

OB/GYN Research Publications, Research Grants and Awards 2008 and 2009

Publications

Dr. Andy Babwah

- 1 Pampillo M, Camuso N, Taylor JE, Szereszewski JM, Ahow M, Zajac M, Millar RP, Bhattacharya M, **Babwah AV** (2009). Molecular regulation of GPR54 activity by GRK-2 and β -arrestins. *Molecular Endocrinology* doi:10.1210/me.2009-0013.
- 2 Ferreira LT, Dale LB, **Babwah AV**, Ferguson SSG (2009). Calcineurin inhibitor protein (CAIN) attenuates Group I metabotropic glutamate receptor endocytosis and signaling. *Journal of Biological Chemistry* 284:28986-94.
- 3 Cavanagh PC, Dunk C, Pampillo M, Szereszewski JM, Taylor JE, Kahiri C, Han V, Lye S, Bhattacharya M, **Babwah AV** (2009). GnRH-Regulated Chemokine Expression in the Human Placenta. *American Journal of Physiology Cell Physiology* 297:C17-27.
- 4 Li T, Alemayehu M, Aziziyeh IA, Pape MC, Pampillo M, Mills GB, **Babwah AV**, Bhattacharya M (2009). β -arrestins and RalGTPases regulate lysophosphatidic acid mediated breast cancer cell migration and invasion. *Molecular Cancer Research* 7:1064-77.
- 5 Aziziyeh IA, Alemayehu M, Li T, Pape MC, Pampillo M, Possmayer F, **Babwah AV**, Bhattacharya M. Dual regulation of lysophosphatidic acid (LPA₁) receptor signalling by Ral and GRK. *Cell Signalling* 21:1207-17.
- 6 Li Y, Arnold M, Pampillo M, **Babwah AV**, Peng T (2009). Taurine prevents cardiomyocyte death by inhibiting NADPH oxidase-mediated calpain activation. *Free Radical Biology & Medicine* 46:51-61.
- 7 Iacob D, Cai J, Tsonis M, **Babwah A**, Chakraborty C, Bhattacharjee RN and Lala, PK (2008). Decorin-mediated inhibition of proliferation and migration of the human trophoblast via different tyrosine kinase receptors. *Endocrinology* 149:6187-97.

Dr. Monique A. Bertrand

- 1 Fung-Kee-Fung M, Howlett R, Oliver T, Murphy J, Elit L, Strychowsky J, Roth N, Bryson P, McLachlin M, **Bertrand M**, et al. Cancer Care Ontario Evidence-based Series on Colposcopy "The Optimum Organization for the Delivery of Colposcopy Service in Ontario", Guideline Recommendations, Evidentiary Base, EBS Development Methods and External Review Process. Report date February 14, 2008.

Dr. Barbra de Vrijer

- 1 Vilos, A.G., Vilos, G.A., **de Vrijer**, B, Kozak, R. and Abu-Rafea, B. Fertility and pregnancy outcomes following uterine artery embolization (UAE) for uterine arteriovenous malformation: a case report and review of the literature. Accepted for publication Journal of Minimally Invasive Gynecology, May 2009

Dr. Fraser Fellows

- 1 M. Al-Masri, M. Krishnamurthy, J. Li, F. Fellows, C.G. Goodyer, R. Wang (2009) Role of FOXO1 in regulating beta-cell differentiation during human fetal pancreatic development Diabetologia, in revision
- 2 S. Saleem, J. Li, S.P. Yee, F. Fellows, C.G. Goodyer, R. Wang (2009) β 1 integrin/FAK stimulated MAPK/ERK pathway regulates human fetal islet cell development and survival. J Pathol. 2009 Jun 18. [Epub ahead of print]
- 3 B. Lyttle, J. Li, M. Krishnamurthy, F. Fellows, M.B. Wheeler, C.G. Goodyer, R. Wang (2008) Transcription factor expression in the developing human fetal endocrine pancreas. Diabetologia, 51: 1169-1180

Dr. Valter Feyles

- 1 J McNaught, F Tekpetey, J Hollett-Caines, S Power, L Hughes, **V Feyles**. 2009. Strictly Timed In Vivo Maturation Improves Clinical Pregnancy Rate in IVF/ICSI. (J. McNaught presenter). Presented at the UWO-OB-GYN- The Paul Harding Research Awards Day 2009 - Wednesday May 13, 2009 and accepted for the CAFS - AGM 2009 as: Strictly Timed In Vivo Maturation Improves Clinical Pregnancy Rate in IVF/ICSI.
- 2 **Feyles V**, Gianetto-Berruti A. Fertility preservation strategies in female cancer patients. 2008 . Minerva Psichiatrica. 49 (1):71-79.
- 3 Gianetto-Berruti A, **Feyles V**. 2008. Effects of Non-Steroidal Anti-Inflammatory Drugs (NSAIDS) on Endometriosis in mice. Abstract #TP13, presented at the 54th Annual Meeting, Canadian Fertility and Andrology Society (CFAS), Calgary, November 2008.

Dr. Robert Gagnon

- 1 Farine D, Mundle WR, Dodd J, Basso M, Delisle MF, Farine D, Grabowska K, Hudon L, Menticoglou SM, Murphy-Kaulbeck LC, Ouellet A, Pressey T, Roggensack A, **Gagnon R**. The use of progesterone for prevention of preterm birth. J Obstet Gynaecol Can 30(1):67-71, 2008.

Dr. Rob Gratton

- 1 Mottola MF, Giroux I, **Gratton RJ**, Hammond J, Hanley A, Harris S, McManus R, Davenport M, Sopper MM. Nutrition and exercise prevents excessive pregnancy weight gain in pregnant overweight women. Accepted to Medicine & Science in Sports & Exercise (MSSE) 2009.
- 2 Zelenietz C, Calangelo K, Chattha I, **Gratton RJ**. Amniocentesis: safety, reliability and alternatives. UWOMJ 2009;78:79-82.
- 3 Davenport M, Mottola MF, McManus R, **Gratton RJ**. A walking intervention improves capillary glucose control in women with gestational diabetes mellitus. Appl Physiol Nutr Metab 2008;33:511-517.

