

# Publications

## Publications in Refereed Journals

### **Bordignon, V.**

Zhang, W., L. Poirier, M. Martinez-Diaz, **V. Bordignon** and H.J. Clarke. 2009. Maternally encoded stem-loop-binding protein is degraded in 2-cell mouse embryos by the co-ordinated activity of two separately regulated pathways. *Developmental Biology* 328: 140–147.

Labrecque, B., O. Mathieu, **V. Bordignon**, B.D. Murphy BD and M.F. Palin. 2009. Identification of differentially expressed genes in a porcine in vivo model of adipogenesis using suppression subtractive hybridization. *Comparative Biochemistry and Physiology, Part D* 4: 32–44.

Labrecque, B., D. Beaudry, M. Mayhue, C. Hallé, **V. Bordignon**, B.D. Murphy and M.F. Palin. 2009. Molecular characterization and expression analysis of the porcine paraoxonase 3 (PON3) gene. *Gene* 443: 110–120.

Baldassarre, H, M. Schirm, J. Deslauriers, C. Turcotte and **V. Bordignon**. 2009. Protein profile and alpha-lactalbumin concentration in the milk of standard and transgenic goats expressing recombinant human butyrylcholinesterase. *Transgenic Research* 18: 621-632.

### **Chénier, M.**

**Chénier, M.R.** and P. Juteau. 2009. Fate of chlortetracycline- and tylosin-resistant bacteria in an aerobic thermophilic sequencing batch reactor treating swine waste. *Microbial Ecology* 58: 86-97.

**Chénier, M.R.** and P. Juteau. 2009. Impact of an aerobic thermophilic sequencing batch reactor on antibiotic-resistant anaerobic bacteria in swine waste. *Microbial Ecology* 58: 773-785.

**Duggavathi, R.**

**Duggavathi, R.** and B.D. Murphy BD. 2009. Ovulation signals. *Science* 324:890-891.

Mouzat, K., F. Volat, S. Baron, G. Alves, A.J. Pommier, D.H. Volle, G. Marceau, A. DeHaze, P. Déchelotte, **R. Duggavathi**, F. Caira and J.M. Lobaccaro. 2009. Absence of nuclear receptors for oxysterols liver X receptor induces ovarian hyperstimulation syndrome in mice. *Endocrinology* 150: 3369-3375.

**Hayes, J.F.**

-----See Zhao, X.

**Kimmins, S.**

Godmann M, R. Lambrot and **S.Kimmins**. 2009. The dynamic epigenetic program in male germ cells: its role in spermatogenesis and its response to the environment. *Microscopy Research and Techniques* 72: 603-619.

**Mustafa, A.**

Souza, E.J., A. Guim, Â.M.V. Batista, K.L. Santos, J.R. Silva, N.A.P. Morais and **A.F. Mustafa**. 2009. Effects of soybean hulls inclusion on intake, total tract nutrient utilization and ruminal fermentation of goats fed spineless cactus (*Opuntia ficus-indica* Mill) based diets. *Small Rumin. Res.* 85: 63-69.

Levital, T., **A. Mustafa**, P. Seguin and G. Lefebvre. 2009. Effects of a propionic acid-based additive on short term ensiling characteristics of whole plant maize and on dairy cow performance. *Anim. Feed Sci. Technol.* 152: 21-32

Batista, A.M., A.C. Ribeironeto, R.B. Lucena, D.C. Santos, J.B. Dubeux Jr and **A.F. Mustafa**. 2009. Chemical composition and ruminal degradability of spineless cactus grown in northeast Brazil. *J. Range Ecol. Manag.* 62: 297-301.

Cabrel, A.D., A.M. Batista, **A.F. Mustafa**, F.R. Carvalho and A. Guim. 2009. Performance of dairy goats fed whole sugarcane.. *Trop. Anim. Health Prod.*41: 279-283.

----- See Zhao, X.

