Differential Immunoglobulin G glycosylation in *postpartum* dairy cows with uterine disease: potential for a predictive test
E J Williams, H Stoeckmann, L Hobbs, B Adamczyk, A C O Evans, P Rudd, S D Carrington
- 251 Optimal insemination time, oestrous characteristics and factors influencing conception rate on Dutch dairy farms equipped with pedometers
J Roelofs, K Huijps
- 252 Phenotypic and genotypic associations between multiple ovulations and milk production, longevity, fertility, and somatic cell count in Irish dairy cows
A Fitzgerald, D P Berry, R Evans, D Ryan
- 253 Incidence of clinical and subclinical endometritis in pasture managed dairy cows in Argentina and their effects on pregnancy rate at 100 days *post partum*
P M Chesta, Y Bonomini, F Mansutti, G Curchod, A Larriestra, G A Bó

- 254 The effect of genetic merit for fertility traits on the transcriptome of the bovine endometrium on day 13 of the oestrous cycle
S G Moore, M McCabe, P Cormican, T Fair, P Lonergan, A J Chamberlain, J E Pryce, S T Butler
- 255 The *in vitro* assessment of sex-sorted fresh and frozen bull sperm
S A Holden, C Murphy, J F Moreno, A R Cromie, S T Butler, P Lonergan, S Fair

SUBMITTED POSTER PRESENTATIONS

- 256 Genome-wide association study of fertility traits in dairy cows
J Wu, J Zhang, M Teng, L Yang, J Yi, G Ha, J S Cooke, A M Clempson, G E Pollot, D C Wathes, S Zhang
- 257 Importance of reproductive traits on the moment of semen acquisition for dairy cattle by public agencies in Western Santa Catarina State - Brazil
V Broch, D C Cucco, J T Calgaro, R Ferreira, C Meotti, R Moura
- 258 Correlation study between reproduction and conformation traits in Holstein bulls with genetic evaluation available in Brazil
D C Cucco, A Capelesso, E Ticiani, J T Calgaro, L G Gaya, M P Soares
- 259 A comparison of the concentrations of pro-inflammatory cytokines in the uterine flush of dairy cows with or without endometritis
I H Kim, H G Kang, J K Jeong, T Y Hur, Y H Jung
- 260 Survey of genomic management practices of United States' dairy producers
J C Dalton, D Moore, T Spencer, H L Neibergs, A DeVries, P J Hansen, J B Cole
- 261 Effect of timing of artificial insemination and ovulation in relation to onset of standing heat on pregnancy rate in dairy buffaloes
N Ahmad, U Riaz, A Husnain, M Hassan, M I Naveed, A Sattar
- 262 Elevated non-esterified fatty acid concentrations during bovine oocyte maturation influences DNA methylation in blastocysts
K Desmet, V Van Hoeck, E Merckx, M.-A. Sirard, P E J Bols, J L M R Leroy
- 263 The effect of lameness on oestrus activity in high yielding Holstein-Friesian dairy cattle with access to pasture
A Ward, J Scaife, N Blackie
- 264 The effect of bovine placenta extract application on the postnatal complications, insemination efficiency and milk yield of the first lactation period Russian Black Pied cows
O S Mityashova, A A Goldina, G N Singina, N A Zinovieva
- 265 Comparison of two oestradiol esters administered with previously used CIDR for oestrous synchronization in buffalo cows during the low breeding season
A Sattar, M Ramzan, A Riaz, M-D Ahmad, A Haq, Nasim Ahmad
- 266 Trends and research in genetic aspects of fertility of dairy cattle in New Zealand
N Dennis, P Amer, K Stachowicz, G Jenkins, S Meier
- 267 Failure to Imprint: Hypomethylation trends at imprinted loci in oocytes recovered from *postpartum* dairy cows
A M O'Doherty, A O'Gorman, A Al Naib, L Brennan, E Daly, P Duffy, T Fair
- 268 Associations between polymorphisms in five candidate genes, identified from transcriptional profiling of uterine endometrial tissue, in Holstein-Friesian bulls with either high or low genetic merit for calving interval
M P Mullen, A P Killeen, D P Berry, C J Creevey, M G Diskin, D A Kenny, S M Waters

- 269 Insulin during oocyte maturation alters gene expression and development rates in *in vitro* produced Day 8 bovine blastocysts
D Laskowski, Y Sjunnesson, M.-A Sirard, H Gustafsson, R Båge, G Andersson, P Humblot
- 270 Effect of lactation on the metabolic profile of dairy cattle
N Forde, L O'Hara, A Kelly, P Duffy, P Lonergan
- 271 Optimising the storage temperature and sperm concentration of liquid stored bull sperm
C Murphy, S A Holden, S Fair
- 272 Effect of equine chorionic gonadotrophin administration on corpus luteum development, circulating progesterone concentrations and embryo development in cattle
L O'Hara, N Forde, P Duffy, F Randi, A Kelly, P Rodriguez, P Lonergan
- 273 The use of a cow-side lateral flow milk progesterone test to aid reproductive management in a dairy herd
P Ball, R Rogerson, G Maconochie, A Peters, M Hollingshead, M Fisher
- 274 Breeding soundness evaluation of 40 bulls with reduced reproductive performance: a retrospective study
M Beltman, M Canty
- 275 Effect of physiological / disease status on the response of *post partum* dairy cows to synchronisation of oestrus using a CIDR device
J Mc Nally, M Crowe, M Beltman
- 276 Genetic associations between detailed reproductive traits and milk production in dairy cows
T R Carthy, D P Berry, E J Williams, R D Evan, D P Ryan
- 277 Superovulation rates and embryo yields for heritage breed cattle and commercial dairy cattle
K Lindell, D Roof, S Bowley
- 278 Expression of IL-1 β and its receptor IL R 1 α in bovine endometrium and embryos during early development
E Correia-Alvarez, E Gomez, N Caamaño, C Diez, D Martin, S Carrocera, M Muñoz
- 279 Age-dependant adaptive capacity of bull sires during prolonged heat stress.
A Abilov, H Amerkhanov, G Eskin, N Kombarova, N Zhavoronkova, I Turbina, E Fedorova, S Guskova
- 280 Reproductive performance on four Irish grass based dairy herds: associations with milk production and milk composition
C Lynch, D A Kenny, M G Diskin