

Selected Publications

James, M. M., **DeSilva, U.** and Gilland, S. E., (2009) A Diagnostic method to allow strain-level identification of enterotoxigenic *Staphylococcus aureus* based on the nucleotide sequence of enterotoxin gene and the amino acid sequence of its enterotoxin (submitted)

Fernando, S. C., Purvis, H. T., Najar, F. Z., Sukharnikov, L. O., Krehbiel, C. R., Nagaraja, T. G., Roe, B. A., and **DeSilva, U.** (2009) Rumen microbial population dynamics during sub acute ruminal acidosis. (submitted)

Talley, J. L., Wayadande, A. C., Wasala, L. P., Gerry, A. C., Fletcher, J., **DeSilva, U.**, and Gilliland, S. E. (2009) Association of E.coli O157:H7 with flies (Muscidae, Calliphoridae) captured in leafy green fields and experimental transmission to spinach leaves by house flies (Diptera: Muscidae). *Journal of Food Protection* 72, 1547-1552

Reddy, A.R., Zheng, Y., Jagadeeswaran, G., Macmil, S., Wiley, G., Roe, B.A., **DeSilva, U.**, Zhang, W., and Sunkar, R. 2009. Cloning, characterization and expression analysis of porcine microRNAs. *BMC Genomics* 10:65

Davis, R. L., Buck, D. J., Saffarian, N., Mohan, S., Fernando, S. C., **DeSilva, U.** and Stevens, C. W. (2008) β -Funaltrexamine inhibits inducible nitric-oxide synthase expression in human astroglial cells. *Journal of Neuroimmunology* 203, 150-153

Ross, J. W., Ashworth, M. D., White, F. J., Johnson, G. A., Ayoubi, P. J., **DeSilva, U.**, Whitworth, K. M., Prather, R. S., and Geisert, R. D. (2007) Premature estrogen exposure alters endometrial gene expression to disrupt pregnancy in the pig. *Endocrinology* 148, 4761-4773.

DeSilva, U. and Pillai, A. T. V. Genetic control of fat deposition in cattle. 1-8. 2007. Amarillo, TX, Texas A&M University Agricultural Research and Extension Center. Plains Nutrition Council Spring Conference. 3-29-0007.

Fernando, S. C., Najar, F. Z., Guo, X., Zhou, L., Fu, Y., Geisert, R. D., Roe, B. A., and **DeSilva, U.*** 2007 Isolation and Characterization of the Porcine Kallikrein Gene Family:

Genomic Structure, Radiation-Hybrid Mapping and Differential Expression Analysis. *Genomics* 89: 429-438

Bommineni, Y.R., Dai, H., Gong, Y. X., Soulages, J. L., Fernando, C. S., **DeSilva, U.**, Prakash, O., and Zhang, G. 2007 Fowlicidin-3 is an alpha-helical cationic host defense peptide with potent antibacterial and lipopolysaccharide-neutralizing activities. *FEBS Journal* 274 (2): 418-428

Geisert, R. D., Ross, J. W., Ashworth, M. D., White, F. J., Johnson, G. A., and **DeSilva, U.** (2006) Maternal recognition of pregnancy signal or endocrine disruptor: the two faces of oestrogen during establishment of pregnancy in the pig. *Soc Reprod Fertil Suppl* 62:131-45.

Ashworth, M.D., Ross, J.W., Hu, J., White, F.J., Stein, D.R., **DeSilva, U.**, Johnson, G.A., Spencer, T.E., and Geisert, R.D. 2006. Expression of porcine endometrial prostaglandin synthase during the estrous cycle and early pregnancy, and following endocrine disruption of pregnancy. *Biol.Reprod.* 74:1007-1015

Fernando, S. C., Ashworth, M.S., Ross, J. W., Geisert, R. D., and **DeSilva, U***. 2006 Porcine endometrial and conceptus tissue kallikrein 1,4,11 and 14 gene expression. *Reproduction* 132,1-10

Ross, J. W., Smith, T. K., Krehbiel, C. R., Malayer, J. R., **DeSilva, U.**, Morgan, J. B., White, F. J., Hersom, M. J., Horn, G. W., and Geisert, R. D. (2005). Effects of grazing program and subsequent finishing on gene expression in different adipose tissue depots in beef steers. *Journal of Animal Science* 83, 1914-1923.

