# The 44<sup>th</sup> Annual Southern Ontario Reproductive Biology Meeting





Friday, May 13th 2016 Queen's University Biosciences Complex, Atrium and Room 1101

Sponsored By
Department of Biomedical and Molecular Sciences
Department of Obstetrics and Gynaecology
Group for Research in Reproductive and Developmental Origins of Health,
Disability and Disease



## 44th Annual Southern Ontario Reproductive Biology Meeting

### Queen's University, Kingston ON

#### Biosciences Complex, Atrium and Room 1101

Friday, May 13th 2016

8:00-9:00am **Registration** 

Biosciences Atrium

9:00-9:10am **Welcome to SORB 2016** 

Biosciences, Room 1101

Anne Croy, DVM, Ph.D

Tier 1 Canada Research Chair in Reproduction, Development

and Sexual Function

Professor, Department of Biomedical and Molecular Sciences

Queen's University

9:10-9:40am **Keynote Speaker** 

Dr. Susan Ozanne

Professor of Developmental Endocrinology

Department of Clinical Biochemistry

University of Cambridge

Cambridge, UK

Programming by over-nutrition during pregnancy: a developing

obesity crisis

**Oral Session I:** Biosciences Room 1101

Chair: Dr. Barbara Vanderhyden, Ottawa Hospital Research Institute

9:45-10:00am Novel microRNAs (miRNA) as Biomarkers for Toxic Insult in the

Ovary. Furlong, HC.1, Gannon, AM.1, Stämpfli, MR.2, Foster, WG.1. 1Department of Obstetrics and Gynecology, McMaster University. 2Department of Pathology and Molecular Medicine, McMaster

University, Hamilton, Ontario, Canada, L8S 4K1.

10:00-10:15am

Recombinant Human Oviductin Binds to Human Sperm and Enhances Sperm Fertilizing Competence. Yuewen Zhao, Xiaojing Yang, Zongchao Jia, Robert L. Reid, Tamer M. Said, Alfonso P. Del Valle, Pierre Leclerc and Frederick W. K. Kan. Queen's University, Kingston, ON, Canada; The Toronto Institute for Reproductive Medicine, Toronto, ON, Canada; Laval University, Quebec City, QC, Canada.

10:15-10:30am

Characterization Of Hippo Signaling Pathway During Early Embryo Development In Bovine. <u>Iyoti Sharma</u>, Pavneesh Madan. Department of Biomedical Sciences, Ontario Veterinary College, University Of Guelph, Guelph, Ontario, Canada.

10:30-10:45am

Regulatory mechanisms controlling miRNA abundance in the oocyte: miR-21 expression throughout bovine in vitro oocyte maturation. Allison Tscherner, Graham Gilchrist and Jonathan LaMarre. Department of Biomedical Sciences, University of Guelph, Guelph, Canada.

10:45-11:15am

**Morning Coffee Break** 

Biosciences Atrium

Oral Session II: Biosciences Room 1101

Chair: Dr. Charles Graham, Queen's University

11:15-11:30am

Diethylhexyl phthalate increases deposition of 14C-bisphenol A in peripheral tissues of mice (Mus musculus). Evan D. Borman, Denys deCatanzaro. Psychology, Neuroscience & Behaviour, McMaster University, Hamilton, Canada.

11:30-11:45am

Endocrine disruption via enzyme exhaustion: Triclosan and tetrabromobisphenol A elevate estradiol and bisphenol A concentrations in mice. Tyler Pollock & Denys deCatanzaro. Department of Psychology, Neuroscience & Behaviour, McMaster University.

11:45am-12:00pm

Diet-induced maternal obesity alters the maternal gut microbiota and is associated with mid-gestation placental inflammation in a sex-dependent manner. Jessica G. Wallace1,3, Tatiane Ribiero2, Michael G. Surette5 and Deborah M. Sloboda1,3,4. 1Department of Biochemistry & Biomedical Sciences, McMaster University, Hamilton. 2Department of Cell Biology and Genetics, State University of Maringá, Brazil-Fellowship of CNPq Brazilian Research Agency. 3Departments of Obstetrics and Gynecology & Pediatrics, McMaster University, Hamilton. 4Farncombe Family Health Research Institute, McMaster Digestive University, 5Department of Medicine, McMaster Hamilton. University, Hamilton.

