

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Michael C. Golding	POSITION TITLE Assistant Professor Department of Veterinary Physiology & Pharmacology		
eRA COMMONS USER NAME (credential, e.g., agency login) mgolding			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Western Ontario	B.Sc.	2000	Molecular Genetics
Texas A&M University	PhD	2003	Veterinary Physiology
Cold Spring Harbor Labs	Postdoctoral	2006	Molecular Biology
University of Western Ontario	Postdoctoral	2009	Obstetrics & Gynecology

A. Positions and Honors.

Positions and Employment

1999-2000 Honors Molecular Genetics Student, University of Western Ontario
 2000-2003 Graduate Student, Veterinary Physiology & Pharmacology, Texas A&M University
 2004-2004 Post-Doctoral Fellow, College Of Veterinary Medicine, Texas A&M University
 2004–2006 Post-Doctoral Fellow, Cold Spring Harbor Laboratory
 2006-2009 Post-Doctoral Fellow, Child Health Research Institute, University of Western Ontario
 2009- Assistant Professor, College of Veterinary Medicine, Texas A&M University.

Other Experience and Professional Memberships

2007 - 2009 Children's Health Research Institute Task force for excellence (member)
 2007 - 2009 Children's Health Research Institute Trainee Leadership Committee (Chair)

Honors

Dr. David Whaley Postdoctoral Fellowship in Maternal/Foetal/Neonatal Research, 2006
 Ontario Women's Health Council/Canadian Institutes of Health Research - Institute of Gender and Health,
 Postdoctoral Fellowship, 2006
 Wyeth Award for Excellence in Research, Department of Obstetrics and Gynaecology, 2007
 NIH Young Investigator Award, Perinatal Research Society, 2008

B. Selected peer-reviewed publications

1. D. Holstead Jones, **Michael C. Golding**, Kevin J. Barr, Guo-Hua Fong and Gerald M. Kidder. The mouse Na⁺ -K⁺ -ATPase g-subunit gene (Fxyd2) encodes three developmentally regulated transcripts. *Physiological Genomics* 6: 129-135, 2001.
2. **Michael C. Golding** and Mark E. Westhusin. Analysis of DNA (cytosine 5) Methyltransferase mRNA Sequence and Expression in Bovine Preimplantation Embryos, Fetal and Adult Tissues. *Gene Expression Patterns* Vol 3 pp 551-558, 2003.
3. Jessica R. Harrington, **Michael C. Golding**, Natalie D. Halbert, Ronald J. Martens, and Noah D. Cohen. (2005). Evaluation of a real-time quantitative polymerase chain reaction assay for

detection and quantitation of virulent *Rhodococcus equi*. *American Journal of Veterinary Research* Vol 66 pp755-761.

4. Jose M Silva, Mamie Li, Ken Chang, Wei Ge, **Michael C Golding**, Ricky Rickles, Despina Siolas, Guang Hu, Patrick J. Paddison, Michael R. Schlabach, Nihar Sheth, Jeff Bradshaw, Julia Burchard, Guy Cavet, Ravi Sachidanandam, W. Richard McCombie, Michele A. Cleary, Stephen J. Elledge, and Gregory J. Hannon. 2005 Second-generation shRNA libraries to the mouse and human genomes. *Nature Genetics* Vol 37 pp 1281-8.
5. **Michael C. Golding**, Charels R. Long, Michelle A. Carmell, Gregory J. Hannon and Mark E. Westhusin. 2006 RNA Interference: Suppression of prion protein in livestock by RNA interference. *Proc Natl Acad Sci U S A*. 2006 Apr 4;103(14):5285-90.
6. Willingham-Rocky LA, **Golding MC**, Wright JM, Kraemer DC, Westhusin ME, Burghardt RC. Cloning of *GJA1* (connexin43) and its expression in canine ovarian follicles throughout the estrous cycle. **Gene Expr Patterns**. 2007 7(1-2):66-71.
7. Kuzmin A, Han Z, **Golding MC**, Mann MR, Latham KE, Varmuza S. The PcG gene *Sfmbt2* is paternally expressed in extraembryonic tissues. **Gene Expr Patterns**. 2008 8(2):107-16.
8. Silva JM, Marran K, Parker JS, Silva J, **Golding M**, Schlabach MR, Elledge SJ, Hannon GJ, Chang K. Profiling essential genes in human mammary cells by multiplex RNAi screening. **Science**. 2008 319(5863):617-20.
9. **Golding MC**, Zhang L, Mann MRW Screening for epigenetic modifiers of retroviral extinction in the extra-embryonic lineages. *Cell Stem Cell Manuscript under revision*.
10. **Golding MC**, Lalone SA, Higgins MJ, Mann MR. RNAi suppression of the non-coding RNA *Kcnq1ot1* does not perturb mono-allelic expression of the *Kcnq1* locus in ES, TS and XEN stem cells. *Manuscript in preparation*.

C. Research Support.