



Radiation Oncology
UNIVERSITY OF TORONTO

Annual Report
2008-2009

VISION

Excellence and Leadership in Radiation Medicine
Research, Education, and Clinical Practice

DEPARTMENT OF RADIATION ONCOLOGY

MISSION

To Advance the Science and Practice of
Radiation Medicine

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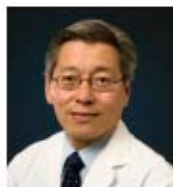
Department of Radiation Oncology Executive
2008/09



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Academic Affairs
Pam Catton



Vice Chair
Clinical Affairs
Shun Wong



Vice Chair
Academic Programs
David Jaffray

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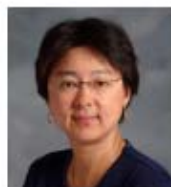
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Director
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May Tsao



Director
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Chair Letter

It is with great pleasure that I present to you the University of Toronto, Department of Radiation Oncology 2008–2009 Annual Report. Despite challenges posed by an unstable economic climate, the Department continues to strengthen and innovate upon our first class academic and clinical programs.

I am proud to report that we have expanded our pool of talent in the disciplines of Radiation Oncology, Physics and Radiotherapy, with seven new faculty members joining the Department. We welcomed Dr. Deidre Batchelar, Dr. Marco Carlone, Dr. Hans Chung, Dr. Catherine Coolens, Dr. Saibishkumar Elantholi Parameswaran, Anna Kirilova, Dr. Daniel Létourneau, Dr. Patricia Lindsay, Dr. Miller MacPherson, and Dr. Danny Vesprini to the Department. As UT DRO continues to grow, we are mindful of ensuring that we establish a solid infrastructure and recruit outstanding leaders. We are very proud of the 2008 Michael Fry Research Prize in recognition of his extraordinary contributions to the field of radiation research awarded by the Radiation Research Society to Professor Bradley Wouters last year. In recognition of her contributions to research and teaching, mentorship and promoting international collaboration, and her leadership contribution to the International Gynecologic Cancer Society (IGCS), Dr. Gillian Thomas was awarded the 2008 IGCS Award for Excellence. Dr. Gregory Czarnota was awarded a prestigious Cancer Care Ontario Research Chair. Moreover, Dr. Robert Bristow received the 2009 Faculty of Medicine Excellence in Postgraduate Medical Education Award in recognition of his achievements in Teaching and Performance, Mentorship and Advocacy.

Within the past year, Dr. Juanita Cook left Toronto to assume a position as Professor of Radiation Oncology at the BCCA Center for the Southern Interior, University of British Columbia Okanogan.

I want to congratulate Drs. Cynthia Menard, Michael Sharpe, and Yee Ung, who were promoted to the rank of Associate Professor, and Drs. Andrea Bezjak, Robert Bristow, Edward Chow, and Michael Milosevic, who were promoted to the rank of Professor.

Our education programs continued to expand. Under the leadership of Professor Charles Catton, the Radiation Oncology Fellowship Program introduced an intake of new fellows midyear in January in addition to the usual July intake. This will provide greater flexibility for international applicants to join our program and a smoother turnover. This will give particular advantage to the applicants from the southern hemisphere.

Professor David Wiljer and his team revitalized the UT DRO Continuing Education Program. The CE events and courses were particularly successful this year, boasting increased attendance, and drawing participants from all over Canada, the United States, and international institutions in Australia, the United Kingdom, and Mexico. Key events such as *Target Insight III* and the *6th Toronto Radiation Medicine Conference* saw a boost in sponsorship in spite of challenging economic environment. Moreover due to success in

attendance and feedback, the Image-Guided Radiation Therapy (IGRT) Education Course was extended for another year. The faculty developed a new IMRT Course to meet the provincial educational needs. This course will run four times over a period of two years.

In order to facilitate discussion about our strategic vision and direction among myself and the Department's Vice-Chairs and Directors, we hosted our first annual UT DRO Leadership event.

It is with great enthusiasm that I share with you our decision to develop a strategic plan in the coming months. We eagerly anticipate developing a course of action for actualizing the Department's vision of excellence and leadership in radiation medicine research, education, and clinical practice.

Finally, I would like to acknowledge the contributions made by Dr. Shun Wong, who served as Acting Chair from April to July 2009 during my sabbatical leave and UT DRO Vice-Chairs Professor Pamela Catton, Professor David Jaffray, and Professor Shun Wong. Their leadership contributions are invaluable to the success of UT DRO.

I am confident that, as you review this year's report, you will be impressed with the accomplishments, the vision and the direction of the department.

Mary Gospodarowicz, MD, FRCPC, FRCR (Hon)
Professor and Chair

Vice-Chair Reports

Academic Affairs

Dr. Pamela Catton

As Vice-Chair for Academic Affairs, Dr. Pamela Catton is responsible for the oversight of all education and financial activities in the Department. During the 2008-2009 period her efforts were focused on 1.) initiating key partnerships in the radiation oncology field to enhance and expand educational programming despite fiscal limitations in a challenging economic climate; 2) ensure all departmental educational activities are orientated towards serving the professional and research training needs of all radiation professional disciplines; 3) adapt and build on established programs to meet the educational needs of a much wider group of learners external to the Department.

Initiatives in Continuing Medical Education included partnering with Princess Margaret Hospital and Cancer Care Ontario (CCO) to offer larger and more innovative collaborative events and expand the program of interprofessional radiation medicine education events offered. In order to meet provincial practice needs in the field of intensity modulated radiation therapy (IMRT), a two-day education course in IMRT was offered externally to radiation medicine professionals from across Ontario. Dr. Michael Sharpe was awarded an educational grant by CCO to lead this initiative.

A clinical education partnership is in development with the Southlake Regional Health Center in Newmarket and the McLaughlin Durham Regional Cancer Centre in Oshawa. Moreover the Department is actively working with Ryerson University to form linkages with Physics education and training in support of several of our education programs.

At the graduate level, the Department is committed to adhering to a standard of excellence and cutting edge innovation. It is also recognized that course delivery methods need to become more flexible to reach the working professional. This year the Radiobiology Course was delivered in a condensed format, as a prelude to making our training programs more accessible to practitioners, residents and graduate students across the country. Plans to develop technology assisted courses are in the works.

The outstanding leadership and teaching abilities of several members of the Department were acknowledged through prestigious awards. Dr. Robert Bristow received the 2009 Faculty of Medicine "Excellence in Postgraduate Medical Education Award" in recognition of his achievements in Teaching and Performance, Mentorship and Advocacy. Dr. Meredith Giuliani, PGY2 won one of only two Postgraduate Medical Education (PGME) "Trainee Leadership Awards", introduced this year by the Faculty of Medicine; the nominees were from across all programs of the University of Toronto. Dr. Michael B. Sharpe presented a refresher course at the Radiological Society of North America's 2008 Annual Meeting and Scientific Assembly entitled: "Multimodality Image Integration". Only a select group of radiologists are invited to contribute to the continuing professional development of their colleagues at this annual meeting which was attended this year by over 27,427 professional registrants representing 95 countries.

Clinical Affairs

Dr. Shun Wong

As Vice-Chair for Clinical Affairs, Dr. Shun Wong is responsible for policy and program issues related to relations with clinical sites and faculty. In this portfolio, he oversees the appointment, three-year review and promotions of members of the Department, and ensures that the recruitment and medical manpower plan at the clinical sites is aligned with the academic plan of the University Department.

The past 12 months have witnessed continuing growth of clinical, research and educational activities at Princess Margaret Hospital-University Health Network and Odette Cancer Centre-Sunnybrook Health Sciences Centre. Both centres continued with upgrading of state-of-the-art radiation planning and treatment machines and information systems. Despite the economic downturn, the radiation program at the two sites continued to benefit from strong philanthropic support by the respective hospital foundations.

The Department continued to foster its regional leadership in research and cancer care with multiple provincial partners including the Southlake Hospital, Royal Victoria Hospital, Credit Valley Hospital and the Molecular Medicine Research Centre at the Thunder Bay Regional Health Sciences Centre. Dr. Pdraig Warde was appointed the Head of the Provincial Radiation Treatment Program of Cancer Care Ontario. The Department continued to provide educational and clinical support to an expanding list of academic and community hospitals both within and outside the Toronto Central LHIN.

Dr. Peter O'Brien retired after a long and illustrious career as Head of Medical Physics at Odette Cancer Centre. We bid farewell to Dr. Juanita Crook who moved to Kelowna to pursue other career interests after building an internationally renowned prostate brachytherapy program at Princess Margaret Hospital.

The academic activities of the Department continue to grow and renew with a number of successful recruits in all three disciplines, Radiation Oncology, Physics and Radiotherapy. New appointments in 08-09 included: Dr. Deidre Batchelar, Assistant Professor; Dr. Marco Carlone, Assistant Professor; Dr. Hans Chung, Assistant Professor; Dr. Catherine Coolens, Assistant Professor; Dr. Saibishkumar Elantholi Parameswaran, Assistant Professor; Anna Kirilova, Assistant Professor; Dr. Daniel Létourneau, Assistant Professor; Dr. Patricia Lindsay, Assistant Professor; Dr. Miller MacPherson, Assistant Professor; and Dr. Danny Vesprini, Assistant Professor.

Congratulations are in order to Drs. Andrea Bezjak, Robert Bristow, Edward Chow and Michael Milosevic who were promoted to the rank of Professor, and Drs. Cynthia Menard, Michael Sharpe and Yee Ung to the rank of Associate Professor.

Academic Programs

Dr. David Jaffray

The rapid pace of innovation in the field of Radiation Oncology shows no evidence of slowing. Advances in technology and our understanding of the biological basis of radiation response suggest that the field is fertile for further improvements in the therapeutic ratio. Fortunately, we have had a number of young and eager minds join our faculty in the past year and the quality of applicants applying to our residency and fellowship programs suggests that there will be more joining in the future. The department has had many successes over the past year including the addition of a CCO research chair in the domain of Radiation Oncology (Dr. Gregory Czarnota), the successful funding of the Hypoxia program project grant from the NCIC Terry Fox Program, and numerous operating grants from the CIHR, NCIC, and the OICR. Overall, our grant funding is holding strong with more of our faculty being successful in peer-reviewed grant funding. The department has developed into a rich mosaic of interdisciplinary teaching and research in the domain of radiation oncology.