**Phillip, L.E.**

Wang, Y., T. Marx, J. Lora, T.A. McAllister and **L.E. Phillip**. 2009. Effects of purified lignin on in vitro ruminal fermentation and growth performance, carcass traits and fecal shedding of *Escherichia coli* by feedlot lambs. *Animal Feed Science and Technology*. 151: 21-31.

**Zadworny, D.**

Hiyama, G., N. Kansaku, M. Kinoshita, T. Sasanami, A. Nakamura, K. Noda, A. Tsukada, K. Shimada and **D. Zadworny**. 2009. Changes in post-translational modifications of prolactin during development and reproductive cycles in the chicken. *Gen. Comp. Endocrinol.* 161: 238-245.

Hiyama, G., T. Sato, **D. Zadworny** and N. Kansaku. 2009. Cloning of PRL and VIP cDNAs of the Java sparrow (*Padda Orzivora*). *Animal Sci. J.* 80: 176-186.

Hiyama, G., T. Sato, **D. Zadworny** and N. Kansaku. 2009. Cloning and comparison of the prolactin promoter in galliformes. *J. Poultry Sci.* 46: 6-12

**Zhao, X.**

Kurtovic I., S. Marshall, **X. Zhao** and B. Simpson. 2009. Lipases from mammals and fish Marine lipases – properties and potential applications. *Rev. Fish Sci.* 17: 18-40.

Zhu, L.Q., M. Ren, Y.Q. Lin, X.Y. Ding, G.P. Zhang, **X. Zhao** and G.Q. Zhu. 2009. Identification of a bovine viral diarrhea virus 2 isolated from cattle in China. *Acta Virologica* 53: 131–134.

Baurhoo, B., P. R. Ferket and **X. Zhao**. 2009. Effects of diets containing different concentrations of mannanoligosaccharide or antibiotics on growth performance, intestinal development, cecal and litter microbial populations, and carcass parameters of broilers. *Poultry Sci.* 88: 2262–2272.

Kgwatalala, P.M., E.M. Ibeagha-Awemu, A. Mustafa and **X. Zhao**. 2009. Stearoyl-CoA desaturase 1 genotype and stage of lactation influence milk fatty acid composition of Canadian Holstein cows. *Animal Genet.* 40: 609–615.

- Lai, I.H., J.H. Tsao, Y.P. Lu, J.W. Lee, **X. Zhao**, F.L. Chien and S.J.T. Mao. 2009. Neutrophils as one of the major haptoglobin sources in mastitis affected milk. *Vet. Res.* 40: 17.
- Loiselle, M.C., C. Ster, B. Talbot, **X. Zhao**, G. Wagner, Y. Boisclair and P. Lacasse. 2009. Impact of postpartum milking frequency on the immune system and the blood metabolite concentration of dairy cows. *J. Dairy Sci.* 92: 1900–1912.
- Said, K. B., K. Ramotar, G. Zhu and **X. Zhao**. 2009. Repeat-based subtyping and evolutionary analysis of *Staphylococcus aureus* of human and bovine mastitis lineage using the R domain of the clumping factor A gene. *Diagn. Microbiol. Infect Dis.* 63: 24–37.
- Baurhoo, B., F. Goldflus and **X. Zhao**. 2009. Purified cell wall of *Saccharomyces cerevisiae* increases protection against intestinal pathogens in broiler chickens. *International J. Poultry Sci.* 8: 133-137.
- Ibeagha, A.E., E. Ibeagha-Awemu, J. Mehrzad, B. Baurhoo, P. Kgwatalala and **X. Zhao**. 2009. The effect of selenium source and supplementation on neutrophil functions in dairy cows. *Animal* 3: 037–1043.
- Kgwatalala, P.M., E. Ibeagha-Awemu, J. Hayes and **X. Zhao**. 2009. Stearoyl-CoA desaturase 1 (SCD1) 3'UTR SNPs and their influence on milk fatty acid composition of Canadian Holstein cows. *J. Anim. Breed. Genet.* 126:394–403.
- Kgwatalala, P. M., E. Ibeagha-Awemu, A. Mustafa and **X. Zhao**. 2009. Influence of stearoyl-CoA desaturase 1 (SCD1) genotype and stage of lactation on desaturase indices and fatty acid composition of Canadian Jersey cows. *J. Dairy Sci.* 92: 1220–1228.
- Tiwari, J., S. Barrington and **X. Zhao**. 2009. Effect on manure characteristics of supplementing grower hog ration with clinoptilolite. *Micropor. Mesopor. Mater.* 118:93-99.