Dr. Dan Hardy

- 1 **Hardy DB**, Janowski BA, Chien CC, and CR Mendelson. Progesterone Receptor (PR) Inhibits Aromatase and Inflammatory Response Pathways in the Breast via Ligand-Dependent and Ligand-Independent Mechanisms. Molecular Endocrinology 22(8): 1812-1824 2008.
- 2 Schwartz JC, Younger ST, Nguyen N, **Hardy DB**, Monia BP, Corey DR, and Janowski BA. Antisense transcripts are targets for activating small RNAs. Nature Structural & Molecular Biology 15(8): 842-848 2008.
- 3 Bukulmez O, **Hardy DB**, Carr BR, Auchus RJ, Toloubeydokhti T, Word RA, and CR Mendelson. Androstenedione, via Local Conversion to Estrogen, Plays a Positive Feedback Role in Upregulation of Aromatase Expression in Human Endometrium. Journal of Clinical Endocrinology and Metabolism 93(9): 3471-3477 2008.
- 4 Bukulmez O, **Hardy DB**, Carr BR, Word RA, and CR Mendelson. Inflammatory Status Influences Aromatase and Steroid Receptor Expression in Endometriosis. Endocrinology 149(3): 1190-1204 2008.

Dr. Mellissa Mann

- 1 Weaver, JR, Sarkisian, G, Krapp, C, Mager, J, **Mann, MRW**, and Bartolomei, MS, 2009, Domain-specific response of imprinted genes to reduced DNMT1, Molecular and Cellular Biology, submitted.
- 2 Golding, MC, Zhang, L, and **Mann, MRW**, 2009, Multiple epigenetic modifiers induce aggressive viral extinction in extraembryonic endoderm, Developmental Cell, in revision.

- 3 Kernohan, KD, Jiang, Y, Tremblay, DC, Bonvissuto, AC, **Mann, MRW**, and Bérubé, NG, 2009, ATRX links imprinted gene expression in the brain to human disorders of chromatin architecture, *Developmental Cell*, in revision.
- 4 Market-Velker, BA, Zhang, L, Magri, LS, Bonvissuto, AC, and **Mann, MRW**, 2009, Dual Effects of Superovulation: Loss of maternal and paternal imprinted methylation in a dose-dependent manner, *Human Molecular Genetics*, in press.
- 5 Cirio, MC, Martel, J, **Mann, M**, Toppings, M, Bartolomei, M, Trasler, J, and Chaillet, JR, 2008, DNA methyltransferase 1o functions at a critical time during development to preclude a profound level of epigenetic variation, *Developmental Biology* 324:139-150.

Dr. Renato Natale

- 1 Caitlin D, daSilva O, Schmidt G, **Natale R**. Outcomes of elective labour induction and elective caesarean section in low-risk pregnancies between 37 and 41 weeks gestation. *J Obstet Gynaecol Can* 2009;31(12):1124-1130.

Dr. Jeff Nisker

BOOKS:

- 1 **Nisker J.**, Baylis F., Karpin I., McLeod C., and Mykitiuk R. (Eds). *The "Healthy" Embryo: Social, Biomedical, Legal and Philosophical Perspectives*. Cambridge University Press. (In press).
- 2 **Nisker J** (Ed.) *From the Other Side of the Fence: Stories from Health Care Professionals*. Halifax. Pottersfield Press, 2008.

BOOK CHAPTERS:

- 1 Mykitiuk R and **Nisker J**. Social Determinants Of "Health" Of Embryos. In: **Nisker J.**, Baylis F., Karpin I., McLeod C., and Mykitiuk R. (Eds). *The "Healthy" Embryo: Social, Biomedical, Legal and Philosophical Perspectives*. Cambridge University Press. (In press).
- 2 Mykitiuk R, Van Wagner E, **Nisker J**. The "Affected" Post-PGD Embryo. In: B. Bennett, T Cartey and I Karpin (eds.). *Contemporary Perspectives on Health Law and Policy*. Sydney Australia: Federation Press (In press 2009).
- 3 **Nisker J**. Chalcedonies. In: **Nisker J**. (Ed.) *From the Other Side of the Fence: Stories from Health Care Professionals*. Halifax. Pottersfield Press, 2008, p. 172-176.
- 4 **Nisker J**. Preface. In **Nisker J**. (Ed.) *From the Other Side of the Fence: Stories from Health Care Professionals*. Halifax. Pottersfield Press, 2008, p. 11-15.

- 5 **Nisker J.** Health-policy research and the possibilities of theatre. In: Knowles JG, Cole AL. Handbook of the Arts in Qualitative Research: Perspectives, Methodologies, Examples, and Issues. Thousand Oaks, CA: Sage Publications, 2008.
- 6 Sinding C, Gray R, **Nisker J.** Ethical Issues and Issues of Ethics. In: Knowles JG, Cole AL. Handbook of the Arts in Qualitative Research: Perspectives, methodologies, examples, and issues. Thousand Oaks, CA: Sage Publications, 2008.
- 7 Mykitiuk R, **Nisker J.** Assisted Reproduction. In: Peter A. Singer and A.M. Viens (eds.), Cambridge Textbook of Bioethics. Cambridge University Press, 2008.