A department of this scale is poised to tackle the major questions in Radiation Oncology - issues of technology assessment, adoption of adaptive methods, optimization of combined modality therapy, the role of heavy ions, and the potential for integration of repair/regeneration strategies come to mind. We are also well positioned to advance education programs on the many topics of which we have demonstrated skill. Previous success in teaching of Radiobiology, IGRT, and IMRT could easily be extended to developing areas, such as, MR in Radiation Oncology or the use of pre-clinical imaging in radiation research. The development of the professional masters and the physics residency program in the Department highlight yet another dimension in which we have grown and can grow further. With so much potential, it is timely to take inventory and reflect on where we should go collectively with this collaboration. The fall of 2009 will see us embark on a strategic planning process for the department and I invite you to engage in this activity and help set the course for Radiation Oncology in Toronto and beyond.

Faculty

Radiation Oncology

Professor

James Brierley
Pamela Catton
Bernard Cummings
Anthony Fyles

Mary Gospodarowicz
Fei-Fei Liu
Brian O'Sullivan
Jean-Philippe Pignol

Gillian Thomas
Richard Tsang
Padraig Warde
Shun Wong

Associate Professor

Ida Ackerman
Andrea Bezjak
Robert Bristow
Charles Catton
Edward Chow
Cyril Danjoux
Laura Dawson

David Hodgson
Normand Laperrriere
Andrew Loblaw
Robert G. MacKenzie
Michael Milosevic
Lawrence F. Paszat
David Payne

Eileen Rakovitch
Jolie Ringash
Rebecca Wong

Assistant Professor

Judith Balogh
Lisa Barbera
Elizabeth Barnes
Andrew J. Bayley
Anthony Brade
Patrick Cheung
John Cho
Hans Chung
Peter Chung
Gregory Czarnota
Phillip Davey

Robert E. Dinniwell
Mary A. Doherty
Saibishkumar Elantholi
Parameswaran
Andrew J. Hope
John Kim
Anne Koch
Wilfred Levin
Cynthia Menard
Lee A. Manchul
Michael McLean

Barbara-Ann Millar
Gerard Morton
Ian Poon
Arjun Sahgal
Alex Sun
Ewa Szumacher
May Tsao
Yee Ung
Danny Vesprini
John Waldron
Woodrow Wells

Lecturer

Jacqueline Spayne

Adjunct

Thomas McGowan

Radiation Physics

Professor

David Jaffray

John Rowlands

Assistant Professor

Hamideh Alasti
 Deidre Batchelar
 Jean-Pierre Bissonnette
 Stephen L. Breen
 Kristy K. Brock
 Marco Carlone
 Young-Bin Cho
 James Chow

Catherine Coolens
 Timothy Craig
 Mostafa Heydarian
 Mohammad Islam
 Harald Keller
 Daniel Letourneau
 Patricia Lindsay
 Miller MacPherson

Katherine Mah
 Howard Michaels
 Douglas Moseley
 Geordi Pang
 Thomas Purdie
 Michael Sharpe
 Collins Yeboah
 Ivan Yeung

Lecturer

David Beachey

Robert Heaton

Alexander Lightstone

Radiation Therapy**Assistant Professor**

Carol Gillies
 Lori Holden

Tara Rosewall
 Douglass Vines

Lecturer

Amanda Bolderston
 Lisa DiProspero
 Cynthia Eccles
 Nicole Harnett

Sophie Huang
 Valerie Kelly
 Anna Kirilova
 Karen A. Moline

Cathryne Palmer
 Emily Sinclair

Instructor

Ruth Barker
 Renate Bradley
 Angela Cashell
 Martin Chai

Patricia Charman
 Fiona Cherryman
 Marta Evans
 Wendy Flanagan

Jane Higgins
 Kari Osmar
 Marc Potvin
 Aisha Sheikh

Biology**Professor**

Bradly G. Wouters

Assistant Professor

Allison Brown

Marianne Koritzinsky

Education**Associate Professor**

Joyce Nyhof-Young

Assistant Professor

David Wiljer

Administrative Staff

Administrative Manager
Business Officer
Departmental Secretary

Effie Slapnicar
Telma Liu
Rosa Da Silva

Administrative Coordinators

Resident Training Program
Physics Residency in Radiation Oncology
Fellows

Kim O'Hearn
Wanita Lambert
Elena Gessas

Medical Radiation Sciences Program

Associate Registrar
Student Services Officer
Administrative Assistant

Jeremy Kwan
Humberto Rocha
Tanya Webb

Department of Radiation Oncology Committees

Executive Committee

Mary Gospodarowicz (Chair)
Pamela Catton
Peter Chung
Anthony Fyles
David Jaffray
Fei-Fei Liu
Nicole Harnett
Barbara-Ann Millar
Peter O'Brien
Cathryne Palmer
John Rowlands
Jacqueline Spayne
Padraig Warde
Shun Wong
Effie Slapnicar (Ex-officio)

Finance Committee

Pam Catton (Chair)
Mary Gospodarowicz
David Jaffray
Shun Wong
Telma Liu (Ex-officio)
Effie Slapnicar (Ex-officio)

Appointments Committee

Shun Wong (Chair)
Pam Catton
Anthony Fyles
Mary Gospodarowicz
John Rowlands
Gillian Thomas
Padraig Warde
Effie Slapnicar (Ex-officio)

Academic Communications Committee

Anthony Brade (Chair)
Gaurav Bahl
Kristy Brock
Greg Czarnota
Rosa da Silva
Sten Myrenhaug
Kim O'Hearn
Effie Slapnicar
Danny Vesprini
Tanya Webb

Academic Promotions Committee

Shun Wong (Chair)
Pam Catton
Anthony Fyles
Mary Gospodarowicz
David Jaffray
John Rowlands
Gillian Thomas
Padraig Warde
Effie Slapnicar (Ex-officio)

Research Advisory Committee

Anthony Fyles (Chair)
Charles Catton
David Jaffray
Andrew Loblaw
Fei-Fei Liu
Michael Milosevic
John Rowlands

Teaching Effectiveness Committee

Pam Catton (Chair)
Ida Ackerman
Jean-Pierre Bissonnette
Cathryne Palmer

Education Committees

Undergraduate Medical Education Committee

May Tsao (Chair)
Joyce Nyhof-Young
Lee Manchul
Ewa Szumacher
Woodrow Wells

Postgraduate Medical Education Committee

Barbara-Ann Millar (Chair)
Ida Ackerman (Interim Chair)
Sadia Ali
Ameen Al-Omair
Gaurav Bahl
Jean-Pierre Bissonnette
Elisa Chan
Louis Fenkell
Matthew Follwell
Meredith Giuliani
Eugene Hong
Harold Kellar
Eric Leung
Karen Lim
Mike Milosevic
Sten Myrenhaug
Kim O'Hearn
Sarah Rauth
Ewa Szumacher
May Tsao
Woodrow Wells
Rebecca Wong

Fellowship Committee

Charles Catton (Chair)
Andrea Bezjak
Gregory Czarnota
Anthony Fyles
Mary Gospodarowicz
Michael Milosevic
Gerard Morton
Padraig Warde
Shun Wong
Effie Slapnicar (Ex-officio)

Department of Radiation Oncology Representation On University of Toronto Committees

Catton, P

Faculty of Medicine Education Committee, Member
Institute of Medical Science, Admissions Committee, Member

Gospodarowicz, M

Clinical Chairs Committee, Faculty of Medicine, Member
Clinical and Basic Science Chairs Committee, Faculty of Medicine, Member
Clinical Relations Committee, Faculty of Medicine, Member
Council of Health Sciences Committee, Faculty of Medicine, Member

Harnett, N

Curriculum Committee, Institute of Medical Science, Member
Admissions Committee, Institute of Medical Science, Member
Faculty Council, Faculty of Medicine, Member

Manchul, L

Continuing Education and Faculty Development Committee, Faculty of Medicine Faculty Council, Chair
Agenda Committee, Faculty of Medicine Faculty Council, Member

Nyhof-Young, J

Dean's Advisory Committee for Equity and Diversity, Member
Faculty Research Grants Committee (Clinical/Public Health Section), Faculty of Medicine, Member

Ringash, J

Academic Board of the Governing Council, Member
Faculty of Medicine Faculty Council, Member
Clinical Epidemiology, Department of Health Policy, Management and Evaluation, Associate Programme Director
Curriculum Committee, Department of Health Policy, Management and Evaluation, Member
Faculty Committee, Department of Health Policy, Management and Evaluation, Member
Clinical Epidemiology Institute (CME event) Committee, Department of Health Policy, Management and Evaluation, Member

Clinical Programs

Princess Margaret Hospital

Dr. Pdraig Warde

The Princess Margaret Hospital Radiation Medicine Program (RMP) is one of the largest in the world. With modern facilities equipped with 16 linear accelerators, all IMRT and IGRT enabled, Leksell Gamma Knife 4C and Perfexxion, HDR and PDR brachytherapy programs, it is capable to handle most radiation therapy challenges.

The clinical expertise spans all cancer sites with large breast, lung, genitourinary, upper and lower gastrointestinal, gynecologic, head and neck, central nervous system, ocular, lymphoma, sarcoma, skin, endocrine and pediatric radiation oncology groups. In 2008 – 2009, PMH RMP continued to expand its clinical and academic programs. RMP faculty provided consultations in many collaborating institutions including St Michael's and St. Joseph's Hospitals in Toronto and the Southlake Cancer Centre in Newmarket.

The staff is involved in broad scope of research programs from basic cancer biology research, translational research program, large clinical trials program, and significant health services research portfolio. Last year witnessed continued expansion of translational research conducted in newly opened STTARR. The STTARR research programs, www.sttarr.ca, foster collaboration and interdisciplinary research.

In recognition of compassionate and outstanding care at the Princess Margaret Hospital, Dr. Wilfred Levin received the Gerald Kirsh Humanitarian Award.

We are especially proud of the expanding research initiatives conducted by PMH radiation therapists, the largest such program in the country and one of the largest internationally.

RMP PMH leadership extends well beyond radiation oncology and Toronto. Dr Pdraig Warde has been appointed as Provincial Head, Radiation Treatment Program at Cancer Care Ontario. Dr. Marco Carlone was appointed chair of Science and Education Council of the Canadian Organisation of Physicists in Medicine (COMP). Drs. Ivan Yeung and Miller MacPherson have been appointed at the clinical physics leads in Southlake and Credit Valley Cancer Centres respectively. Dr. Jim Brierley has been appointed as chair of the National Staging Advisory Committee of the Canadian Partnership against Cancer.