Vonnahme K. A., Fernando, S. C., Ross, J. A., Ashworth, M. D., **DeSilva, U.**, Malayer, J. R., and Geisert, R. D. 2004 Porcine Endometrial and Conceptus Expression of Kininogens and Plasma Kallikrein in Cyclic and Pregnant Gilts. *Biology of Reproduction* 70, 132-138

Adelson, D. L., Cam, G. R., **DeSilva, U.**, and Franklin, I. R. 2004. Gene Expression in Sheep Skin and Wool (Hair). *Genomics* 83, 95-105

DeSilva, U*, Guo, X., Kupfer, D. M., Fernando, S. C., Pillai, A. T. V., Najar, F. Z., So, S., Fitch, G. Q., and Roe, B. A., 2003. Allelic Variants of Ovine Prion Protein Gene (PRNP) in Oklahoma Sheep. *Cytogenetics and Genome Research* 102 (1-4), 89-94.

DeSilva, U*, Franklin, I. R., Maddox, J. F., van Hest, B., Adelson, D. L. 2003. Systematic Screening of Sheep cDNA Libraries for Microsatellite Sequences. *Cytogenetics and Genome Research* 102 (1-4), 79-84

Guo, X., Kupfer, D. M., Fitch, G. Q., Roe, B. A., and **DeSilva, U***. 2003. Identification of a Novel Lysine-171 Allele in the Ovine Prion Protein (PRNP) Gene. *Animal Genetics*. 34, 303-305

DeSilva, U*, Elnitski, L., Idol, J. R., Doyle, J. L., Gan, W., Thomas, J. W., Schwartz, S., Dietrich, N. L., Beckstrom-Sternberg, S. M., McDowell, J. C., Blakesly, R. W., Bouffard, G. G., Thomas, P. J., Touchman, J. W., Miller, W., and Green, E. D. 2002. Generation and Comparative Analysis of ~3.3 Mb of Mouse Genomic Sequence Orthologous to the Region of Human Chromosome 7q11.23 Implicated in Williams Syndrome. *Genome Research*. 12, 3-15

Doyle, J. L., **DeSilva, U.**, Miller, W., Green, E. D., 2000. Divergent human and mouse orthologs of a novel gene (*WBSCR15/Wbscr15*) reside within the genomic interval commonly deleted in Williams syndrome. *Cytogenetics and Cell Genetics*. 90(3-4): 285-290

DeSilva, U*, Miller E., Goerlach, A., Foster, C. B., Green, E. D., and Chanock. S. J. 2000. Molecular characterization of the mouse p47-phox (NCF1) gene and comparative analysis of the mouse p47-phox (Ncf1) gene to the human NCF1 gene. *Molecular Cell Biology Research Communications*. 3(4): 224-230.

DeSilva, U*, Massa, H., Trask, B. J., and Green, E.D. 1999. Comparative mapping of the region of human chromosome 7 deleted in Williams syndrome. *Genome Research*. 9: 428-436.

DeSilva, U*, D'Arcangelo, G., Braden, V. V., Chen, J., Miao, G. G., Curran, T. and Green, E. D. 1997. The Human Reelin Gene: Isolation, Sequencing, and Mapping on Chromosome 7. *Genome Research*. 7: 157-165.

Green, E. D., Maffei, M., Braden, V. V., Proenca, R., **DeSilva, U.**, Zhang, Y., Chua, S. C. Jr., Leibel, R. L., Weissenbach, J. and Friedman, J. M. 1995. The human obese (OB) gene: RNA expression pattern and mapping on the physical, cytogenetic, and genetic maps of chromosome 7. *Genome Research*. 5: 5-12.

Krizman, D. B., Hofmann, T. A., **DeSilva, U.**, Green, E. D., Meltzer, P. S. and Trent J. M. 1995. Identification of 3'-terminal exons from yeast artificial chromosomes. *PCR Methods & Applications*. 4:322-6.