FEDERAL REPORTS:

- 1 **Nisker J** and Speechley KN. Preimplantation Genetic Diagnosis and Related Activities in Canada. Prepared for Assisted Human Reproduction Canada. May 2009

PUBLICATIONS IN PEER-REVIEWED JOURNALS:

- 1 **Nisker J.** Socially-based discrimination against clinically-appropriate care. CMAJ. 2009 Nov. 10 [Epub ahead of print]
- 2 Kelly E, **Nisker J.** Increasing bioethics education in preclinical medical curricula may predispose students to experience ethical dilemmas in clinical clerkships. Academic Medicine, 2009;84(4):498-504.
- 3 Martin DK, Greenwood HL, **Nisker J.** Public Perceptions of Ethical Issues Regarding Adult Predictive Genetic Testing. Health Care Analysis. 2009
- 4 Cox S, Kazubowski-Houston M, **Nisker J.** Genetics on Stage: Public Engagement in Health Policy Development on Preimplantation Genetic Diagnosis. Social Science & Medicine 2009;68(8):1472-80.
- 5 Jutzi L, Vogt KN, Drever E, **Nisker JA.** Recruiting Medical Students to Rural Communities: Perspectives of Medical Students and Rural Recruiters. Can J Fam Practice 2009 Jan;55(1):72-3.
- 6 Pioro M, Mykitiuk R, **Nisker J.** Wrongful Birth Litigation and Prenatal Screening. CMAJ. 2008;179(10):1027-30
- 7 Nelson, E., Mykitiuk, R., & **Nisker, J.** [Letter]. Response to: Informed Consent to Donate Embryos for Research Purposes. JOGC. 2009;111-112
- 8 Nelson E, Mykitiuk R, **Nisker J,** Christilaw J, Corey JA, Heaman M, Lippman A, Rodgers S, Shapiro J, Sherwin S. Informed consent to donate embryos for research purposes. J Obstet Gynaecol Can. 2008;30(9):824-9.

- 9 Van Wagner E., Mykitiuk R, **Nisker J**. Constructing 'health', defining 'choice': Legal and policy perspectives on the post-PGD embryo in four jurisdictions. *Medical Law International*. 2008;9:45–92
- 10 **Nisker J**. Distributive Justice and Infertility Treatment in Canada. *J Obstet Gynaecol Can* 2008;30(5):425–431.

Dr. Debbie Penava

- 1 **Penava D**. (2009) Infertility – From a Doctor Who Became a Patient. Published as an online document: <http://www.myobclinic.ca/penava>
- 2 Sharma V, **Penava D**. Screening for bipolar disorder during pregnancy and the postpartum period. Accepted for publication *JOCC*, Aug 31, 2009.
- 3 Dontigny L, Arsenault MY, Martel MJ, Biringer A, Cormier J, Delaney M, Gleason T, Leduc D, Martel MJ, **Penava D**, Polsky J, Roggensack A, Rowntree C, Wilson AK; Society of Obstetricians and Gynecologists of Canada (2008) Rubella in pregnancy. *J Obstet Gynaecol Can* 30(2):152-168

Dr. Fred Possmayer

- 1 Pace PW, Yao LJ, Wilson JX, **Possmayer F**, Veldhuizen RA, and Lewis JF. The effects of hyperoxia exposure on lung function and pulmonary surfactant in a rat model of acute lung injury. *Exp Lung Res* 35: 380-398, 2009.
- 2 Aziziyeh AI, Li TT, Pape C, Pampillo M, Babwah AV, Chidiac P, **Possmayer F**, and Bhattacharya M. Dual regulation of lysophosphatidic acid (LPA1) receptor signalling by Ral and GRK. *Cellular signalling* 21: 1207-1217, 2009.
- 3 Zuo YY, Veldhuizen RA, Neumann AW, Petersen NO, and **Possmayer F**. Current perspectives in pulmonary surfactant--inhibition, enhancement and evaluation. *Biochim Biophys Acta* 1778: 1947-1977, 2008.
- 4 Zuo YY, Tadayyon SM, Keating E, Zhao L, Veldhuizen RA, Petersen NO, Amrein MW, and **Possmayer F**. Atomic force microscopy studies of functional and dysfunctional pulmonary surfactant films, II: albumin-inhibited pulmonary surfactant films and the effect of SP-A. *Biophys J* 95: 2779-2791, 2008.
- 5 Bakshi MS, **Possmayer F**, and Petersen NO. Aqueous-phase room-temperature synthesis of gold nanoribbons: Soft template effect of a gemini surfactant. *Journal of Physical Chemistry C* 112: 8259-8265, 2008.

- 6 Panupinthu N, Rogers JT, Zhao L, Solano-Flores LP, **Possmayer F**, Sims SM, and Dixon SJ. P2X7 receptors on osteoblasts couple to production of lysophosphatidic acid: a signaling axis promoting osteogenesis. *The Journal of cell biology* 181: 859-871, 2008.
- 7 Maruscak AA, Vockeroth DW, Girardi B, Sheikh T, **Possmayer F**, Lewis JF, and Veldhuizen RA. Alterations to surfactant precede physiological deterioration during high tidal volume ventilation. *Am J Physiol Lung Cell Mol Physiol* 294: L974-983, 2008.
- 8 Bakshi MS, Kaur G, **Possmayer F**, and Petersen NO. Shape-controlled synthesis of poly(styrene sulfonate) and poly(vinyl pyrrolidone) capped lead sulfide nanocubes, bars, and threads. *Journal of Physical Chemistry C* 112: 4948-4953, 2008.
- 9 Zuo YY, Keating E, Zhao L, Tadayyon SM, Veldhuizen RA, Petersen NO, and **Possmayer F**. Atomic force microscopy studies of functional and dysfunctional pulmonary surfactant films. I. Micro- and nanostructures of functional pulmonary surfactant films and the effect of SP-A. *Biophys J* 94: 3549-3564, 2008.
- 10 MacFabe DF, Rodriguez Capote K, Hoffman JE, Franklin AE, Mohammad-Asef Y, Taylor AR, Boon F, Cain DP, Kavaliers M, **Possmayer F**, and Ossenkopp K-P. A novel rodent model of autism: Intraventricular infusions of propionic acid increase locomotor activity and induce neuroinflammation and oxidative stress in discrete regions of adult rat brain. *American Journal of Biochemistry and Biotechnology* 4: 146-166, 2008.
- 11 Liu S, Zhao L, Manzanares D, Doherty-Kirby A, Zhang C, **Possmayer F**, and Lajoie GA. Characterization of bovine surfactant proteins B and C by electrospray ionization mass spectrometry. *Rapid Commun Mass Spectrom* 22: 197-203, 2008.
- 12 Bakshi MS, Zhao L, Smith R, **Possmayer F**, and Petersen NO. Metal nanoparticle pollutants interfere with pulmonary surfactant function in vitro. *Biophys J* 94: 855-868, 2008.

