

**LUNCH & POSTER SESSION 11:35-1:20**

OVC LLC Room 1707 B &amp; C

**Posters will be displayed all day; authors please attend your poster 12:00-1:00****POSTERS (\*study leader)****1) Investigating KIT and VEGF protein expression in canine prostate cancer**

Carlos E. Fonseca Alves, Priscilla E. Kobayashi, Renée Laufer-Amorim\*

*Department of Veterinary Clinic, University of São Paulo State - UNESP***2) Characterization of the TGF $\beta$ -TAZ Signalling Axis in Canine Osteosarcoma Cell Lines**Adam D. Andrade<sup>1</sup>, Pavel Neogi<sup>1</sup>, Tony Mutsaers<sup>1</sup>, Geoffrey Wood<sup>2</sup>, Alicia Vilorio-Petit<sup>1</sup>*Departments of <sup>1</sup>Biomedical Sciences and <sup>2</sup>Pathobiology, OVC, University of Guelph***3) Assessing the use of PI3-Kinase inhibitors to rescue TGF $\beta$  tumor suppressive function in advanced breast cancer**

Vritika Batura, Mathepan Mahendralingam, Geordon Avery-Cooper, Mahmoud

Yousseff, Alicia Vilorio-Petit\*

*Department of Biomedical Sciences, OVC, University of Guelph***4) Colorectal cancer cells rendered resistant to the topoisomerase inhibitor SN-38 display altered interactions with fibronectin**

Spencer I.T. Berg, Murray J. Cutler, Jonathan Blay\*

*School of Pharmacy, University of Waterloo***5) Prognostic Value of Vascular Endothelial Growth Factor Receptor 2 Expression by Neoplastic Canine Mast Cells**Lucas B. Da Silva<sup>1</sup>, Jennifer J. Thompson<sup>2</sup>, Geoffrey A. Wood<sup>2</sup>, Robert A. Foster<sup>2</sup>, Brenda L. Coomber<sup>1</sup>\**Departments of <sup>1</sup>Biomedical Sciences & <sup>2</sup>Pathobiology, OVC, University of Guelph***6) Low hexokinase II expression is associated with early disease progression and worse survival in human colorectal cancer**

Nelson Ho, Brenda L. Coomber\*

*Department of Biomedical Sciences, OVC, University of Guelph***7) Knockdown of the active glucose transporter SGLT2 in epithelial ovarian cancer (EOC) cells increases tumor size and aggression**

Lisa Kellenberger, Jim Petrik\*

*Department of Biomedical Sciences, OVC, University of Guelph*

**8) Plant- and marine-derived n-3 polyunsaturated fatty acids prevent mammary tumor development**

Jiajie Liu<sup>1\*</sup>, Salma A. Abdelmagid<sup>1</sup>, Lyn M. Hillyer<sup>1</sup>, William J. Muller<sup>2</sup>, David W.L. Ma<sup>1</sup>  
<sup>1</sup>Department of Human Health & Nutritional Sciences, CNS, University of Guelph; <sup>2</sup>Molecular Oncology Lab, McGill University, Royal Victoria Hospital, Montreal, QC

**9) Targeting the Wnt pathway in zebrafish as a bioassay to identify novel therapeutic compounds.**

Flavia Cristine Mascia Lopes<sup>1</sup>, Mariana Bastos dos Santos<sup>2</sup>, Eder Ramos Paganini<sup>2</sup>, Carlos Roberto Polaquini<sup>2</sup>, Paul Spagnuolo<sup>3</sup>, Luis Octavio Regasini<sup>2</sup>, Terence J Van Raay<sup>1\*</sup>  
<sup>1</sup>Department of Molecular & Cellular Biology, CBS, University of Guelph; <sup>2</sup>Instituto de Biociências Letras e Ciências Exatas, UNESP, São Jose do Rio Preto, São Paulo, Brazil; <sup>3</sup>School of Pharmacy, University of Waterloo

**10) Evaluation of the TGFβ-TAZ signaling axis in canine osteosarcoma tumours: optimization of immunohistochemistry protocols**

Anita Luu<sup>1</sup>, Courtney Schott<sup>2</sup>, Geoffrey Wood<sup>2</sup>, Alicia Vilorio-Petit<sup>1\*</sup>  
Departments of <sup>1</sup>Biomedical Sciences & <sup>2</sup>Pathobiology, OVC, University of Guelph

**11) In vitro effects of epidermal growth factor receptor kinase inhibition on radiation response in canine osteosarcoma cell lines**

Fernanda Mantovani<sup>1</sup>, Po-Yan Cheng<sup>1</sup>, Devan E. Thompson<sup>2</sup>, Jonathan Asling<sup>2</sup>, Jodi Morrison<sup>2</sup>, Anthony J. Mutsaers<sup>1,2\*</sup>  
Departments of <sup>1</sup>Clinical Studies & <sup>2</sup>Biomedical Sciences, OVC, University of Guelph

**12) Analysis of Munc18c and Syntaxin4 Function During Tumor Cell Invasion**

David M. Martynowicz, Marc G. Coppolino\*  
Department of Molecular & Cellular Biology, CBS, University of Guelph

**13) Canine splenic hemangiosarcoma treated with splenectomy and 6 doses of dose-intensified doxorubicin chemotherapy with or without metronomic cyclophosphamide**

