

BIOGRAPHICAL SKETCH

NAME ERIN D GILES		POSITION TITLE POSTDOCTORAL FELLOW	
eRA COMMONS USER NAME			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Guelph, Guelph, ON, Canada	BSc	2000	Biomedical Science
McMaster University, Hamilton, ON, Canada	PhD	2007	Medical Science
University of Colorado Denver, Aurora, CO, USA	Fellow	2008-present	Metabolism & Cancer

A. POSITIONS and HONORS**Positions and Appointments**

1999 – 2000	Summer Research Assistant & Thesis Student, Dept. of Biomedical Sciences (Neuroscience), University of Guelph.
2000	Summer Research Assistant, Animal Biotechnology & Embryology Lab, University of Guelph
2000 – 2004	Teaching Assistant, Human Anatomy, Molecular Biology, & Human Physiology, McMaster University
2001 – 2003	Lets Talk Science Program – volunteer teaching science at elementary schools
2000 – 2007	Graduate Student, Juravinski Cancer Centre & McMaster University, Hamilton, ON CANADA
2008 –	Postdoctoral Fellow, Division of Endocrinology, Metabolism & Diabetes, University of Colorado Denver, Aurora, CO.

Professional and Other Experience

1996 – 2000	Biomedical Science Students' Association (U. of Guelph); President (1999-2000)
1998 – 2000	Biomedical Sciences Curriculum Committee (U. of Guelph) – student representative
2000 – 2006	Medical Science Graduate Students' Association (McMaster University) – Off-Campus Representative
2000 – present	Member of American Association for Cancer Research
2005 – 2007	McMaster University Graduate Council – student representative
2008 – present	Member of Endocrine Society
2008 – present	Member of The Obesity Society
2009 – present	Postdoctoral Advisory Committee (U. of Colorado Denver) – postdoc representative

Awards

1996 – 2000	Deans Honor List, University of Guelph
1999	Undergraduate Research Assistantship, University of Guelph (\$4000)
2000 – 2001	Graduate Scholarship, McMaster University (\$11,764/year)
2001 – 2003	Ontario Graduate Scholarship (\$15,000/year)
2003	Gordon Research Conference, Scholar Travel Award
2003 – 2005	Canadian Breast Cancer Foundation Research Fellowship (\$35,000/year)
2006	McMaster University, Dept. of Oncology, Residents Research Day, 1st place (oral)
2008	University of Colorado Denver, School of Medicine Research Day, 1st place postdoctoral fellows category (\$200)
2009	Thorkildsen Research Fellowship, UC Denver (\$35,000)
2009	Kern Aspen Lipid Conference - Early Career Investigator Travel Award (\$750)

B. PUBLICATIONS

Peer Reviewed

1. Rankin, S.L., Partlow, G.D., McCurdy, R.D., **Giles, E.D.**, and Fisher, K.R.S. "Postnatal Neurogenesis in the Vasopressin and Oxytocin-Containing Nucleus of the Pig Hypothalamus." *Brain Res.* 2003 May 9;971(2):189-96.
2. **Giles, E.D.** and Singh, G. "Role of insulin-like growth factor binding proteins (IGFBPs) in breast cancer proliferation and metastasis." *Clin Exp Metastasis.* 2003;20(6):481-7.
3. Rankin S.L., Partlow G.D., McCurdy R.D., **Giles E.D.**, Fisher K.R. "The use of proliferating cell nuclear antigen immunohistochemistry with a unique functional marker to detect postnatal neurogenesis in paraffin-embedded sections of the mature pig brain." *Brain Res Protoc.* 2004 Jun;13(2):69-75
4. MacLean, P.S., Higgins, J.A., Wyatt, H., Melanson, E., Johnson, G.C., Jackman, M.R., **Giles, E.D.**, Brown, I., and Hill, J.O. "Regular Exercise Attenuates the Metabolic Drive to Regain Weight After Long Term Weight Loss. *Am J Physiol Regul Integr Comp Physiol*, 2009. 297(3): p. R793-802.
5. MacLean, P.S., **Giles, E.D.**, Gilman, K.A., Johnson, G.C., Andrianakos, A.G., Fleming-Elder, B.K., McDaniel, S.M., Jackman, M.R., Shroyer, K.G., and Schedin, P.J. "A surprising link between the energetics of weight gain and mammary tumor progression in a model of postmenopausal obesity." *Obesity* (Epub ahead of print; Silver Spring), 2009.

