

Student Research Day



The Department of Oncology Presents:
13th Annual
Oncology Research Day

PROGRAM

Thursday, June 23, 2016
9:00 am - 3:00 pm
4th Floor, JCC Lecture Theatre

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ITINERARY

Oncology Research Day
Juravinski Cancer Centre
4th Floor Lecture Theatre

Thursday, June 23, 2016
9:00 a.m. to 2:45 p.m.

Time	Event
9:00 – 9:15 a.m.	Welcome, Dr. Sachi Voruganti, Associate Professor Chair and Host, Student Research Day
9:15 – 10:45 a.m.	Oral Presentations
10:45 – 12:00 noon	Poster Viewing
11:30 – 12:00 noon	Lunch
12:00 – 1:00 p.m.	Keynote Speaker, Dr. Brian Lichty, Associate Professor, Department of Pathology & Molecular Medicine, McMaster University <i>Title: A novel cancer therapy isolated in the jungles of Brazil</i> ”.
1:00 – 2:00 p.m.	Oral Presentations Continue
2:15 – 2:45 p.m.	Awards Presentation The Stuart Jay Cohen Memorial Awards Presentation <ul style="list-style-type: none">• Poster Research Awards• Oral Research Awards Dr. Mark Levine, Chair, Department of Oncology <ul style="list-style-type: none">• Acknowledgements and Closing Remarks

ORAL PRESENTATIONS (STARTING AT 9:00 AM)
4th Floor Lecture Theatre, Juravinski Cancer Centre

	Student	Supervisors & Presentations
1	<p>Paul Barnfield PGY5 Resident, Medical Oncology McMaster University 9:15 – 9:30 a.m.</p>	<p><u>Title:</u> Multiplex Assessments of Tumour Cells in Hamilton (MATCH) <u>Supervisor:</u> Rosalyn Juergens, Associate Professor, Oncology, McMaster University, Juravinski Hospital and Cancer Centre</p>
2	<p>Elysia Donovan PGY5 Resident, Radiation Oncology McMaster University 9:30 – 9:45 a.m.</p>	<p><u>Title:</u> Brachytherapy for endobronchial metastasis: An effective method of achieving palliative relief of cough, hemoptysis, chest pain and dyspnea <u>Supervisor:</u> Ranjan Sur, Professor, Oncology, McMaster University, Juravinski Hospital and Cancer Centre</p>
3	<p>V.D. Du Le Graduate Student Radiation Sciences McMaster University Juravinski Cancer Centre 9:45 – 10:00 a.m.</p>	<p><u>Title:</u> Dual modality optical biopsy of glioblastoma with diffuse reflectance and fluorescence <u>Supervisor:</u> Joe Hayward, Associate Professor, Medical Physics and Applied Radiation Sciences, McMaster University, Juravinski Hospital and Cancer Centre</p>
4	<p>Roochi Arora Resident, Internal Medicine McMaster University 10:00 – 10:15 a.m.</p>	<p><u>Title:</u> Neoadjuvant chemoradiation for the treatment of locally advanced esophageal cancer. <u>Supervisor:</u> Rosalyn Juergens, Associate Professor, Oncology, McMaster University, Juravinski Hospital and Cancer Centre</p>
5	<p>Samantha-Jo Caetano Graduate Student Mathematics & Statistics McMaster University 10:15 – 10:30 a.m.</p>	<p><u>Title:</u> Proposing and analysing methods which improve the Kaplan-Meier estimates of de-identified time-to-event data <u>Supervisor:</u> Gregory Pond, Associate Professor, Oncology, McMaster University, Juravinski Hospital and Cancer Centre</p>
6	<p>Vanessa Houde Postdoctoral Fellow Medicine/Oncology McMaster University 10:30 – 10:45 a.m.</p>	<p><u>Title:</u> Genetic loss of AMPK β1 accelerates tumorigenesis <u>Supervisor:</u> Gregory Steinberg, Professor, Medicine, McMaster University</p>

POSTER VIEWING FROM 10:45 A.M. – 12:00 NOON

LUNCH FROM 11:30 A.M. TO 12:00 NOON

KEYNOTE SPEAKER
DR. BRIAN LICHTY, ASSOCIATE PROFESSOR
DEPARTMENT OF PATHOLOGY & MOLECULAR MEDICINE
“A NOVEL CANCER THERAPY ISOLATED IN THE JUNGLES OF BRAZIL”
FROM 12:00 NOON TO 1:00 P.M.

ORAL PRESENTATIONS RESUME AT 1:00 P.M.