The ongoing partnership with the Aviano Cancer Centre in Italy saw faculty from Italy visit PMH and presentations by RMP staff at the Aviano Cancer Centre's "Highlights in Oncology" meeting in Pordenone in February 2009.

Toronto-Sunnybrook Regional Cancer Centre

Dr. Shun Wong

The past twelve months have witnessed continuing growth of the clinical, research and educational activities of the Radiation Treatment Program at Sunnybrook Health Sciences Centre - Odette Cancer Centre. Over 6200 new radiation oncology patients were seen in academic year 08-09, and about 100,000 fractions of radiation treatment were delivered. Upgrades to the existing clinical infrastructure continued. The clinical operations of the Program became fully electronic and paperless in June 2009. New linacs added capacity to IGRT utilizing kV cone beam CT. Many other specialized programs including tomotherapy, stereotactic radiation therapy (body and head) and brachytherapy continued to expand. Dosimetry moved to a newly renovated suite with significant ergonomic improvement for the staff. Renovation began for a 3T MRI research program in collaboration with Imaging Research at Sunnybrook. The Radiation Treatment Program continued to benefit from philanthropic support from The Sunnybrook Foundation.

Dr. Hans Chung and Dr. Danny Vesprini were appointed to the Department, and three additional radiation oncologists were successfully recruited to start over the next two academic years. Dr. Peter O'Brien retired as Head of Medical Physics after over 30 years of service. His leadership will be deeply missed.

The Program continued to foster its regional leadership role in cancer care. In addition co-managing the temporary radiation treatment facility at the Royal Victoria Hospital (RVH), Radiation Oncologists continued to participate in peripheral clinics and multidisciplinary cancer conferences at a large number of community hospitals both within and outside of the Toronto Central LIHN.

Faculty members continued to be successful in securing a external peer-reviewed and industry supported grants. Dr. Gregory Czarnota was awarded a Cancer Care Ontario Research Chair. These research grants and awards are detailed elsewhere in the annual report. Last but not least, members of the Department garnered three Cancer Care Ontario Innovation Awards.

Education Report

In 2008-2009, the UT DRO continued its strong commitment to quality health professional education and research training. As a result, a number of important Departmental initiatives came to fruition.

Initiatives in Continuing Medical Education included partnering with Princess Margaret Hospital and Cancer Care Ontario (CCO) to offer larger and more innovative collaborative events and expand the program of interprofessional radiation medicine education events offered. In order to meet provincial practice needs in the field of intensity modulated radiation therapy (IMRT), a two-day education course in IMRT was offered externally to radiation medicine professionals from across Ontario. Dr. Michael Sharpe was awarded an educational grant by CCO to lead this initiative.

A clinical education partnership is in development with the Southlake Regional Health Center in Newmarket and the McLaughlin Durham Regional Cancer Centre in Oshawa. Moreover the Department is actively working with Ryerson University to form linkages with Physics education and training in support of several of our education programs.

At the graduate level, the Department is committed to adhering to a standard of excellence and cutting edge innovation. It is also recognized that course delivery methods need to become more flexible to reach the working professional. This year the Radiobiology Course was delivered in a condensed format, as a prelude to making our training programs more accessible to practitioners, residents and graduate students across the country. Plans to develop technology assisted courses are in the works.

Dr. Peter O'Brien retired as Program Director of the Medical Physics Residency Program and the role has been filled by Dr. Jean-Pierre Bissonnette. Now in its second year, the program had eight Physics Residents and expects to have ten in 2009-2010.

The outstanding leadership and teaching abilities of several members of the Department were acknowledged through prestigious awards. Dr. Robert Bristow received the 2009 Faculty of Medicine "Excellence in Postgraduate Medical Education Award" in recognition of his achievements in Teaching and Performance, Mentorship and Advocacy. Dr. Meredith Giuliani, PGY2 won one of only two Postgraduate Medical Education (PGME) "Trainee Leadership Awards", introduced this year by the Faculty of Medicine; the nominees were from across all programs of the University of Toronto. Dr. Michael B. Sharpe presented a refresher course at the Radiological Society of North America's 2008 Annual Meeting and Scientific Assembly entitled: "Multimodality Image Integration". Only a select group of radiologists are invited to contribute to the continuing professional development of their colleagues at this annual meeting which was attended this year by over 27,427 professional registrants representing 95 countries.

Graduate Education

The UT DRO has made a substantial commitment to research training in Radiation Medicine by developing collaborative programs within the Faculty of Medicine's Graduate Institute: the Institute of Medical Science, supporting graduate training in other Departments i.e. Health Policy, Management and Evaluation (HPME) and Medical Biophysics, and by supervising graduate students from a variety of programs in within and outside the University of Toronto.

UT DRO Graduate Training Initiatives at the University of Toronto

UT DRO and Institute of Medical Science

Graduate Program Director – Nicole Harnett

Research Stream

The UT DRO has established a collaborative relationship with the Institute of Medical Science in developing graduate research training opportunities in radiation medicine via the Radiation Oncology Stream. Eligible Trainees in all three radiation medicine professional programs can apply to the MSc or PhD program to be supervised by UT DRO Faculty who have graduate appointments.

In 2008-2009 the following UT DRO graduate students were enrolled in the MSc/PhD stream in the Institute for Medical Sciences:

Name	Degree	Thesis Supervisor
Chan, Phillip	MSc	Fyles, A.
Dinniwell, Robert	MSc	Milosevic, M.
Franks, Kevin	MSc	Jaffray, D.
Koh, Eng-Siew	MSc	Catton P.
Case, Robert	MSc	Dawson, L.
Lim, Karen	MSc	Milosevic, M.
Mehdizadeh, Hany	MSc	Siewerdsen, J.
Amaral, Joao	MSc	Roberts, T.
Chopra, Supriya	MSc	Menard, C.
Chung, Caroline	MSc	Menard, C.
McArdle, Orla	MSc	Hodgson, D.
Taremi, Mogan	MSc	Bezjak, A.

Three graduate courses were offered in IMS to support this graduate program:

MSC1500H - Advanced Radiotherapy and Medical Physics
Dr. Jean-Philippe Pignol, Supervisor

MSC1501H - Frontiers in Radiation Medicine Research
Dr. Robert Bristow and Dr. Bradly Wouters, Supervisors

MSC1502H - Translational Radiobiology Applied to Radiation Science
Dr. Jeffrey H. Siewerdsen, Supervisor

Professional Stream - MHSc Medical Radiation Sciences

In 2008 a new professional masters degree program - MHSc Medical Radiation Sciences was approved. There were no students registered for the 2008-2009 academic year but the program has selected the intake class for 2009-2010. Course development is underway.

EIRR 21 Research Training Program

Program Director Dr. Fei-Fei Liu

Introduction

The EIRR 21 research training program is a CIHR funded initiative designed to provide enhanced training opportunities to develop a new cadre of transdisciplinary scientists.

Participants

The trainees currently fully enrolled in the Program in 2008-2009 include:

Trainee	Status	Supervisor(s)
Bassi, Christian	MSc	Stambolic, V.
Chopra, Supriya	MD-MSc	Menard, C.
Harding, Shane	PhD	Bristow, R.
How, Christine	PhD	Liu, F-F.
Lakshman, Minalini	PDF	Bristow, R.
Lee, Justin	MD-MSc	Czarnota, G.
Lee, Mark	MD-MSc	Dawson, L.
Lim, Karen	MD-MSc	Fyles, A. / Milosevic, M.
O'Donnell, Lara	PDF	Durocher, D.
Shirodkar, Purnata	MSc	Koch, A.
Stewart, Kelly	PhD	Kelley, S.
Taghibakhsh, Farhad,	PDF	Rowlands, J.

Structure of program

EIRR21 continues to expand, with the current cohort of 12 active trainees, in addition to 12 alumni (Table 1), and 15 full graduates. Many of these graduates hold academic positions in Canada and Europe, as either clinician-scientists, research physicists, post-doctoral fellows in research, or careers in the biotechnology industry. Hence, all alumni (100%) are contributing to biomedical research in some capacity, either within Canada or globally.

From the group of the current 24 trainees, 12 have completed their full 2 years within EIRR21, but are still active participants because they find the Brainstorm sessions of particular value. The remaining 12 active trainees all currently hail from the University of Toronto. With the most recent competition (December 2007), we successfully recruited 4 MD trainees, which addresses an area of need in our program.

Academic output

The spectrum of research in EIRR21 continues to be broad, ranging from *in vitro* understanding of basic molecular mediators of radiation damage response and repair, to complex *in vivo* models of radiation-induced lung injury, novel radiopharmaceuticals for therapy and imaging human tumour models, to optimizing radiation treatment delivery to lung, cervix, and liver cancer patients, and discovering biomarkers for prostate cancer patient radiation response and toxicity. Such a breadth of research topics, embedded within a single research training program is truly unique, providing an outstanding network for interdisciplinary interactions, enabling “bridging” science to be conducted.

The publication record from the EIRR21 trainees continues to be exceptional. In terms of quantity of publications, there are a total of 94 (published or in press) publications, contributed by 26 trainees, for an average of 3.6 papers per trainee, which is an impressive feat, given that the average duration for each trainee in EIRR21 is only approximately 2 years. In addition, several are in high impact cancer Journals, including *Science*, *Curr Biol*, *Mol Cell*, *J Clin Oncol*, *Mol Cell Biol*, *Cancer Res*, *Cl Cancer Res*, *Nucl Acid Res*, *J Cell Biol*, hence, both the quantity and quality of research are remarkable. For the second year in a row, Dr. Nadine Kolas, an EIRR21 alumnus (supervisor Dr. Daniel Durocher), was the recipient of the highly coveted John Charles Polanyi Prize from the Ontario Government, targeting researchers in the early stages of their careers who are continuing post-doctoral studies in Ontario.