Dr. Tim Regnault

- 1 Rhodes J, **Regnault TRH** and Anthony, RV. vAngiogenesis, Chapter 9. In: *Fetal and Neonatal Physiology*, 4th Edition Eds RA Polin, WW Fox and S Abmanvv 2009.
- 2 Thorn SR, **Regnault TRH**, Brown LD, Rozance PJ, Keng J, Roper M, Wilkening RB, Hay WW Jr and Friedman JE. Intrauterine growth restriction increases fetal hepatic gluconeogenic capacity and reduces mRNA translation initiation and nutrient sensing in fetal liver and skeletal muscle. *Accepted Endocrinology*, March 2009.
- 3 Wright CD, Orbus RJ, **Regnault TRH** and Anthony RV. Effects of early gestation growth hormone administration on placental and fetal development in sheep. *Journal of Endocrinology* 198(1):91-9 2008.

- 4 Rozance PJ, Limesand SW, Barry JS, Brown LD, LoTurco D, **Regnault TRH**, Friedman JE and Hay WW Jr. Chronic late gestation hypoglycemia in fetal sheep reversibly increases PEPCK and Glucose-6-phosphatase but does not deplete hepatic glycogen. *American Journal of Physiology; Endocrinology and Metabolism* 294(2):E365-70 2008.
- 5 Hay WW Jr and **Regnault TRH**. vFetal requirements and placental transfer of nitrogenous compounds, Chapter 52. In: *Fetal and Neonatal Physiology*, 4th Edition Eds RA Polin, WW Fox and S Abman 2008.
- 6 Brown L, **Regnault TRH**, Rozance P, Barry J, and Hay WW Jr. Maternal-fetal nutrition during pregnancy and lactation Chapter 4. In: *Pregnancy and Fetal Growth: Macronutrients*, 1st Edition Eds M Symonds and E Ramsay 2008.

Dr. Bryan Richardson

- 1 Prout AP, Frasch MG, Veldhuizen RAW, Hammond R, Ross MG, **Richardson BS**. Systemic and cerebral inflammatory response to umbilical cord occlusions with worsening acidosis in the ovine fetus. In Press *AJOG* 2009.
- 2 Rao N, Keen A, Czikk M, Frasch M, **Richardson BS**. Behavioural state linkage in the ovine fetus near term. *Brain Res* 1250:149-156, 2009.
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- 7 Dy J, Guan H, Sampath-Kumar R, **Richardson BS**, Yang K. Placental 11 β -hydroxysteroid dehydrogenase type 2 is reduced in pregnancies complicated with idiopathic intrauterine growth restriction: evidence that this is associated with an attenuated ratio of cortisone to cortisol in the umbilical artery. *Placenta* 29(2):193-200, 2008.
- 8 McCallum J, Smith N, MacLachlan J, Coksaygan T, Schwab M, Nathanielsz P, **Richardson B**. Effects of antenatal glucocorticoids on cerebral protein synthesis in the preterm ovine fetus. *Am J Obstet Gynecol* 198:103.e1-103.e6, 2008.

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Book Chapter:

- 1 **Richardson B.S.**, and Gagnon R. Behavioural state activity and fetal health & development. In: *Maternal-Fetal Medicine: 6th Edition*, eds. Creasy R.K. and Resnik R., WB Saunders Co. Philadelphia, Chapter 13, p171, 2008.

Dr. Trevor Shepherd

- 1 **Trevor G. Shepherd**, Michelle L. Mujoomdar and Mark W. Nachtigal. (2009) Constitutively-active bone morphogenetic protein receptor signalling reduces ovarian cancer cell adhesion and intraperitoneal tumour formation in nude mice. Manuscript in revision for *Journal of Ovarian Research*.
- 2 Natasza A. Kurpios, Lesley MacNeil, **Trevor G. Shepherd**, David G. Gludish, Andrew O. Giacomelli and John A. Hassell (2009) The Pea3 Ets transcription factor regulates differentiation of multipotent progenitor cells during mammary gland development. *Developmental Biology* 325:106-21.
- 3 **Trevor G. Shepherd**, Brigitte L. Theriault and Mark W. Nachtigal (2008) Autocrine BMP4 signalling regulates ID3 proto-oncogene expression in human ovarian cancer cells. *Gene* 414: 95-105.

Dr. George Vilos

- 1 Poliquin V, Victory R, **Vilos GA**. Epidemiology, presentation and management of retroperitoneal leiomyomata: systematic literature review and case report. *J Min Invas Gynecol* 2008; 15:152-160.
- 2 **Vilos GA**, Hollett-Caines J, Abu-Rafea B, Allen HH, Inculet R, Kirk ME. Leiomyosarcoma diagnosed six years after laparoscopic electromyolysis. *J Obstet Gynecol Can* 2008; 30(6): 500-4.
- 3 **Vilos GA**, Vilos AG, Abu-Rafea B, Hollett-Caines J, Nikkhah Abyaneh Z, Edris F. Three simple steps during closed laparoscopic entry may minimize major injuries. *Surgical Endoscopy* 2009; 23: 758-64 (2008. DOI 10 1007/S00464-08-0060-4).
- 4 **Vilos GA**, Urina R, Chang P, Kozak R. Femoral artery puncture site pseudoaneurysm formation following uterine artery embolization for symptomatic fibroids: a case report. *J Obstet Gynecol Can* 2009; 31(3): 263-6.