7	Pauline Kosalka Undergraduate (MD Program) Michael DeGroot School of Medicine 1:00 – 1:15 p.m.	Title: Developing a new model through quality improvement to reduce wait times for oncology patients presenting to the ED of the Niagara Health System. Supervisor: Kathleen Willis, Regional Sepsis Coordinator, Niagara Health System, St. Catharines
8	François Caron Fellow, Internal Medicine McMaster University 1:15 – 1:30 p.m.	Title: Risks of atrial fibrillation and bleeding associated with ibrutinib: A systematic review and meta-analysis Supervisor: Chris Hillis, Clinical Research Fellow, Oncology, Juravinski Hospital and Cancer Centre
9	Amy Gillgrass Postdoctoral Fellow Oncology McMaster University 1:30 – 1:45 p.m.	Title: What is the role of the immune response in TNBC? Supervisor: Anita Bane, Associate Professor, Oncology, McMaster University, Juravinski Hospital and Cancer Centre
10	Jessica Bogach Resident, General Surgery McMaster University 1:45 – 2:00 p.m.	Title: Quality concerns with pre-operative pelvic computed tomography (CT) or magnetic resonance imaging (MRI) scans for patients undergoing major rectal cancer surgery in Local Health Integration Network 4 (LHIN4) hospitals: A retrospective population-based chart audit. Supervisor: Marko Simunovic, Professor, Surgery, McMaster University, Juravinski Hospital and Cancer Centre

Poster Viewing and Floor Map

10:45 am - 12:00 Noon

- A. Courtney Coschi, Undergraduate Medical Student**
Understanding the attitudes and beliefs of oncologists regarding the transition/sharing of survivorship care with PCPs: A systematic review
Supervisor, Jonathan Sussman, Associate Professor, Oncology
- B. Derek Chu, Resident, Internal Medicine**
Systematic review and meta-analysis of antithrombotics (antiplatelets and anticoagulants) for cardiovascular events in patients with essential thrombocytosis
Supervisor, Sonia Anand, Professor, Medicine
- C. Oren Levine, Clinical Fellow**
Systemic therapy for previous untreated advanced BRAF-mutated melanoma: A network meta-analysis
Supervisor, Xie Feng, Assistant Professor, Clinical Epidemiology & Biostatistics
- D. Elysia Donovan, Resident, Radiation Oncology**
Volumetric modulated arc therapy versus intensity modulated radiotherapy versus 3D conformal planning technique for esophageal cancer: A new standard or case-based decision?
Supervisor, Ranjan Sur, Professor, Oncology
- E. Nhu Tram Nguyen, Resident, Radiation Oncology**
Brachytherapy as a sole treatment modality for early esophageal cancer
Supervisor, Ranjan Sur, Professor, Oncology
- F. Jeevin Shahi, Resident, Radiation Oncology**
The management of small cell lung cancer with radiotherapy: A Pan-Canadian survey of radiation oncologists.
Supervisor, Anand Swaminath, Associate Professor, Oncology
- G. Catherine Young, Undergraduate, Radiation Therapy**
12-hour shifts for radiation therapists
Supervisor, Marcia Smoke, Manager, Radiation Therapy
- H. Julianna Sienna, Resident, Radiation Oncology**
Sinonasal undifferentiated carcinoma with brain metastasis: A case report and review of literature
Supervisor, Brandon Meyers, Assistant Professor, Oncology
- I. Amber Murphy, Undergraduate, Medical**
Interest in GynOnc E-Learning modules for OB/GYN residents
Supervisor, Laurie Elit, Professor, Obstetrics and Gynecology

Poster Viewing and Floor Map

10:45 am - 12:00 Noon

- J. Kayla Driver, Graduate Student, Biochemistry and Biomedical Sciences**
The effect of approved drugs targeting dopamine transporters and receptors in breast cancer stem cells
Supervisor, John Hassell, Professor, Pathology & Molecular Medicine
- K. James Lally – Fellow, Medicine**
Elevated lipogenesis due to fructose overfeeding and a single-point mutation in acetyl-CoA carboxylase (ACC accelerates the development of hepatocellular carcinoma
Supervisor, Gregory Steinberg, Professor, Medicine
- L. Lyndsay Rayner, Graduate Student, Biology**
High Kaiso expression correlates with TGF- β signaling and tumor stage in triple negative breast tumours from women of African ancestry (WAA)
Supervisor, Juliet Daniel, Biology
- M. Blessing Bassey-Archibong, Graduate Student, Biology**
Kaiso depletion inhibits triple negative breast cancer cell proliferation
Supervisor, Juliet Daniel, Biology
- N. Linda Villani, Graduate Student, Medicine**
Canagliflozin potently activates AMPK and inhibits the growth and survival cancer cells
Supervisor, Gregory Steinberg, Medicine

JCC 4th Floor (10 Wing)





Keynote Speaker

Dr. Brian Lichty, PhD
Associate Professor
Pathology and Molecular Medicine
Division: Molecular Medicine
McMaster Immunology Research Centre

Dr. Brian Lichty is a distinguished scientist with extensive expertise in oncolytic viruses and related immunotherapies, including seminal work with Dr. John Bell at the Ottawa Regional Cancer Centre. He has been a professor in the Department of Pathology & Molecular Medicine and the McMaster Immunology Research Centre (MIRC) at McMaster University since 2004. Dr. Lichty's expertise includes influence research in the identification of strategies to leverage oncolytic viruses to harness the patient's immune system in a sustainable manner, including vaccine design and engineering to directly engage the adaptive immune system tumour-specific and/or to enhance combinations with other immunotherapies. He is also director of the Robert E. Fitzhenry vector lab at McMaster where clinical grade viral vaccines are manufactured for human clinical trials. Dr. Brian Lichty received his PhD from the University of Toronto and holds a BSc from the University of Guelph.