Book Chapters

1. **Giles, E.D.** and Singh, G. "Role of TGF- β and IGF in Tumor Progression and Bone Metastases." *In Bone Metastasis: Experimental and Clinical Aspects.* Humana Press; 1 edition (2005)

Abstracts & Posters

1. Partlow, G.D., **Giles, E.D.**, Fisher, K.R.S. (2000) "A Method for studying the presence of oxytocin and vasopressin in the pig hypothalamus." *2000 Program & Proceedings of 43rd Annual Meeting of the CFBS.* F034. (Abstract & Poster)
2. **Giles, E.D.**, Crews, L., Betteridge, K. "Mechanism of Expansion in the Early Equine Conceptus." *Equine Practitioner's Annual Meeting* (2000) (Poster)
3. **Giles, E.D.**, Hirte, H., Singh, G. (2002) "Effect of the bone microenvironment on gene expression in breast carcinoma (MDA-MB-231) cells." *2002 Proceedings of the AACR* (Abstract & Poster)
4. **Giles, E.D.** and Singh, G. "The role of IGFBP-3 in the metastasis of breast cancer to bone." *2003 Gordon Research Conference on Insulin-like Growth Factors in Physiology & Disease.* (Poster)
5. Jackman, M.R., Steig, A., **Giles, E.D.**, Stob, N., Johnson, G.C., Fleming-Elder, B.K., Lindstrom, R., Higgins, J., Erickson, C., Eckel, R.H., MacLean, P.S. "Dietary fat is trafficked to small adipocytes during weight regain." *2008 Annual Scientific Meeting of The Obesity Society*, Phoenix AZ, October 2008.
6. Jackman, M.R., Steig, A., **Giles, E.D.**, Stob, N., Johnson, G.C., Fleming-Elder, B.K., Lindstrom, R., Higgins, J., Erickson, C., Eckel, R.H., MacLean, P.S. "Dietary fat is trafficked to small adipocytes during weight regain." *2008 Annual Scientific Meeting of The Obesity Society*, Phoenix AZ, October 2008.
7. MacLean, P.S., **Giles, E.D.**, Johnson, G.C., McDaniel, S.M., Fleming-Elder, B.K., Gilman, K.A., Andrianakos, A.G., Jackman, M.R., Shroyer, K.G., and Schedin, P.J. "A surprising link between the energetics of weight gain and mammary tumor progression in a model of postmenopausal obesity." *2008 Annual Scientific Meeting of The Obesity Society*, Phoenix AZ, October 2008.

8. **Giles, E.D.**, Johnson, G.C., McDaniel, S.M., Fleming-Elder, B.K., Gilman, K.A., Andrianakos, A.G., Jackman, M.R., Shroyer, K.G., Schedin, P.J., and MacLean, P.S. "Cytokine profiling of Lean and Obese rats in a model of postmenopausal breast cancer." *2008 Annual Scientific Meeting of The Obesity Society*, Phoenix AZ, October 2008.
9. Higgins, J.A., **Giles, E.D.**, Jackman, M.R., Steig, A.J., Johnson, G.C., Fleming-Elder, B.K., Brown, I., MacLean, P.S. "Resistant starch promotes preferential fat oxidation in rats following weight loss." *Pre-Diabetes 2009*, Nice, France, April 2009.
10. E.D. Giles, A.J. Steig, M.R. Jackman, G.C. Johnson, J.A. Higgins, J.O. Hill, R.H. Eckel, and P.S. MacLean. "Effects of exercise on LPL expression after weight loss and during weight regain." *International Biochemistry of Exercise Conference*, Guelph ON Canada, June 2009.
11. E.D. Giles, A.J. Steig, M.R. Jackman, G.C. Johnson, J.A. Higgins, N.R. Stob, R.C. Lindstrom, J.O. Hill, R.H. Eckel, and P.S. MacLean. "Regular exercise induces tissue-specific expression of metabolic-related transcription factors during the relapse to obesity." *Accepted for the Kern Aspen Lipid Conference*, Aspen CO, August 2009.

C. RESEARCH SUPPORT

Ongoing support

Thorkildsen Research Fellowship, PI- Erin Giles, 4/01/09-3/31/10
UC Denver

Metabolic Inflexibility: A potential link between obesity and post-menopausal breast cancer.

This goal of this project is to study how utilization of ingested fuels alters tumor survival and growth in a model of postmenopausal breast cancer.

American Institute for Cancer Research Post Doctoral Award, PI – Erin Giles, 1/1/10 – 12/31/10

Metabolic Inflexibility: A potential link between obesity and post-menopausal breast cancer.

The goal of this project is to study the impact of obesity, specifically weight gain during menopause, on the progression of breast tumours.