## Publications Presented to Scholarly Conferences (Abstracts & Proceedings)

### **Bordignon, V.**

Coutinho, A.R.S. and **V. Bordignon**. 2009. Swine embryos with high potential to develop in vitro have less YH2A.X and more proteins. *Reproduction, Fertility and Development* 22(1): 221.

El-Beirouthi, N., M. Albornoz, M.a. Martinez-Diaz, D. Zadworny, L.B. Agellon and **V. Bordignon**, 2009. Production of cloned pigs expressing apolipoprotein E-specific shRNA. *Reproduction, Fertility and Development* 22(1): 369.

### **Chénier, M.**

**Chénier M.R.** and P. Juteau. 2009. Can a biological treatment mitigate the occurrence of antibiotic resistance in swine waste? 59th Annual Meeting of the Canadian Society of Microbiologists, June 15th-18th, 2009, Montreal, QC. Presentation AE12, page 32.

**Chénier M.R.** 2009. Bacterial antibiotic resistance in swine production. 59th Annual Meeting of the Canadian Society of Microbiologists, June 15th-18th, 2009, Montreal, QC. Poster AE12b, page 65.

### **Cue, R.**

----- See Hayes, J.F.

----- See Phillip, L.E.

### **Hayes, J.F.**

Song, J., **J.F. Hayes** and R.I. Cue. 2009. Estimates of heritability of feed intake in Canadian Holsteins. *J. Dairy Sci.* 92, E-Suppl. 1: 352.

**Phillip, L.E.**

Chong, K., **L. Phillip**, R. Cue and N. Walker. 2009. Effect of a prebiotic (AgriMOS) and a probiotic (Levucell SB) on performance, health and fecal microflora of veal calves. 2009 Joint ADSA-CSAS-ASAS Annual Meeting. July 12-16, 2009. Montreal, Quebec, Canada. . J. Anim. Sci. Vol. 87, E-Suppl. 2/J. Dairy Sci. Vol. 92, E-Suppl. 1, p.289.

Amusan, A.R., V. Fournier, **L.E. Phillip**, V. Orsat and B.K. Simpson. 2009. Microwave assisted fat extraction of animal fatty tissues enhanced by protease hydrolysis. IFT09, Annual Meeting & Food Expo, June 6-9, Anaheim, California, USA.

Amusan, A.R., V. Fournier, **L.E. Phillip**, M.O. Ngadi and B.K. Simpson. 2009. Influence of pulsed electric fields on quality and yield of fat from animal fatty tissue. IFT09, Annual Meeting & Food Expo, June 6-9, Anaheim, California, USA.

Aryee, A.N.A., V. Fournier, **L.E. Phillip** and B.K. Simpson. 2009. Immobilized lipase as catalyst for biodiesel production from recovered processing waste oil and fat. IFT09, Annual Meeting & Food Expo, June 6-9, Anaheim, California, USA.

**Zadworny, D.**

Hiyama, G., R. McQuaid, C. Lafleur, I.J.Reddy. Ippala, N. Kansaku and **D. Zadworny**. 2009. Knockdown of prolactin gene expression during late embryogenesis in the turkey. J. Endocrine Society, Sapporo, Japan Nov. 7-9

-----See Bordignon, V.

**Zhao, X.**

Lessard, M. and **X. Zhao**. 2009. Use of probiotics and prebiotics to modulate intestinal health in monogastric farm animals. J. Anim. Sci. 87, E. Suppl. 2: 537