EVENT JUDGES

Oral Presentations



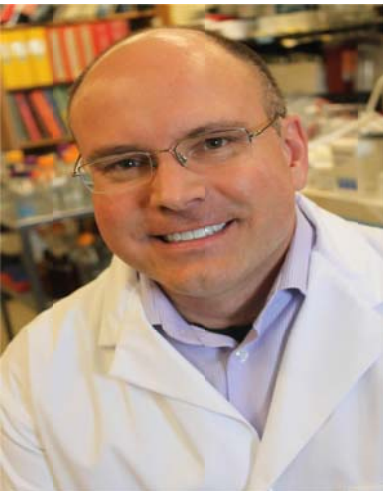
Dr. Anand Swaminath, B.Sc., MD., FRCPC
Associate Professor, Division of Radiation Oncology
Department of Oncology, Faculty of Health Sciences

Dr. Swaminath is a radiation oncologist at the Juravinski Cancer Centre and an Associate Scientist at the Escarpment Cancer Research Institute in Hamilton, Ontario. His main clinical interests are in the treatment of lung and hepatobiliary cancers with a focus on use of ablative radiotherapy directed at primary lung cancer and oligometastatic disease. His research interests are mainly in the evaluation of new technologies in radiotherapy delivery, clinical trials and patient outcomes.



Dr. Rosalyn Juergens, BS., MD., Ph.D.
Associate Professor, Division of Medical Oncology
Department of Oncology, Faculty of Health Sciences

Dr. Juergens is a medical oncologist at the Juravinski Cancer Centre and Scientist at the Escarpment Cancer Research Institute in Hamilton, Ontario. Her clinical expertise is in the area of lung cancer and esophageal cancer. Her area of research expertise is in functional imaging with FLT PET. Dr. Juergens' other area of research has been in developmental therapeutics with a focus on epigenetics. Her work focuses on the inhibition of DNA methyl transferase and histone deacetylators as therapeutic options in oncology.



Dr. Bradley Doble, PhD.
Scientist, McMaster Stem Cell and Cancer Research
Institute (SCC-RI)
Assistant Professor, Department of Biochemistry
and Biomedical Sciences, Faculty of Health Sciences

Dr. Doble's research program is focused on understanding the signaling mechanisms that maintain embryonic stem cells in a pluripotent self-renewing state versus those that promote their differentiation into specialized cell types. He is particularly interested in understanding how signals are relayed through cells via changes in the phosphorylation status of signaling molecules. Enzymes called kinases are responsible for phosphorylating proteins, often dramatically changing the function of the protein targets.

EVENT JUDGES

Poster Presentations



Dr. Jeffrey Greenspoon, M.Sc., MD., FRCPC
Assistant Professor, Division of Radiation Oncology
Department of Oncology, McMaster University

Dr. Jeffrey Greenspoon is a radiation oncologist at the Juravinski Cancer Centre. His clinical expertise is in the treatment of both adult and children brain tumours – including stereotactic radiosurgery (SRS), spinal and paraspinal tumours including stereotactic body radiotherapy (SBRT) and complex retreatment cases.



Dr. Janos Juhasz, B.Sc., M.Sc., Ph.D., MCCPM
Medical Physicist and Adjunct Professor
Department of Medical Physics
Juravinski Cancer Centre and Ryerson
University

Dr. Janos Juhasz primary research and clinical focus is in the field of radiation biophysics and image guided radiation therapy. He is currently a member of the breast disease site team and responsible with the total body irradiation treatment. Dr. Juhasz also teaches radiation biology and radiation therapy at Ryerson University in Toronto.



Dr. Kevin Zbuk, M.Sc., MD., FRCPC
Associate Professor, Division of Medical Oncology
Department of Oncology, McMaster University

Dr. Zbuk's clinical areas of expertise is in the treatment of gastrointestinal (GI) malignancies and cancer genetics. He is the Head of the Cancer Genetics Program at the Juravinski Cancer Centre.



The Department of Oncology and Faculty of Health Sciences at McMaster University are grateful to the following organizations for their support of Student Research Day

Eli Lilly Canada Inc.

Pfizer Canada Inc.

The Juravinski Hospital and Cancer Centre

The Stuart Jay Cohen Memorial Fund