Special activity this year

The 2008 Excellence in Radiation Research for the 21st Century (EIRR21) Research Day took place Monday afternoon, June 9th, 2008. This year, the format was comprised of two Presentation and Discussion Sessions. The first session, entitled “Applied Molecular Biology to Radiation Response” was chaired by Dr. Bradly Wouters, with selected oral presentations from Dr. Paul Boutros (Medical Biophysics), Danny Costantini (Pharmaceutical Sciences), Dr. Nadine Kolas (Molecular Genetics), and Kelly Stewart (Biochemistry). Following their presentations, these four EIRR21 trainees constituted a panel, discussing the challenges of how their science could be applied to improve radiation response of cancer patients.

The second session, entitled “Imaging and Physics Challenges for Radiation Therapy” was chaired by Dr. David Jaffray, with oral presentations by Jinzi Zheng (Medical Biophysics), Dr. Justin Lee (Medical Biophysics/UT-DRO), Dr. Naomi Matsuura (Medical Biophysics), and Dr. Karen Lim (IMS/UT-DRO), with their presentations addressing how their sciences could improve radiation therapy outcome for cancer patients. The content of the afternoon’s presentations and discussions will be formulated into a position paper on “Future Research Challenges for Radiation Medicine”.

There was also a poster competition, with a First Prize awarded to David Katz (supervisor Dr. Fei-Fei Liu), and shared Second Prizes to Kristin McLarty (supervisor Dr. Raymond Reilly), and Michelle Li (supervisor Dr. Brent Derry).

Medical Education

Undergraduate Medical Education

Program Director: Dr. May Tsao

Associate Program Director: Dr. Joyce Nyhof-Young

Introduction

The UT DRO not only supports the Faculty of Medicine Undergraduate Medical Education curriculum, but is also committed to support the needs of individual medical students throughout the country and abroad as they seek knowledge and experiences in Radiation Oncology. These experiences are primarily offered as electives, observerships and research attachments.

Structure of program

The Department of Radiation Oncology continued to provide teaching to pre-clerkship (years 1 and 2) and clerkship (years 3 and 4) medical students. Pre-clerkship teaching included teaching students in the Determinants of Community Health (DOCH) II course and providing lectures and seminars for the Pathobiology of Disease course.

Eighteen University of Toronto electives, eighteen visiting electives, seventeen observership's, six Ambulatory Community Experience (ACE) students and nine Ivan Smith Scholarship awardees rotated through the Department of Radiation Oncology clinical practices at both Sunnybrook Health Sciences Centre - Odette Cancer Centre and Princess Margaret Hospital.

Academic output

The overall average teaching effectiveness score was 4.5 (out of 5) for Sunnybrook Health Sciences Centre - Odette Cancer Centre and Princess Margaret Hospital, meeting Departmental standards for "Excellent".

Special activity this year

An undergraduate medical education objectives package for the Department of Radiation Oncology at University of Toronto was developed during this academic year.

Postgraduate Medical Education

Radiation Oncology Residency Program

Program Director: Dr. Barbara Ann Millar

Associate Program Director and Acting Program Director: Ida Ackerman

Associate Program Director and Director Resident Research: Dr. Rebecca Wong

Associate Program Director: Dr. Woodrow Wells

Introduction

The Radiation Oncology Residency Program is a five year CARMS entry specialty training program fully accredited by the RCPSC. The goal of this radiation oncology program is to produce the academic clinical leadership of the future.

Participants

The trainees currently enrolled include:

PGY1

Barrett, Kate
Chiang, Andrew
Conrad, Tatiana
Hong, Eugene
Khan, Luluel

PGY2

AlDuhaiby, Eman
Caissie, Amanda
Giuliani, Meredith
Leung, Eric
Marchand, Eve-Lyne
Mohammed, Fazilat

PGY3

Ishkanian, Adrian
Han, Kathy
Chan, Elisa
Al-Omair, Ameen

PGY4

Follwell, Matthew
Myrehaug, Sten
Soliman, Hany
Yoon, Fred

PGY5

Kong, Iwa
Fenkell, Louis
Banihashemi, Behzad
Liu, Stanley
Rauth, Sarah

Structure of program

The residency program is comprised of a series of clinical attachments primarily at two fully affiliated teaching hospitals associated with the UT DRO: the University Health Network and the Sunnybrook Health Science Centre and their respective cancer programs the Sunnybrook Health Sciences Centre - Odette Cancer Centre and the Princess Margaret Cancer Program. PGY1 and PGY2 are primarily off service rotations although the trainees do get some exposure and time in radiation oncology. Residents can also elect to do up to 6 months of research training as part of the program. The clinical program is supplemented by a rich academic milieu of rounds tumour boards, case conferences and visiting professorships at both institutions.

The clinical program is supplemented by formal teaching sessions and courses in the Academic Block (PGY1 and 2), the Academic Half-Day (all years) and PGY3 Applied Physics.

Evaluations

- Written examinations in physics and radiobiology in PGY1 or PGY2
- OSCE's in PGY1 or PGY2
- Clinical Applied Physics Examination in PGY3's
- Radiation Treatment Planning Competency Examinations in PGY4 and PGY5
- Royal College Fellowship Certification Examinations at conclusion of program

Academic output

Radiation Oncology Residents presented their research at the Postgraduate Education Research Day on May 9, 2009. There were 52 abstracts submitted for peer review by our physics trainees, radiation oncology fellows and radiation oncology residents. 5/17 oral presentations and 7 of 35 poster presentations were given by radiation oncology residents.

Dr. Adrian Ishkanian, PGY3, won the W.J. Simpson Award for Academic Excellence in Research by a Resident (Supervisor: Dr. Robert Bristow) for a second time.

Dr. Adrian Ishkanian also won the overall academic excellence award for the second year.

In addition, radiation oncology residents published 15 papers, 18 abstracts, received 12 awards, had 9 oral presentations and 5 posters presented at Canadian Association of Radiation Oncology (CARO), 1 oral presentation and 5 posters at American Society for Radiation Oncology (ASTRO), and two posters at *American Society of Clinical Oncology (ASCO)* and American Association for Cancer Research (AACR) respectively.

Special activity this year

The Radiobiology Course was restructured this year under the leadership of Dr. Bradly Wouters and Dr. Robert Bristow and offered in a condensed format. Distinguished Professor Dr. Mike Joiner attended as visiting faculty for the 2009 course.

Residency Program in Radiation Oncology Physics

Program Director: Dr. Jean-Pierre Bissonnette

Site Coordinators: Dr. Jean-Pierre Bissonnette (PMH); Dr. Milton Woo (OCC)

Introduction

The Toronto Residency Program in Radiation Oncology Physics is an intensive two-year practical training program that prepares students to become future leaders in medical physics. Through clinical rotations, a research project in clinical physics and educational components, students are equipped with fundamental knowledge of the disciplines of radiation oncology and radiation therapy. Physics Residents learn to recognize, understand, and address scientific and technical problems by working directly with experienced radiation oncologists, radiation therapists and medical physicists.

The program had eight Physics Residents in 2008-2009 and expects to have ten in 2009-2010.

The Residency Program in Radiation Oncology Physics started in July 2007 by combining existing long-standing medical physics residency programs at the Princess Margaret Hospital and Sunnybrook Health Sciences Centre - Odette Cancer Centre. The goal of the joint program is to produce highly competent medical physicists who combine a comprehensive understanding of clinical radiation physics and specific knowledge of radiation therapy and radiation oncology principles and practice with enhanced leadership, research and teaching skills. On March 10, 2008, the program was accredited to the maximum of 3 years through the Committee on Accreditation of Medical Physics Education Programs (CAMPEP).

The trainees currently enrolled include (expected graduation date in parenthesis)

Karotki, Alex (September, 2009)
McNiven, Andrea (September, 2009)
McCann, Claire (January, 2010)
Rink, Alexandra (January, 2010)
Leavens, Claudia (maternity leave)
Ravi, Ananth (September 2011)
Comsa, Daria (September 2011)

Structure of the Program

The program accepts applications from qualified and highly motivated candidates with a post-graduate degree in medical physics or a related discipline. Offers have been made to five candidates to enter the program in September 2010.

The minimum program length is 2 years and includes a mix of didactic instruction, clinical rotations and clinical projects. Each resident is assigned a mentor who acts as a guide throughout the program. During the first year the residents have didactic training in Radiation Biology, Radiation Safety, Clinical Radiation Physics and Dosimetry and the Principles of Treatment Planning. There are rotations in Instrumentation, Treatment Planning and Quality Management. In the second year there are rotations in Brachytherapy and Imaging Physics, Advanced Treatment Planning and a continuation of Quality Management. One distinguishing feature of the program is that residents interact with a multidisciplinary environment involving radiation oncologists and radiation therapists during parts the Academic Block, the Applied Physics tutorials and the Interdisciplinary Rotation that follows specific patients from first clinic to treatment.

Evaluation

Resident knowledge is evaluated at regular, topical resident question and answer sessions based upon the program syllabus. To complete the program the resident must successfully pass the Peer Review A oral examination, organized by a standing provincial committee of Cancer Care Ontario. Dr. Jean-Pierre Bissonnette is a member of the Peer Review A examination committee.

In October 2008, both candidates successfully passed their Peer Review A exams

Academic output

Throughout the 2-year program the resident is expected to work one or more clinical physics projects under the supervision of a staff medical physicist. The results of this work were presented as posters during the UT DRO Research Day and also as posters and oral presentations at the meetings of the Canadian Organization of Medical Physicists, and the American Association of Physicists in Medicine.

The winner of the 2009 J.R. Cunningham award for academic excellence in research by a medical physics resident was Dr. Andrea McNiven, supervisor Dr. Kristy Brock. As a result, Dr. McNiven also received a US\$1000 travel award from the American Association of Physicists in Medicine.

Special activity this year

In 2009, the program commenced an affiliation process with the RS McLaughlin Durham Regional Cancer Centre, leading to ten resident positions for 2009-2011.

Radiation Oncology Fellowship Program

Program Director: Dr. Charles Catton

Introduction

The UT DRO Fellowship Program is one of the largest and most successful radiation oncology fellowship programs in North America, attracting excellent candidates from around the world. It has two streams: a one-year clinical research program and a two-year research program. During the one-year Clinical Research Program, fellows acquire clinical expertise in one or two radiation oncology disease sites and complete a research project. The two-year Research Fellowship Program emphasizes training in the principles and conduct of scientific research. Fellows earn advanced degrees in a relevant department at the School of Graduate Studies at UT.