Arata Matsuyama<sup>1</sup>, Valerie J. Poirier<sup>4</sup>, Robert A. Foster<sup>3</sup>, Fernanda B. Mantovani<sup>1</sup>, Anthony J. Mutsaers<sup>1,4\*</sup>  
Departments of <sup>1</sup>Clinical Studies, <sup>3</sup>Pathobiology, and <sup>3</sup>Department of Biomedical Sciences; <sup>4</sup>Health Sciences Centre, OVC, University of Guelph

**14) Par6 phosphorylation at Ser345 mediates invasion and metastasis of HER2-transformed mammary cells**

Charlotte Mitz<sup>1</sup>, Saedeh Daghar<sup>1</sup>, Divya Karsanji<sup>1</sup>, Raquel Muñoz Martinez<sup>1,2</sup>, Alicia Vilorio-Petit<sup>1\*</sup>  
<sup>1</sup>Department of Biomedical Sciences, OVC, University of Guelph; <sup>2</sup>Department of Biochemistry, Faculty of Sciences, University of Valladolid, Valladolid, Spain

**15) Investigation into the Regulation of Wnt Signaling by Axin2 during Development of Zebrafish**

Daniel Pasula, Christine Hanbury, Terry Van Raay\*  
Department of Molecular & Cellular Biology, CBS, University of Guelph

**16) Owner attitudes and practices regarding the nutrition of their dog diagnosed with cancer**  
Sashen Rajagopaul<sup>1</sup>, Adronie Verbrugge<sup>1\*</sup>, Jacqueline M. Parr<sup>1</sup>, David L. Pearl<sup>2</sup>, Jason B. Coe<sup>2</sup>, JP Woods<sup>1</sup>

*Departments of <sup>1</sup>Clinical Studies & <sup>2</sup>Population Medicine, OVC, University of Guelph*

**17) Knockdown of Autophagy/ Mitophagy Genes Sensitizes Leukemia Cells to Avocatin B-Induced Cell Death**

Rodrigo R, Lee EA, Spagnuolo PA\*

*School of Pharmacy, University of Waterloo*

**18) Estrogen receptor is a target for novel leukemia stem cell therapeutics**

Rota SG, Lee EA, Angka L, Doxey A, Minden M, Spagnuolo PA\*

*School of Pharmacy, University of Waterloo*

**19) Clinical Research in Companion Animals with Cancer**

Vicky Sabine<sup>1</sup>, Kaya Skowronski<sup>1</sup>, Geoff Wood<sup>2</sup>, Michelle Oblak<sup>1</sup>, Paul Woods<sup>1\*</sup>, Brenda Coomber<sup>3\*</sup>

*Departments of <sup>1</sup>Clinical Studies, <sup>2</sup>Pathobiology & <sup>3</sup>Biomedical Sciences, OVC, University of Guelph*

**20) The ICCI Companion Animal Tumour Sample Bank: facilitating translational cancer research**

Kaya Skowronski<sup>1</sup>, Vicky Sabine<sup>1</sup>, Courtney Schott<sup>2</sup>, Paul Woods<sup>1</sup>, Michelle Oblak<sup>1</sup>, Geoff Wood<sup>2</sup>, Brenda Coomber<sup>3\*</sup>

*Departments of <sup>1</sup>Clinical Studies, <sup>2</sup>Pathobiology & <sup>3</sup>Biomedical Sciences, OVC, University of Guelph*

**21) The Effects of 3TSR Fusion Proteins on Epithelial Ovarian Cancer**

Simone ten Kortenaar<sup>1</sup>, Jack Lawler<sup>2\*</sup>, Jim Petrik<sup>1\*</sup>

*<sup>1</sup>Department of Biomedical Sciences, OVC, University of Guelph; <sup>2</sup>Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, USA.*

**22) Bolus high-dose sunitinib overcomes potential for rebound metastasis following pre-surgical neoadjuvant treatment breaks**

Tracz A<sup>1</sup>, Mastri M<sup>1\*</sup>, Attwood K<sup>3</sup>, Bshara W<sup>4</sup>, Kim L<sup>2</sup>, Shen L<sup>2</sup>, Pili R<sup>2</sup>, Ebos JML<sup>1,2\*</sup>

*Department of <sup>1</sup>Cancer Genetics, <sup>2</sup>Medicine, <sup>3</sup>Biostatistics and Bioinformatics & <sup>4</sup>Pathology, Roswell Park Cancer Institute, Buffalo, NY, USA*

**23) Hypoxic cancer cells exploit a specialized protein synthesis to enhance their proliferation, migration, and invasion**

Joseph Varga, Nicole Kelly, Erin Brouwers, Christina Romeo, Jim Uniacke\*

*Department of Molecular & Cellular Biology, CBS, University of Guelph*

**24) Characterizing Wnt signaling activity and regulation in intestinal epithelial cells**

Alex Weiss, Terry Van Raay\*

*Department of Molecular & Cellular Biology, CBS, University of Guelph*

**25) *Examining the role of the 1,25D3-MARRS receptor in mammary gland development***

Allison Wilkin, Kelly Meckling\*

*Department of Human Health & Nutritional Sciences, CBS, University of Guelph*

**26) *DNA Ministrings: A new approach to cancer gene therapy***

Shirley Wong, Roderick Slavcev\*

*School of Pharmacy, University of Waterloo, Waterloo, Canada*