12:00-12:15pm

Maternal obesity influences placental immune regulation through TNF. Kennedy1, Ribeiro4, Gohir1, Wallace1, Naidoo5, Bowdish5, Sloboda1,2,3. 1 Department of Biochemistry & Biomedical Sciences, McMaster University, Hamilton. 2 Departments of Obstetrics and Gynecology & Pediatrics, McMaster University, Hamilton. 3 Farncombe Family Digestive Health Research Institute, McMaster University, Hamilton. 4 Department of Cell Biology and Genetics, State University of Maringá, Maringá/PR, Brazil-Fellowship of CNPq- Brazilian Research Agency. 5 Department of Pathology and Molecular Medicine, McMaster University, Hamilton, Canada.

12:15-1:30pm

#### Lunch and Poster Set-up

Biosciences Atrium

1:30-2:00pm

#### Dr. B Anne Croy

Tier 1 Canada Research Chair in Reproduction, Development and Sexual Function Professor, Department of Biomedical and Molecular Sciences Queen's University

Kingston, ON

Jim Raeside: Supporter of Career Development

**Oral Session III:** Biosciences Room 1101

Chair: Dr. Pavneesh Madan, University of Guelph

2:00-2:15pm

FGL2 is involved in the regulation of inflammatory response and leukocyte activation within the preeclamptic placenta. Charette P1,3, Cook DP1,3, 3 Bainbridge SA1 and Vanderhyden BC1-Department of Cellular and Molecular Medicine1 and Department of Obstetrics and Gynecology2, University of Ottawa; Centre for Cancer Therapeutics3, Ottawa Hospital Research Institute.

2:15-2:30pm

**Mouse Decidua.** Allison M. Felker and B. Anne Croy. Department of Biomedical and Molecular Sciences, Queen's University, Kingston, ON.

2:30-2:45pm

Characterization of hematopoiesis in mouse placenta: Temporal assessment and distribution profile of immature hematopoietic cells over mid-gestation. Nathalia A Portilho1,2 (Ph.D. Candidate), Priscila T Guedes2, Marcelo Pelajo-Machado2, B Anne Croy1. 1Department of Biomedical and Molecular Research, Queen's University and 2Laboratory of Pathology, Oswaldo Cruz Institute/Fiocruz.

2:45-3:00pm

A novel role of CXCL10 in the tumour immune microenvironment of high-grade serous ovarian cancer. Katrina Au (M Sc. 2016)1, Peter Truesdell2, Nichole Peterson3, Julie-Ann Francis3, Andrew Craig1,2, Madhuri Koti1,2,3. 1 Department of Biomedical & Molecular Sciences, Queen's University, Kingston, Canada. 2 Cancer Biology & Genetics, Queen's University, Kingston, Canada. 3 Department of Obstetrics and Gynaecology, Kingston General Hospital, Kingston, Canada.

3:00-3:15pm

RNA binding protein expression in a murine model of recurrent pregnancy associated loss. Kasra Khalaj1, Rayana Leal Luna2, Maria Eduarda Rocha de Franca2, Wilma Helena de Oliveira2, Christina Alves Peixoto2, and Chandrakant Tayade1 1 Department of Biomedical and Molecular Sciences, Queen's University, Kingston, Ontario, Canada, K7L 3N6. 2 Ultrastructure Laboratory, Aggeu Magalhães Research Center of the Oswaldo Cruz Foundation in Recife - FIOCRUZ, CEP 50670-420, Recife, PE, Brazil.

3:15-3:30pm

Evaluating the role of IL-33 in the pathogenesis of endometriosis Stephany P. Monsanto1, Jessica Miller1, SooHyun Ahn1, Steven L. Young3, Bruce A. Lessey 4, and Chandrakant Tayade 1,2. 1 Department of Biomedical and Molecular Sciences, Queen's University, Kingston, Ontario, Canada, K7L 3N6. 2 Department of Biomedical Sciences, Ontario Veterinary College, University of Guelph, Guelph, Ontario, Canada, N1G 2W1. 3 Department of Obstetrics and Gynecology, University of North Carolina, Chapel Hill, NC 27514, USA. 4 Department of Obstetrics and Gynecology, Greenville Health System, Greenville, South Carolina, United States, 29605.

3:30-5:00pm Afternoon Coffee Break and Poster Session

Biosciences Atrium

5:00-6:00pm Reception and Awards Presentations

Biosciences Atrium