Participants

2008-2009 Fellows

	Country of Origin	Supervisor(s)
Bahl, Gaurav	India	Hodgson, D. / Laperriere, N.
Cho Charles,	Canada	Dawson, L.
Chopra, Supriya	India	Ménard, C.
Chung, Caroline	Canada	Ménard, C. / Brade, A.
Chu, William	Canada	Czarnota, G. / Wong, S.
Clarke, Amanda	United Kingdom	Gospodarowicz, M.
Fitzpatrick, David	Ireland	Kim, J. / Brierley, J.
Forrest, Jennifer	United Kingdom	Thomas, G.
Goda, Jayant Sastri	India	Bristow, R.
Gómez-Iturriaga Piña, Alfonso	Spain	Crook, J.
Hoebbers, Frank	The Netherlands	Waldron J. / O'Sullivan, B.
Kassam, Zahra	United Kingdom	Gospodarowicz, M. / Ringash, J.
King, Bronwyn	Australia	Fyles, A. / Milosevic, M.
Lavoie, Caroline	Canada	Bezjak, A.
Lee, Justin	Canada	Czarnota, G.
Lee, Mark	Australia	Dawson, L.
Lim, Karen	Australia	Milosevic, M.
Mallick, Indranil	India	Waldron, J. / Kim, J.
McArdle, Orla	Ireland	Catton, P.
McCarty, Heather	Ireland	Levin, W.
Nikapota, Ashok	United Kingdom	O'Sullivan, B. / Waldron, J.
Patil, Nikhilesh	India	Chung, P. / Tsang, R.
Potter, Andrew	Australia	Wong, R.
Shaw, Mark	Australia	Catton, P. / Warde, P.
Stevens, Christiaan	Canada	Waldron, J.
Taremi, Mojgan	Canada	Bezjak, A.

Teh, Amy
Wajstaub, Sandra

Australia
Canada

Fyles, A.
Catton, P.

Structure of the Program

Fellows spend one or two years in a Research Fellowship or a Clinical Research Fellowship at either the Princess Margaret Cancer Program or the Sunnybrook Health Sciences Centre - Odette Cancer Centre. The foundation of the Research Fellowship is formal graduate training at a masters or doctoral level and requires the fellow to be accepted into graduate school. The UT DRO has developed a RO stream within the Institute of Medical Science as well as associations with the Departments of Medical Biophysics and Health Policy Management and Evaluation and the Ontario Institute for Studies in Education through UT DRO faculty cross appointments. The foundation of the Clinical Research Fellowship is practice-based experience and research supervision in the clinical and translational academic programs of the Department. This past year 28 Fellows were involved in the program at both sites, coming from Australia (6); Canada (8); India (5), Ireland (2), UK (5), Netherlands (1), Spain (1).

Academic output

The quality of their research work has been internationally recognized. Two Fellows won travel awards to present their work, and another was a finalist for the 2009 IMS poster award. Four fellows won ASCO merit awards; one won a merit award at the 2008 San Antonio Breast Conference, and another at the American Brachytherapy Society meeting. A former Fellow, Dr. Stephen Supiot received a very prestigious award when he was named the 2009 ESTRO Varian-Juliana Denekamp winner for his work at UT DRO. Four Fellows received over \$248,000 in peer reviewed funding. Fellow research made a substantial contribution to the annual Postgraduate Research Day held in May, 2009. The winner of the 2009 RS Bush for Academic Excellence in Research by a Fellow was Dr. Andrew Potter, supervisor Dr.Rebecca Wong. A fellow was also the recipient of the Best Poster by a Postgraduate Trainee: Dr. Alfonzo Gomez-Iturriaga, supervisor Dr.Juanita Crook.

Quality measures

Abstracts presented: 56

Manuscripts published: 7

Grants: PI (n=4) \$248,400

Awards: 2 International Travel Awards

4 ASCO Merit Awards

1 San Antonio Merit Award

1 ABS Merit Award

2009 ESTRO Varian-Juliana Denekamp Awardee.

Continuing Education

Director: Dr. David Wiljer

Highlights

This was a very successful year for UT DRO CE activities. Despite global economic challenges, there were modest increases in event attendance over last year. In addition, we had a 13% increase in sponsorship from our major events and a budget surplus for the first time in 5 years.

Leadership

The Departmental CE activities were led by individual course directors, with oversight provided by Dr. David Wiljer. In addition, the CE Committee provided strategic direction throughout the 2008/9 year.

CEI³ Core Curriculum

The UT DRO CEI³ is made up of a curriculum comprised of a fixed core of 3 annual elements including 1) UT DRO Rounds; 2), the Radiation Medicine Conference and 3) Target Insight, in addition to a variable program hosted by UT DRO faculty.

1) UT DRO Rounds

Coordinator: Dr. Anthony Fyles

These twice a year symposia moderated by Dr. Anthony Fyles profile the academic programs of the UT DRO, share information and ideas between the two campuses, foster new research collaborations, and stimulate inquiry.

Our Fall symposia New Developments in Brachytherapy featured:

- Dr. Ranjan Sur (Faculty at McMaster University and Juraviniski Cancer Centre) - "Thoracic Brachytherapy Program at the Juraviniski Cancer Centre in Hamilton."
- Dr. Gerald Morton – Prostate high dose-rate brachytherapy research at the Odette Cancer Centre.
- Dr. Michael Milosevic - Image-guided brachytherapy in cervix cancer: Optimized treatment for individual patients.

Our Spring symposia Recent Studies Impacting Clinical Practice featured:

- Dr. Yee Ung - PET lung cancer clinical trials in Ontario: Translating evidence based medicine to impact clinical care.
- Dr. Arjun Sahgal - Implementing a Spine Stereotactic Body Radiotherapy Program at the University of Toronto.
- Dr. Miller MacPherson - Image-guided prostate radiotherapy without implanted fiducials.

6th Annual Toronto Radiation Medicine Conference

March 6-7, 2009, The Old Mill, Toronto, Ontario

Course Directors: Amanda Bolderston and Tara Rosewell

Planning Committee: Amanda Bolderston, Tara Rosewall, Cathryne Palmer, Lisa DiProspero, Nicole Harnett, Ruth Barker, Angela Cashell, and Kathleen Conway.

137 people were present this year, including attendees and speakers from all over Canada, the United Kingdom and the United States.

This year's event featured a new research focus, partnering with the annual Radiation Therapist Research Symposium. Our scientific program included the results of research performed by therapists into professional practice, symptomology, imaging and IG-IMRT. The merging of these two events provided a wider variety of concurrent research presentations than in previous years, and allowed us to focus on this year's theme: "Inspire, Inquire, Innovate" reflecting the importance of using up-to-date evidence to inform and stimulate current clinical practice.

Keynote Speaker

Our keynote speaker was Dr. John French, Director, Clinical Operations and Research for the British Columbia Cancer Agency and the Editor in Chief of the Journal of Medical Imaging and Radiation Sciences. Dr. French spoke about the importance of research in an emergent profession, and how the growth of the Radiation Therapy profession could be supported and enhanced.

Abstract submission award winners this year were:

Best Oral Presentation: Kitty Chan, Princess Margaret Hospital

The Role of a Combined Radiation / Research Therapist in an Interventional Magnetic Resonance Imaging (MRI) Research Project for Suspicion of Locally Recurrent Prostate Cancer after External Beam Radiotherapy.

Best Poster Presentation: Carol Agapito and Jaclyn Gouin, Windsor Regional Cancer Centre
New Dosimetry Training Initiatives: Needs identification, development and implementation at the Windsor Regional Cancer Centre.

Highlights of Evaluations

- 72% of attendees who completed the evaluations felt that the event would change their practice
- 82% of attendees who completed the evaluations said they plan to attend next year
- 99% of attendees who completed the evaluations said they would recommend the conference to others

Target Insight III Conference - "Next Generation Radiation Medicine: Putting Biology and Technology to Work"

June 5-6, 2009: Sutton Place Hotel

Course Director: Dr. Anthony Fyles

Planning Committee: Dr. Robert Bristow, Dr. Philip Chan, Dr. Gregory Czarnota, Nicole Harnett, Mary Hooley, Dr. David Jaffray, Dr. Michael Milosevic, Dr. John Radwan, Dr. Yee Ung, Dr. David Wiljer and Dr. Shun Wong.

There were a total of 155 registrants with representation across Ontario, United States, United Kingdom and Australia.

The program provided an opportunity for participants to review and discuss novel imaging modalities and strategies for image guided and adaptive radiation therapy. Our five guest faculty keynote speakers covered a variety of topics including, "IMRT and Chemoradiation for Head and Neck Cancer: Pitfalls and Promises" by Dr. Rosenthal; "Image Guided Radiation Therapy for Nodal Radiation" by Dr. Tereffe; "Toward Treatment Individualization" by Dr. Parker who was named the Cancer Care Ontario Guest Lecturer and "Stem Cells in Central Nervous System Tumours" by Dr. Dirks. There were a total of 19 local faculty members who participated in this two day conference.

This continuing education event was accredited by the University of Toronto, Canadian Association of Medical Radiation Technologists and the Medical Dosimetrist Certification Board.

Other Continuing Education Activities

Advanced Education Program (AEP)

AEP now has two foundational courses: the IGRT and IMR Courses. Last November, the IGRT Education Course held its last session in a series of courses that began in October 2005, after 17 sessions, 500 attendees from all corners of the world. In addition, Cancer Care Ontario (CCO) has sponsored the development of an IMRT Education Course in partnership with PMH and UT DRO. The first 3 external sessions were held in October 2008, February and April 2009 and has hosted over 120 professionals thus far.

In addition, a research grant, entitled "From Education to Practice: Development of a Tool to Assess Change in Inter-professional Practice Behaviour and Performance through Continuing Education" (Wiljer, Harnett, Bissonette, Gillan, Kane, Catton), was short listed for the Philip Manning Research Grant in Continuing Medical Education award. However, no grant was awarded this year.

UT DRO Faculty in Continuing Education Leadership

The UT DRO Director is playing an active role in the University of Toronto CE Office, attending the monthly CE Leadership Meeting as well as the Research in Continuing Education (RICE) quarterly meetings.