- 5 **Vilos GA**, Edris F, Abu-Rafea B, Hollett-Caines J, Ettler HC, Al-Mubarak A. Miscellaneous uterine malignancies encountered during hysteroscopic surgery. *J Min Invas Gynecol* 2009; 16: 318-25.
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Dr. Andrew J. Watson

- 1 Bell, C.E., **Watson, A.J.** 2009. SNAI1 and SNAI2 are asymmetrically expressed at the 2-cell stage and become segregated to the TE in the mouse blastocyst. *PLOS one* In Press.
- 2 Mottershead, D.G., **Watson, A.J.** 2009. Oocyte peptides as paracrine tools for ovarian stimulation and oocyte maturation. In Press *Mol Hum Reprod*.
- 3 Bell, C.E. Lariviere, N., Watson, P.H., **Watson A.J.** 2009. Mitogen Activated Protein Kinase (MAPK) Pathways mediate embryonic responses to culture medium osmolarity by regulating Aquaporin 3 and 9 expression and localization and embryo apoptosis. *Human Reprod* 24.1373-1386.
- 4 Bell, C.E., Calder, M.D., **Watson, A.J.** 2009. Genomic RNA Profiling and the Program Controlling Preimplantation Mammalian Development. *Mol Human Reprod*. 14:691-701.
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- 6 Calder, M.D., Madan P, & **Watson, A.J.** 2008. Detection of Staufen and ELAVL RNA binding proteins in cow oocytes and preimplantation embryos, *Zygote* 16:161-168.

Dr. Bin Xie

- 1 Zaric G, **Xie B** (2009). The impact of two pharmaceutical risk sharing agreements on pricing, promotion, and net health benefits. *Value in Health* (2009 Mar 10 E-pub ahead of print).
- 2 Anderson LN, Campbell MK, daSilva O, Freeman T, **Xie B** (2008). Maternal Depression and Anxiety Were Not Found to Influence Infants' Health Services Utilization in a Southwest Ontario Cohort. *Can Fam Physician*; 54(12):1718-1719.e5.

Dr. Kaiping Yang

- 1 Sharma A, Guan H & **Yang K**. The 11 β -hydroxysteroid dehydrogenase type 2 is regulated by p38 MAPK through a post-transcriptional mechanism in human trophoblast cell. *Am J Physiol Endocrinol Metab*, in revision 2009.
- 2 **Yang K**, Guan H, Arany E, Hill DJ & Cao X. Neuropeptide Y is produced in visceral adipose tissue and promotes proliferation of adipocyte precursor cells via the Y1 receptor. *FASEB J* 22, 2452-2464 2008.
- 3 Balachandran A, Guan H, Sellan M, van Uum S & **Yang K**. Insulin and glucocorticoid dynamically regulate adipocyte 11 β -hydroxysteroid dehydrogenase type 1. *Endocrinology* 149:4069-4070 2008.
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Research Funding OB/GYN Department 2008 and 2009

Dr. Andy Babwah

Systematic evaluation of assisted reproduction	Canada Foundation for Innovation Infrastructure Operating Funds	PI	\$61,679.00	2006/04	2011/03
Molecular and Functional Analysis of Nuclear Membrane Localized GnRH-RI	Natural Sciences and Engineering Research Council (Discovery)	PI	\$190,000.00	2006/04	2011/03
GnRH-RI activity during human placentation	Canadian Institutes of Health Research -Operating	PI	\$288,819.00	2006/04	2009/03
GnRH-regulated TFPI-2 expression in the human placenta	Obstetrics and Gynaecology-Academic Enrichment Fund	PI	\$11,919.00	2007	2008
GnRH-regulated TFPI-2 expression in the human placenta	Lawson Health Research Institute- Internal Research Fund	PI	\$15,000.00	2008/04	2010/07

Dr. Monique A. Bertrand

Investigating the functional implications of ID1/and ID3 overexpression in human ovarian cancer pathogenesis	Cancer Research Society	Co-PI	\$120,000.00	2007	2009
Implications of activated BMP signalling and ID1/ID3 function in ovarian cancer pathogenesis	Canadian Institutes of Health Research	Co-PI	\$100,000.00	2009	2010
Implications of activated BMP signalling and ID1/ID3 function in ovarian cancer pathogenesis	Canadian Cancer Society Research Institute (formerly NCIC)	Co-PI	\$380,848.00	2009	2012

Dr. Queena Chou

Factors Influencing Patients' Decision making in Women Undergoing Surgical Management of Pelvic Floor Dysfunction	Schulich Research Opportunities Program	PI		2007/08	Present
Total vaginal mesh (Prolift) versus Sacrospinous vaginal vault suspension (SSPS) for the treatment of post-hysterectomy vaginal vault prolapse	Obstetrics and Gynecology Academic Enrichment Fund	PI	\$5,400	2008	

Dr. Barbara de Vrijer

Strategic Initiative in Research in Reproductive Health Sciences (STIRRHS)	Canadian Institutes of Health Research (CIHR) – APOG Clinician Matching funding	PI	\$60,000.00	2006	2008
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Vitamin D and cytokine levels in women with and without gestational diabetes.	The Physicians' Services Incorporated Foundation	Co-PI	\$65,000.00	2008	2010
Acute Atrial and Ventricular Epicardial and Endocardial Pacing of the Fetal Lamb	Heart Centre Innovations Funding	Co-PI	\$25,000.00	2009	

Dr. Fraser Fellows

	GAP Competition, Schulich School of Medicine and Dentistry	Co-PI	\$0.00	2008	2009
	CDA Grant-in-Aid	Co-PI	\$0.00	2008	2011
	CIHR Operating Grant	Co-PI	\$0.00	2008	2011
	China-CIHR Joint Health Research Initiative	Co-PI	\$0.00	2009	APPLIED