Leadership Positions

Dr. Pamela Catton, Chair, Conference Planning Committee, Canadian Association of Radiation Oncology

Dr. Lee Manchul, Chair, UT Faculty Council Continuing Education and Professional Development Committee

Dr. Lee Manchul, Chair, CME Section, Northeast Group on Educational Affairs, Association of American Medical Colleges

Dr. David Wiljer, Member, Research Advisory Committee, Mayo National Consensus Conference on Continuing Education

Medical Radiation Sciences Program

Academic Director: Dr. Pamela Catton

Academic Coordinator: Cathryne Palmer

Introduction

The undergraduate Medical Radiation Sciences (MRS) Program is a second-century joint BSc/Diploma of health professional education program offered by UT DRO and the Michener Institute. This four year interprofessional degree is offered in three calendar years and is comprised of didactic, simulated and clinical courses. Three discipline specific streams are offered: Radiation Therapy, Radiological Technology, and Nuclear Medicine Technology. There were 385 students registered in 2008-2009. The MRS Program prepares students for tomorrow's professional practice, for future leadership roles and to pursue advanced graduate degrees.

Participants

2008-2009 MRS Students

Adams, Alexander
Adams, Evan
Adem, Finte
Ahmed, Farrah
Ahmed, Sabreena
Ajodha, Shannon
Akhter, Hina
Aleksi, Gentiana
Allanigue, Gayle
Alsibai, Hiba
Andani, Salmaan
Andrews, Kayla
Arrosa, Sebastian
Atwal, Sandeep
Au, Calvin
Aulakh, Mehma
Austin, Jenna
Avansi, Artin

Bach, Tam
Badiuk, Stacey
Banga, Tarndeeep
Barantseva, Anna
Barker, Marisa
Barradas, Karen
Barrette, Justin
Bhatia, Aditya
Bhatti, Michael
Biernaski, Heather
Blair, Leslie
Bodnar, Calli
Bonnar, Carolyn
Bourque, Jennifer
Bowen, Andre
Boyer, Jessica
Bracken, Allison
Breeze, Carole

Brooks, Sarah
Brothers, Nadine
Bryant, Kirsten
Bu, Hong
Bukator, Michelle
Burgess, Amy
Butt, Faria
Butt, Iram
Cai, Yong
Campbell, Marie
Celinski, Anders
Chalas, Peter
Chambers, Samantha
Chan, Angie
Chan, Carey
Chan, Crystal
Chan, Elena
Chan, Matthew

Chan, Queenie
Chan, Rosanna
Chan, Selig
Chan, Tammy
Chandrarajan, Shaline
Chang, Wing Hei
Charles, Sarann
Chau, Jessica
Chau, Joanna
Chaudhry, Hamza
Chee Hing, Stefanie
Chen, Duoduo
Chen, Feng
Chen, Susan
Chernets, Christopher
Cheung, Rebecca
Chheng, Savin
Chiasson, Ciana
Chisholm, John
Chiu, Eveline
Choi, Chonguk
Choo, Enoch
Chow, Anna
Chow, Herman
Chow, Raymond
Chow, Steven
Choy, Fiona
Chui, Derek
Chung, Kevin
Chung, Sheena
Chung, Stephanie
Coates, Kristy
Coelho, Ruvette
Cole, Colin
Cometa, Yvette
Crowe, Brandon
Croy, Charles
Cruz, Christopher
Culhane, Julia
Daly, Stephanie
De Souza, Ryan
DeGiobbi, Jennifer
Desai, Ashka
Dhoot, Raman
Di Lullo, Stefanie
Di Tommaso, Natalie
Divadalage, Nisal
Dunaevsky, Alexander

Duong, Sandra-Mac
El-Khazen, Sandra
Espinoza, Frank
Ezati, Parissa
Ferreira, Marlene
Fong, Stephen
Frazer, Jennifer
Galeano, Angelica
Gandhi, Riddhi
Gandhi, Shalmali
Ganesh, Tameshwar
Gareri, Sara
Garofolo, Mikki
Gebiso, Surafale
Ghazi, Sana
Giannotti, Michelle
Gohil, Neekita
Goyal, Rachita
Grise, Anne-Marie
Haden, Kristin
Hall, Gillian
Hamed, Eman
Hamed, Mahmoud
Hamid, Cindy
Haq, Syed Iftekhar
Hartwick, Michael
Hassan Gendil, Heba
Hawes, Jennifer
Hazell, Ryan
Heal, Alison
Hill, Carrie
Ho, Chun Hang
Ho, Crystal
Hoang, Thao
Holland, Jennifer
Hong, Tony
Hospattankar, Roshan
Hrushch, Marina
Hsiung, Li
Hui, Angela
Hum, Stephanie
Ibrahim, Nevin
Irwin, Kaitlyn
Islam, Ummekawsar
Jama, Ali
Jamal, Meher
Javed, Samina
Joutsiniemi, Tara

Kangas, Jessica
Kaur, Rajbir
Kaushal, Rishika
Kauss, Emilie
Kelly, Sara Lynn Holly
Kerstens, Taya
Keum, Mi-Hyun
Khalfan, Fatima
Khalid, Yasir
Killow, Joanne
Kilpatrick, Marlene
Kim, Anna
Kim, David
Kim, Suyeon
Knights, Cheryl
Kong, Franco
Koonstra, Kelly
Kuganantharajah,
Giruthiga
Kung, Tommy
Kwan, Derrick
Kwong, Christopher
Kwong, Grace
Lad, Sonal
Ladouceur, Benoit
Lam, Cheung
Lam, Kimberly
Lam, Max
Lam, Shirley
Lang, Nicole
Lau, Amy
Lau, Jennifer
Law, Ho Man
Le, Ken
Le Roux, Stacey
LeBlanc, Marc
Lee, Emily
Lee, Ivy
Lee, Jiwon
Lee, Ka Yee
Lee, Victoria
Lee, William
Lei, Daniel
Lei, Virginia
Lepine, Pamela
Leung, Alice
Leung, Kelly
Leung, Sandra

Lewis, Meghan
Li, Carol
Li, Frances
Li, Karla
Li, Yan
Li, Yan
Liang, Gloria Zhengning
Liavas, George
Lin, Chin-Hsu
Lin, Qi
Lin, Xiao Lu
Linay, Jarred
Liu, Yan Mei
Luo, Wen Min
Lusty, Amy
Luu, Kim
Luu, Sidney
Luy, Winnie
Mac, Sandra
Macaulay, Robyn
MacDonald, Jenna
Mach, Anna
Maclaughlin, Jamie
MacPherson, Karen
Maftei, Luminita
Mahabir, Aruna
Maiwand, Iqbal
Makela, Ashley
Man, Shei-Yee
Mansfield, Caitlin
Marchand, Joshua
Marrone, Amanda
Marson, Steven
Matthew, Natalia
Mattonen, Sarah
Mayo, Christopher
Mazhar, Komal
McAloney, David
McDougall, Kerri
Mcquillan, Richard
Medeiros, Kevin
Mella, Jonathan
Mellor, Catherine
Messner, Erica
Michalak, Adam
Mirza, Sana
Mistry, Dipan
Moaveni, Parisa

Mohamed, Sabena
Mohamed Ibrahim,
Shukri
Mohamoud, Gulaid
Mohd Naem, Azada
Mok, Lillian
Moobed, Shideh
Moolla, Nabeel
Moore, Ilyssa
Morrison, Felicia
Mottershead, Megan
Moy, Jenny
Muca, Denisa
Muhammad, Autif
Muneeb, Hira
Munir, Nosheen
Murphy, Kristina
Nagulan, Nilany
Ng, Christopher
Ng, Jennifer
Nguy, Karen
Noronha, Marissa
Nowbahari Seysan,
Niusha
O'Brien, Bridgid
Omarkhail, Muhammad
Ong, Belen
Orzolek, Evelyn
Oteiza, Nicolas
Ouellette, Amanda
Owens, Lesley
Padiachy, Melanie
Pang, Jonathan
Patel, Bharat
Patel, Hiral
Pau, Alexander
Pawson, Ashley
Peden, Lisa
Penney, Catherine
Peters, Lisa
Pineda, Danilo
Poon, Debbie
Price, Shannon
Quinn, Patrick
Ramnarine, Marie
Rankin, Jolene
Rego, Julie
Rochefford, Matthew

Rodrigo, Savani
Ross, Laura
Ryan, Lynsay
Sadikali, Zahir
Saffie, Musheer
Sajjad, Fareeha
Samim, Manija
San Diego, Trisha
San Miguel, John
Savelberg, Mary
Schwietz, Matthew
Shaikh, Shaima
Sharma, Ankur
Sherazi, Shahla
Shi, Jimmy
Singh, Jaspreet
Sirisegaram, Abby
Smith, Graham
Smith, Kevin
Somerleigh, Erin
Soulliere, Amie
Stephenson, Kelly
Strilchuk, Briana
Surendra, Vejitha
Suzal, Tore
Taher, Mohammad
Tan, Josephine
Tan, Stephanie K
Tang, Linda
Tariq, Mehwish
Teixeira, Elizabeth
Tharmarajah, Sharmila
Thompson, Dina
Thompson, Matthew
Tom, Katherine
Tompkins, Nathan
Tong, Andrew
Tran, Cindy
Tran, Jimmy
Tran, John
Tran, Sandy
Truong, Jason
Tsang, Shirley
Tse, Alvina
Tse, Melanie
Tse, Tiffany
Tung, Anita
Tynkkynen, Kelly

Uppal, Ashley
Vanasse, Magdalin
Vanderwater, Catherine
Villeneuve, Justin
Visscher, Scott
Visvanathan, Tharshini
Vuong, Chelios
Waite, Anna
Wang, Lu Ning
Wang, Yanyi
Ward, Emma
Ward, Isobel K
Whillans, Jacqueline
Wilson, Laura
Wong, Danny
Wong, Jacky
Wong, Jason
Wong, Katie Lin
Wong, Lori
Wong, Michael
Wong, Tsz Woon
Wong, Venus
Woo, Amy
Wood, Boyce
Woodbeck, Kiersten
Wrigley, Shawn
Xin, Ye
Xing, Jia
Yaghini, Vahid
Yam, Benjamin
Yesovitch, Lauren
Yeung, April
Yeung, Marco
Yip, Tony
Yiu, Wilson
Yoo, Jason
Younas, Aisha
Yu, Ling
Yue, Wen
Yuen, Alexander
Zhan, Wen
Zhang, Xuan
Zhao, Yue
Zhou, Yi Xin
Zhu, Jia
Zu, Young

Student Statistics

Enrollment	Radiological Technology	Nuclear Medicine	Radiation Therapy	Total
Class 2011	36	44	50	130
Class 2010	38	33	63	134

Graduation Numbers: (eligible to graduate November 2009)

Enrollment	Radiological Technology	Nuclear Medicine	Radiation Therapy	Total
Class 2009	37	35	59	131

Structure of the Program

This joint program combines the strengths of the Faculty of Medicine of the University of Toronto and The Michener Institute for Applied Health Sciences (Michener) and makes full use of their complementary resources and expertise. The integrated three-year curriculum aims to provide students with a broad-based theoretical and analytical foundation for their discipline-specific professional responsibilities. Graduates receive a B.Sc. in Medical Radiation Sciences from the University of Toronto and an Advanced Diploma of Health Sciences from Michener. Students receive instruction at both institutions.

Teaching faculties are drawn from both the University of Toronto and Michener. The program is designed to accommodate 130 students per year. The three-year curriculum provides students in each of the three disciplines a core curriculum of broadly based content along with discipline-specific courses and clinical practice activities. The program provides breadth and depth of knowledge and develops analytical, critical and evaluative skills. Professional values, responsibility, accountability, sensitivity and ethical attitudes towards both the consumer and health care community are emphasized. Students learn to evaluate and consider the implications of their professional actions. The clinical practicum components integrate and apply the material taught in lectures and labs, leading to the development of clinical competence. Each student is required to complete 38 weeks of full-time clinical practice.

Courses delivering knowledge and imparting skills required in common by all three disciplines comprise the core curriculum and include instruction in anatomy, clinical behavioral sciences, inter-professional collaboration, patient care, physiology, relational anatomy and research methods. Students in each discipline undertake, in addition, a set of courses focused on discipline specific material. Clinical practice and experiences at the affiliated hospital sites are specific to the discipline. The curriculum emphasizes critical thinking, evidence-based practice and problem solving in the belief that these attributes play a crucial role in the optimal delivery of health care in today's evolving health care environment.

Evaluation - National Certification Results

	Radiological Technology	Nuclear Medicine	Radiation Therapy
2004	92.7 (92.5)	78.9 (93.8)	96.9 (97.0)
2005	100.0 (95.0)	89.3 (87.1)	87.5 (87.0)

2006	84.0 (88.1)	90.6 (89.5)	97.1 (90.4)
2007	96.0 (94.2)	83.9 (82.8)	98.2 (89.2)
2008	96.9 (94.9)	81.8 (79.2)	71.7 (75.0)

Percent of students successful on the first write of the exam. National averages in brackets.

Academic output

Overall Highest Academic Standing:

Gold, Silver and Bronze awards are given to the graduates attaining the highest overall gap at the November 2008 Convocation Ceremony

Gold Medalist: Heng (Helen) Yang - Radiological Technology
 Silver Medalist: Elli Wan Fong Luy - Radiological Technology
 Bronze Medalists: Laura Taylor - Nuclear Medicine

Research Awards

University of Toronto/Michener Institute Award for Excellence in Research by a Final Year Medical Radiation Sciences Student.

Winner: Christine Hill - Radiation Therapy
 Title: "A Pilot Study: The Effect of Cone Beam Computed Tomography Image Guidance on the Accelerated Partial Breast Irradiation Technique"

Co-Supervisors: Robert Case, Hon. BSc, M.R.T. (T) & Dr. John Cho, MD, PhD

Honourable Mention: Karen Tse Radiation Therapy

Supervisor: Maureen Engel, M.R.T.(T.)

Clinical Project Awards

In each discipline the students who have the highest combined marks for Clinical Project I & II are recognized for their achievements.

Radiological Technology

Outstanding achievement in clinical project (TIE): Peter Arora & Anna Formosa

Nuclear Medicine

Outstanding achievement in clinical project: Laura Taylor
 Honourable mention: Kamandeep Basrai

Radiation Therapy

Outstanding achievement in clinical project: Timothy Yan
 Honourable mention: Rachel Woo

Special Activity this Year

Course development and approvals for the redesigned curriculum continued for the 2008/2009 academic year. The redesign of the curriculum has really focused on utilizing various teaching and learning techniques, and has been structured so that courses are integrated and cumulative. In the Fall 2008 students from all three disciplines completed a

full course entitled “Integrated CT Imaging Theory & Practice”. The MRS Program continues to be the only program in Ontario educating undergraduate students to this level of practice.

This past winter saw a collaboration between the MRS Program and the Department of Physiology. Traditionally taught by faculty in the lecture format, the physiology course is now delivered online giving students more flexibility in terms of time and location, and allows self-directed learning within a semi-structured framework.

Summer 2009 saw the launch of the clinical simulation semester. Students participated in both interprofessional and discipline specific simulation. The purpose of the simulation semester is to prepare students for entry into the clinical component of the Program. Through case scenarios, with and without standardized patients, peer/self-assessment tools, and a variety of other assessments students have the opportunity to consolidate and apply their knowledge and skills prior to going to clinic. The students, ultimately, must demonstrate a specific standard of performance before proceeding into the clinical environment.

There has been increased representation this year on several University of Toronto working committees including Interfaculty Curriculum Committee, Health Sciences Committee on Emergency Preparedness, Faculty of Medicine Distributed Education and Physician Assistants Steering Committee.

Equity Report

Program Director: Fei-Fei Liu

Since the initial appointment of the Equity Officer within UT DRO in 2007, a website has been established, hosted on the UT DRO webpage, informing the community of the existence of this position, and accessibility to the Equity Officer to discuss any issues of concern.

Important information is provided on this webpage, including relevant dates for religious observances, the University of Toronto Human Resources and Equity Annual Report, the University of Toronto Employment Equity Report, and the Ontario Human Rights Code.

There has also been co-ordination with counterparts within the Faculty of Medicine to ensure streamlining and harmonization of Equity and Professionalism activities. To that end, the UT DRO Equity Officer has been collaborating with Dr. David McKnight, the Associate Dean of Equity and Professionalism in the Faculty of Medicine, at the University of Toronto on developing programmatic activities promoting Diversity and Professionalism within UT DRO.

Research Report

The UT DRO research program continues to grow and consolidate its profile as one of the pre-eminent multidisciplinary radiation medicine research programs in the world. The following report summarizes the areas of progress, new initiatives, and benchmarks of success in 2008-2009.

Research in UT DRO is conducted in all domains of radiation medicine; including radiation physics, therapy and nursing. The scope includes clinical research, quality of life and health services and outcomes research, basic and translational studies related to radiation response, and advanced high-precision radiation and imaging. Research is performed in collaboration with the other clinical and basic science departments, extra-departmental units including hospital research institutes, both within and outside of the University of Toronto.

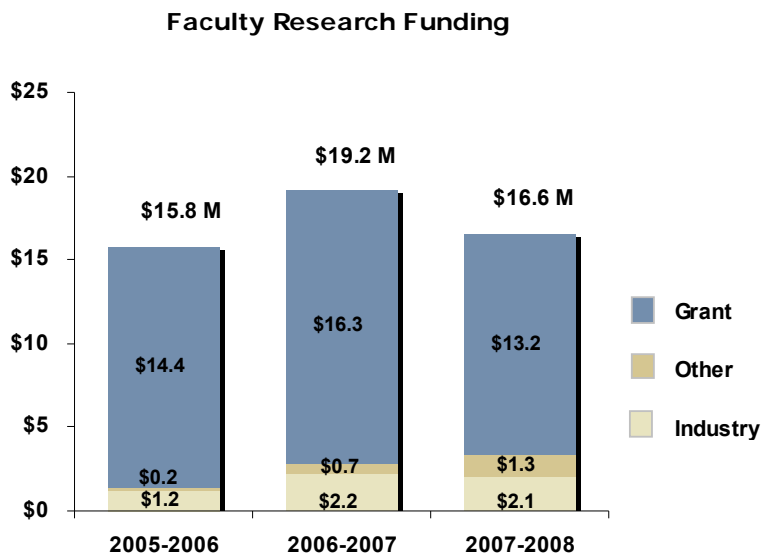
Research Highlights

- Dr. Fei-Fei Liu and co-applicants were successful in obtaining a renewal of their CIHR Training Grant “Excellence in Radiation Research”
- Dr. Thomas Purdie received a grant from the Canadian Breast Cancer Research Alliance for “Automating the breast radiation therapy process to improve efficiency and reduce treatment related toxicity”.
- Dr. Gregory Czarnota, 2009 Cancer Care Ontario Research Chair for cancer experimental therapeutics and cancer imaging.
- Dr. Bradley Wouters received the prestigious Michael Fry Award at the 54th Annual Meeting of Radiation Research Society.
- Dr. Alex Vitkin and Dr. Wilfred Levin received a grant from the Collaborative Health Research Projects (CHRP) partnership program (operated jointly by CIHR and NSERC), for their project entitled “Optical coherence tomographic imaging for monitoring radiation complications in the colon”.
- Dr. Gillian Thomas received the International Gynecologic Cancer Society Award for Excellence in "research and teaching, mentorship and promoting international collaboration, and her leadership contribution to the IGCS”.
- Dr. David Jaffray and Dr. Alex Vitkin along with Dr. Ralph DaCosta, were awarded a CIHR Operating Grant “Probing the Temporal Dynamics of Tumor Cell Kill and Vascular Damage in Radiation Therapy Using Optical Molecular Imaging”.
- The PMH Hypoxia Program (Drs. Robert Bristow, Bradley Wouters, Richard Hill, David Jaffray, Ivan Yeung, Marianne Koritzinsky, Michael Milosevic, Anthony Fyles) were successful in renewing their Terry Fox funded program project.

- Dr. Stanley Liu was selected to receive a 2009 ASCO Cancer Foundation Young Investigator Award for his fellowship research “Identification and characterization of the cellular mechanisms underlying DLL4 Notch pathway mediated tumor radioresistance.”
- Dr. Jean-Pierre Bissonnette, received funding from the Canadian Cancer Society (Ontario Division) for “Prospective study of 4DCT and 4DPET imaging during a course of radical radiotherapy to monitor tumour response and predict treatment outcome for non-small cell lung cancer”.
- Dr. Robert Bristow for his OICR grant ‘Genomic Alterations and DNA Repair As Predictors Of Intermediate Risk Prostate Cancer Radiotherapy Outcome’.