Dr. Valter Feyles

Patient education in infertility	Ferring Pharmaceuticals	PI	\$30,000.00	2008	2009
Patient education in endometriosis and infertility	Schering-Plough (former Organon)	PI	\$14,000.00	2008	
Patient education in endometriosis and infertility	Paladin Labs Inc		\$2,000.00	2008	
New technologies for Ginseng Agriculture and Product Development	Ontario Research Fund (ORF)	Co-PI	\$70,000.00	2008	

Dr. Robert Gagnon

Strategic training initiative for research in reproductive health sciences (STIRRHS).	William Fraser	CIHR	Co-PI	\$300,000.00	2002	2008
Molecular mechanisms of fetal growth restriction.	Kaiping Yang	CIHR	Co-PI	\$147,342.00	2005	2010
Fetal growth restriction: mechanisms and outcomes.	Victor Han	CIHR – RFA	Co-PI	\$267,163.00	2005	2010
The influence of gender on differential immunity responses of placenta and fetus.	Barb de Vrijer	CIHR – STIRRHS	Co-PI	\$60,000.00	2006	2008
Intracervical single balloon (foley catheter) versus double balloon for cervical ripening prior to induction of labour.		Academic Enrichment Fund	PI	\$1,500.00	2008	2008

Fetal physiology, fetal brain development, ante and intrapartum fetal health monitoring.	Martin Frasch	CIHR - STIRRHS	Co-PI	\$20,000.00	2008	2010
Fetal physiology, fetal brain development, ante and intrapartum fetal health monitoring.	Martin Frasch	Dept Ob/Gyn Matching Funds	Co-PI	\$17,000.00	2008	2010

Dr. Rob Gratton

Molecular mechanisms of preeclampsia	Canadian Institutes of Health Research	Co-In	\$909,875.00	2003	2008
International trial of antioxidant prophylaxis in pregnancy	Canadian Institutes of Health Research	Co-In	\$5,293,266.00	2003	2008
Value of quantitative MRI measures of white matter injury for predicting neurodevelopmental outcome of preterm infants	Canadian Institutes of Health Research	Co-In	\$205,932.00	2005	2008
Capacity-building and participatory research development of a community-based nutrition & exercise lifestyle intervention program (NELIP) for pregnant & postpartum Aboriginal women	Canadian Institutes of Health Research	Co-In	\$272,217.00	2006	2009

Dr. Dan Hardy

Measuring Changes in Nuclear Receptor Binding During Fetal and Neonatal Development Using ChIP	Natural Science and Engineering Council of Canada (NSERC)	PI	\$35,684.00	Applied	2008/11
The Role of Nuclear Receptors in Fetal Programming	University of Western Ontario	PI	\$15,000.00	2008/01	2008/08
The Role of Nuclear Receptors in Fetal Programming	Molly Towell Perinatal Foundation	PI	\$40,000.00	2008/03	2010/03
The Role of Nuclear Receptors in Fetal Programming	Natural Science and Engineering Research Council of Canada	PI	\$75,000.00	2008/04	2011/04
Role of Nuclear Receptors in Fetal Programming	University of Western Ontario	PI	\$8,466.00	2008/05	2009/05
The Role of Liver X Receptors (LXRs) in Fetal Programming	Lawson Health Research Institute (LHRI)	PI	\$11,000.00	2008/06	2009/06

Molecular Mechanisms for Fetal Programming in the Liver		Lawson Health Research Institute (LHRI)	PI	\$75,000.00	2008/06	2009/06
A laboratory for investigating the Role of Fetal Programming in Metabolic Syndrome	Tim Regnault	Canadian Foundation for Innovation (CFI)	Co-PI	\$720,000.00	2008/10	2009/10
The Molecular Mechanisms for Fetal Programming in the Liver		SickKids Foundation/CIHR(IHDCYH)	PI	\$130,000.00	2008/11	2010/11

Dr. Mellissa Mann

Molecular Mechanisms Regulating Genomic Imprinting		University of Western Ontario Start-Up Funds	PI	\$106,000.00	2005/01	2011/12
Fetal Growth Restriction: Mechanisms and Outcomes		Canadian Institutes of Health Research RFA	Co-PI	\$1,675,006.00	2005/11	2010/10
Genomic Imprinting in the Preimplantation Embryo		March of Dimes Birth Defects Foundation, Basil O'Connor Starter Scholar Award	PI	\$150,000.00	2006/02	2009/02
Systematic Evaluation of Assisted Reproduction		Canada Foundation for Innovation/MRI New Opportunities Fund	Co-PI	\$516,827.00	2006/03	2011/02
Susceptibility of Genomic Imprinting to Assisted Reproductive Technologies		SickKids Foundation/CIHR Institute of Human Development, Child and Youth Health Operating Grant for New Investigators	PI	\$129,540.00	2006/04	2008/03
		Canada Foundation for Innovation, Infrastructure Operating Fund	Co-PI	\$61,679.00	2006/04	2011/03
Identification and Evolutionary Comparison of Imprinting Centers		Natural Sciences and Engineering Research Council of Canada Discovery Grant	PI	\$186,500.00	2006/05	2011/04
Assisted Reproduction: Molecular and Developmental Effects of In Vitro Embryo Culture		Ministry of Research and Innovation, Early Researcher Award	PI	\$190,000.00	2006/09	2011/12
Molecular Analysis of Genomic Imprint Maintenance During Embryogenesis		Canadian Institutes of Health Research Operating Grant	PI	\$454,268.00	2006/10	2010/09
Functional Genomic Screen for Epigenetic Modifiers of Genomic Imprinting		Wighton/Perinatal Fund/Lawson Health Research Institute Internal Research Fund	PI	\$15,000.00	2007/06	2009/05

Characterization of the role of the Kcnq1ot1 non-coding RNA in imprinted gene regulation	University of Western Ontario, Department of Obstetrics and Gynecology, Academic Enrichment Fund	PI	\$7,500.00	2008/06	2009/05
The Role of Kcnq1ot1 noncoding RNA in Imprinted Gene Regulation	Lawson Health Research Institute Internal Research Fund	PI	\$15,000.00	2008/12	2010/11
Bioruptor/Sonicator and circulating waterbath Preserving Fertility in the female cancer patient: Establishment of a Oncofertility Team Program	London Regional Cancer Program Small Grants for Translational Cancer Research	Co-PI	\$19,545.00	2009/06	2010/05
CHRI Training Program in Reproduction, Early Development, and the Impact on Health (REDIH)	Women's Health Services Development Council Canadian Institutes of Health Research Strategic Training Initiative in Health Research	Co-PI	\$45,000.00		
		Co-PI	\$1,786,998.00	2009/04	2015/03

Dr. Renate Natale

Premature Rupture of Membranes at Term	The Physicians' Services Incorporated Foundation	Co-In	\$59,710.00	1991/10	present
	Government of Ontario Ministry of Health Transition Fund -Ontario Perinatal Surveillance System	Co-PI	\$1,200,000.00	2007	2008

Dr. Jeff Nisker

Ethical issues towards single embryo transfer in the human		CIHR Human Development, Child and Youth Health Institute	PI	\$3,350,000.00	2003/04	2010/03
Ethics, Education, and Research Unit		AMOSO	Project Leader	\$210,000.00	2006	2008
Ethical, Legal, and Societal Implications of Research into Monogenic-related Heart Disease and Monogenic-related Breast Cancer		Genome Canada	Project Leader	\$22,000,000.00	2006/01	2010/09

A qualitative analysis of the ethical decision-making process used by key informants in the resuscitation of extremely premature infants	Kevin Coughlin	CIHR	Co-PI	\$79,350.00	2007	2010
Faculty Scholar		The University of Western Ontario	PI	\$14,000.00	2008/04	2010/04
Physician billing costs attributable to genetic tests	Paul Adams, Mark Speechley	CIHR Operating Grant: Genetic (Ethics, Law and Society)	Co-PI	\$16,904.00	2008/08	2009/07

Dr Fred Possmayer

Lipid-lipid and lipid-protein interactions in pulmonary surfactant		Canadian Institutes of Health Research (CIHR)	PI	\$59,551.00		2008
Biophysical studies of functional and dysfunctional pulmonary surfactants	N. Petersen	CIHR	Co-In	\$67,500.00		2008

Dr. Tim Regnault

A laboratory for investigating the role of fetal programming in Metabolic Syndrome		Canada Foundation for innovation - Leaders Opportunity Fund	PI			2008/12
Oxygen sensor equipment		NSERC RTI – James Staples (Biology)	Co-Applicant			2008
Nanodrop and PCR equipment		NSERC RTI – Daniel Hardy	Co-Applicant			2008
The hypoxic induced cellular release of the amino acid osmolyte, taurine: Regulation and interaction with cellular hypoxia induced apoptosis in a fetal guinea pig model of growth restriction		University of Western Ontario – AEF	PI	2006/05		2008/04
The molecular mechanisms of hypoxic induced impaired amino acid transport in fetal growth restriction		Lawson Health Research Institute	PI	2007/01		2009/12

Increased skeletal muscle cationic amino acid transporter (CAT) mRNA concentration occurs under hypoxia, the result of posttranscriptional cleavage of nuclear retained CAT RNA		Children's Health Research Institute 2007 Internal Research Grant Fund	PI	2007/05	2008/04
The impact of dietary fatty acids on inflammation during pregnancy, lactation and fetal development Role	Karrow, PhD	NSERC – Partnership Agreement with agriculture and Agri-food Canada	Co-Applic	2007/10	2010/09
The effects of an endotoxin challenge upon fetal muscle lysine transport		NSERC – Discovery	PI	2008/07	2013/06

Dr. Bryan Richardson

Fetal brain development: Impact of acute and chronic hypoxia	Canadian Institutes of Health Research (CIHR)	PI	\$454,928.00	2004	2008
Fetal/neonatal health and development	Canada Research Chair (CRC), Tier 1	PI	\$1,400,000.00	2004	2011
Fetal growth restriction: mechanisms and outcomes	Canadian Institutes of Health Research (CIHR) - IHDCYH	Co-In	\$1,675,006.00	2006	2011
Fetal electrocortical monitoring for predicting fetal health during labour	University of Western Ontario - Western Innovative Fund	PI	\$12,000.00	2008	2008
Acute animal testing of prototype fetal heart rate (FHR)/EEG for early detection and prediction of fetal acidemia and associated health compromise during labour	Ministry of Research & Innovation (MRI) Ontario Research & Commercialization Program (ORCP) - POP	PI	\$36,999.00	2008	2008
Inflammation and cholinergic anti-inflammatory pathway in pre- and near-term fetal sheep	Lawson Health Research Institute (LHRI) - Internal Research Fund (IRF)	PI	\$3,295.00	2008	2008

Dr. Trevor Shepherd

Determining the function of ID1 and ID3 proto-oncogenes in ovarian cancer initiation	LHRI Internal Research Fund	PI	\$15,000.00		2008
Development of biological models for the translational ovarian cancer research initiative	LRCP Small Grants	PI	\$24,900.00		2008

Investigating the functional implications of ID1 and ID3 overexpression in human ovarian cancer pathogenesis	Cancer Research Society	PI	\$120,000.00	2007	2009
Development of a Conditional Transgenic Mouse Model to Test the Fallopian Tube Origin of Serous Ovarian Cancer	US CDMRP Ovarian Cancer Research Program Concept Award	PI	\$89,100.00	2008	2009
Implications of activated BMP signalling and Id1/3 function in ovarian cancer pathogenesis	Canadian Institutes of Health Research (Ovarian Cancer Bridge Funding)	PI	\$100,000.00	2009	
Implications of activated BMP signalling and Id1/3 function in ovarian cancer pathogenesis	Canadian Cancer Society Research Institute	PI	\$380,848	2009	2012
Myxoma virus mediated oncolysis as a novel therapeutic for epithelial ovarian cancer	LRCP Small Grants	PI	\$24,870.00	2009	2010
Investigating the HA-CD44-RHAMM axis as a putative marker for early detection of ovarian cancer	Ovarian Cancer Canada	Co-PI	\$29,820.00	2009	2010
Investigating the molecular and cellular basis of infertility and ovarian cancer using biologically-relevant model systems	Canadian Foundation for Innovation	Co-PI	\$751,808.00	Applied 2010	
Implications of activated BMP signalling and Id1/3 function in ovarian cancer pathogenesis	Canadian Institutes for Health Research New Investigator Award	PI	\$300,000.00	Applied 2010	2015

Dr Francis Tekpetey

Towards single embryo transfer in the human	T. Kennedy (UWO, Program Director)	Canadian Institutes of Health Research (CIHR)	Co-In	\$3,349,040.00	2003	2008
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Dr George Vilos

A Pivotal Study of Doppler Guided Uterine Artery Occlusion as Treatment for the Reduction of Fibroid Associated Bleeding	Ethicon Inc.	PI		2007/07	2011/04
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Dr. Andrew J. Watson

Funding for Equipment	Dept of Ob/GYN Academic Enrichment Fund	PI	\$5,463.00	1999	present
The Maternal Environment: Influence on Early Mammalian Development	NSERC-Discovery grant	PI	\$216,250.00	2005	2010
Trophectoderm differentiation and the blastocyst	MRC/CIHR -Operating Grant	PI	\$694,590.00	2007	2012

Dr. Kaiping Yang

Fetal Growth Restriction: Mechanisms & Outcomes	CIHR	Co-In	\$335,000.00	2005	2010
Molecular Mechanisms of Fetal Growth Restriction	CIHR-Operating Grant	PI	\$147,342.00	2006	2011
Early-life Origins of Visceral Adiposity	HSFO-Operating Grant	PI	\$85,000.00	2007	2009

Honours and Awards OB/GYN Department 2008 and 2009

2008

Babwah, Andy	New Investigator Award	\$300,000.00	Canadian Institutes of Health Research	2007/08	2012/07
Babwah, Andy	Whaley Postdoctoral Fellowship	\$36,000.00		2008	2009
Babwah, Andy	Ontario Graduate Scholarship	\$18,500.00		2008	2009
Babwah, Andy	Frederick Banting and Charles Best Canada Graduate Scholarship-Master's Award	\$18,500.00	CIHR (Institute: Cancer Research)	2008	2009
Babwah, Andy	Graduate Scholarship		Department of Obstetrics and Gynaecology	2008	2009
Babwah, Andy	Research Day-Second Place Award for Best Oral Presentation		Department of Obstetrics and Gynaecology		2008
Babwah, Andy	Graduate Student Stipend	\$18,500.00	CIHR Strategic Training Program in Cancer Research and Technology Transfer	2007	2008
Babwah, Andy	Graduate Scholarship	\$18,500.00	Department of Obstetrics and Gynaecology	2007	2008
Babwah, Andy	Whaley Postdoctoral Fellowship	\$36,000.00		2007	2008
Hardy, Dan	Best Abstract Award (G. Sohi, Trainee)		Developmental Origins of Health and Disease Symposium		2008
Mann, Mellissa	New Investigator Award, Molecular Analysis of Genomic Imprint Maintenance During Embryogenesis	\$250,000.00	Ontario Women's Health Council/CIHR Institute of Gender and Health	2006/07	2011/06
Penava, Debbie	"Best Curriculum on Earth", Faculty of Medicine Student Certificate of Appreciation for Year 1 Reproduction Teaching, 2007-2008		University of Western Ontario, Hippocratic Council (Doctor of Medicine Program)	2007	2008
Possmayer, Fred	Recognition of Lifetime Research Contributions		iCLIIP 2008 First International Conference on Lung Inate Immunology and Pulmonology		2008
Richardson, Bryan	Canada Research Chair, Tier 1		Medical Research Council of Canada	2004	2011
Watson, Andy	Deans' Award of Excellence- Individual				2008
Watson, Andy	Tamara Abraham Obstetrics and Gynaecology Department Graduate Scholarship			2007	2008

2009

Babwah, Andy	New Investigator Award	\$300,000.00	Canadian Institutes of Health Research	2007/08	2012/07
Babwah, Andy	Whaley Postdoctoral Fellowship	\$36,000.00		2008	2009
Babwah, Andy	Ontario Graduate Scholarship	\$18,500.00		2008	2009
Babwah, Andy	Frederick Banting and Charles Best Canada Graduate Scholarship-Master's Award	\$18,500.00	CIHR (Institute: Cancer Research)	2008	2009
Babwah, Andy	Graduate Scholarship		Department of Obstetrics and Gynaecology	2008	2009
Mann, Mellissa	New Investigator Award, Molecular Analysis of Genomic Imprint Maintenance During Embryogenesis	\$250,000.00	Ontario Women's Health Council/CIHR Institute of Gender and Health	2006/07	2011/06
Penava, Debbie	Teacher of the Year, Clerkship, Medicine Class of 2009		Department of Obstetrics & Gynaecology Awarded by UWO	2009	
Possmayer, Fred	Outstanding Contribution of Health Research		Canadian Institute of Health Research	2009/09	
Richardson, Bryan	Canada Research Chair, Tier 1		Medical Research Council of Canada	2004	2011