Indicators of Success

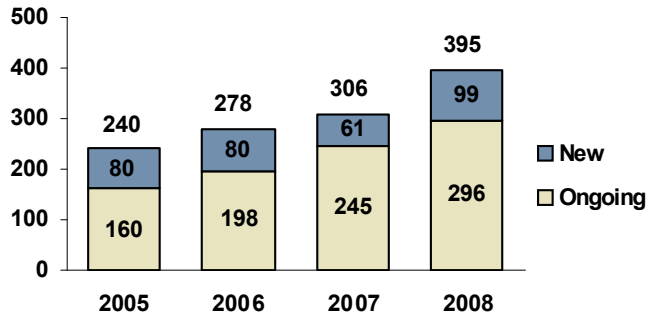
Yearly Research Funding



Active Protocols

Summary

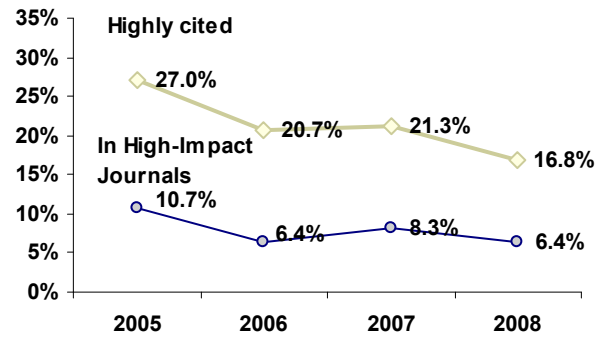
- Although the total number and amount of awards decreased in 2007/08, funding over the 3-year review period increased from the previous review. The average amount awarded per funded investigator also increased from the previous review to \$1.2M from \$1.0M.
- Over the 2005-2008 review period, U of T DRO investigators had increasing numbers of ongoing and total active approved protocols.



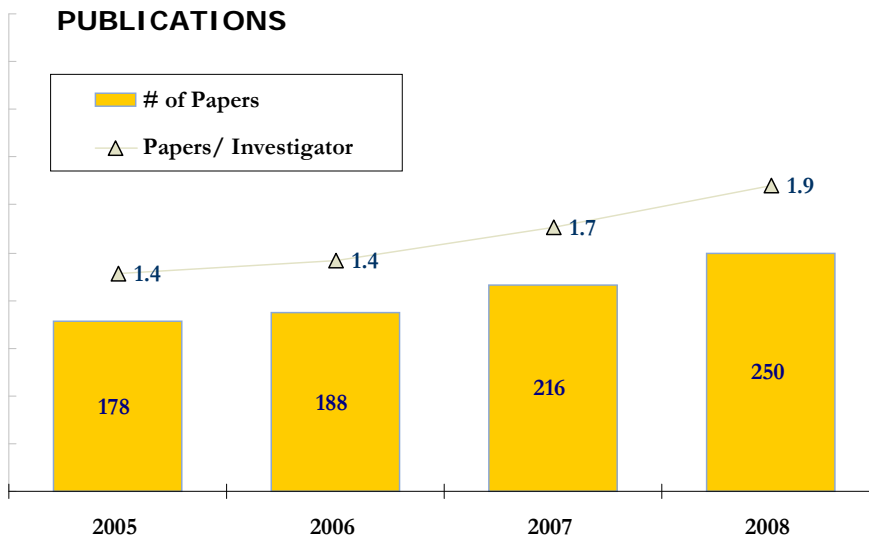
Comparison of Publication Record with Peers
(3 Full Year Period 05-08)

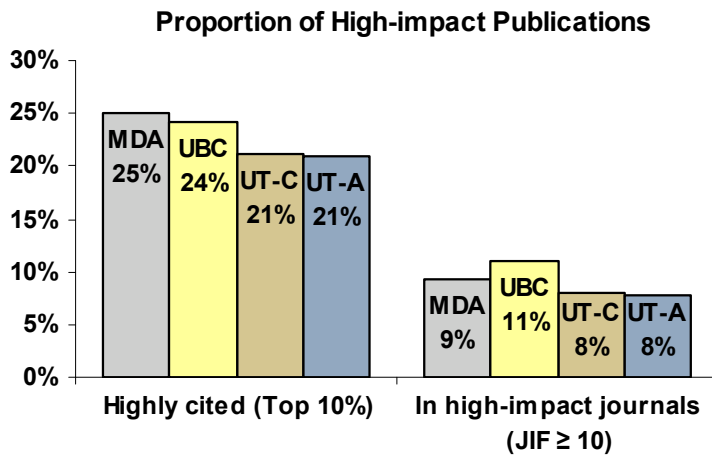
Institution	Papers	Citations (June 2009)	Papers per PI per year	Cites per Paper	Proportion cited
U of T Core†	826	8165	2.0	9.9	81.8%
U of T All*	832	8210	1.6	9.9	81.7%
MD Anderson	589	6691	3.5	11.4	85.6%
UBC	162	1757	0.8	10.8	84.6%

UTDRO High-impact Publications: 2005-2008



PUBLICATIONS





Summary of Bibliographic Review

- U of T DRO investigators published an increasing number of papers annually over the last three years, twice more than UBC but lower than its peers from MD Anderson.
- Though citation and publication rates were unchanged from 2008, U of T DRO investigators demonstrated relatively lower publication impact in this review, both in terms of journal impact, and proportions of cited and highly cited papers. This is likely due to an increasing number of publications in lower impact journals. The difference, however did not reach significance.

Research Objectives for 2008-2009

- Increase collaboration with new research partners
- Expand translational research programs to move new discoveries to practical applications in patients
- Foster recruitment to support DRO research goals
- Increase number of peer-reviewed publications in high-impact journals

Research Grants

Alibhai S, Duff Canning S, Fleshner N, Krahn M, Naglie G, Tannock I, Tomlinson G, **Warde P**. A 2-year follow-up study of the health effects of androgen deprivation therapy in men with non-metastatic prostate cancer. National Cancer Institute of Canada (NCIC). \$338,946, 2007-2010.

Au HJ, **Brade A**. A phase II study of AZD0530 as first line treatment in patients with metastatic or locally advanced gastric carcinoma. National Cancer Institute of Canada (NCIC) Cancer Therapy Evaluation Program. \$175, 000, 2008-2009.

Barbera L, Howell D, Seow H, Husain A, Sussman J, Viola R, Atzema C, Earle C. Policy Advisors: Dudgeon D, King S. Symptom severity, performance states and resource negotiation in cancer patients. Ontario Institute for Cancer Research (OICR). \$182,716, 2009.

Barnwell S, Tullio Pow S, **Nyhof-Young J**. A victim of fashion: Modular bag with therapeutic arm sling for breast cancer survivors with lymphedema. Ontario Partnership for Innovation in Commercialization, Canadian Intellectual Property Office, Government of Canada (\$10,000), Technology Transfer Office of Research Services at Ryerson University (\$5,000): \$15,000, 2007-2009.

Barzda V, Peshko I, **Rowlands JA**. Cancer tissue diagnostics with non-linear multimodal microscopy. Ontario Centres of Excellence (OCE), Champions of Innovation. \$149,850, 2008-2009.

Barzda V, **Rowlands JA**. Nonlinear microscopy imaging for clinical diagnostics. Natural Sciences and Engineering Research Council (NSERC), Strategic Project Grant. \$384,713, 2008-2010.

Bauch C, **Paszat L**, Gilca V, Krahn M, Mai V, McLachlin C, Pham B. Cervical cancer screening in the era of HPV vaccination: using mathematical and economic models to guide screening policy. Canadian Institutes of Health Research (CIHR). \$226,000, 2008-2011.

Baxter N, Del Giudice L, **Paszat L**, Rabeneck L, Sutradhar R, Urbach D. The young adult survivors of cancer. Canadian Institutes of Health Research (CIHR). \$413,088, 2008-2011.

Bayley A, Rosewall T, Dinniwell R, Craig T. Automatic segmentation of target organs and normal tissues for prostate cancer. Abbott-CARO Uro-Oncologic Radiation Award (ACURA). \$32,500, 2008.

Bell M, **Nyhof-Young J**, Sale J, Sargaent J, Tugwell P, Venoit P, et al. Peer to peer mentoring: Facilitating individuals with early inflammatory arthritis to manage their arthritis. Canadian Arthritis Network (CAN) Strategic Research Program Grants. 2009 SRP Research Module. \$240,000, 2009-2011.

Bissonnette JP, Bezjak A. Prospective study of 4DCT and 4DPET imaging during a course of radical radiotherapy to monitor tumour response and predict treatment outcome for non small cell lung cancer. Canadian Cancer Society, Ontario Division. \$238,764, 2009-2011.

Bissonnette JP, Sun A, Purdie TG. Prospective study of 4DCT and 4DPET imaging during a course of radical radiotherapy to monitor tumour response and predict treatment outcome for non-small cell lung cancer. Canadian Cancer Society, Ontario Division. \$238,764, 2009-2010.

Brade A, Ménard C. A phase I study of sunitinib and stereotactic radiation in patients with 1-4 brain metastases. Pfizer. \$140,000, 2009.

Brade A, Oza A, Siu L, Chen E, Milosevic M. A phase I dose escalation study of concurrent low dose radiation with sorafenib in three anatomically based, independent cohorts (thorax, abdomen, pelvis) – the TAP study. Bayer Canada. \$225,000, 2007-Present

Brade A, Shepherd F, Bezjak A. A phase I/II study of concurrent pemetrexed/cisplatin/radiation in stage IIIA/B non-small cell lung cancer. Eli Lilly Canada. \$263,500, 2005-2009.

Brade A. A phase I-II clinical study of nimotuzumab (TheraCIM h-R3) in combination with external radiotherapy in NSCLC stage IIB, III and IV patients unsuitable for radical therapy. YM Biosciences Mississauga. \$520,000, 2005-2009.

Bradley G, Chugh D, Nyhof-Young J. Computer assisted learning for teaching oral pathology to dental students. Information Technology Course Development Fund. \$29,534.10, 2006-2009.

Breen S, Kim J. A pilot study of 18FDG PET-CT kinetics analysis in Head and Neck Squamous Cell Carcinoma (HNSCC) with potential implications for target volume delineation and adaptive radiotherapy. Spatio-Temporal Targeting and Amplification of Radiation Response (STTARR). \$40,000, 2009.

Bristow R, Jaffray DA, Milosevic M. Spatio-Temporal Targeting and Amplification of Radiation Response (STTARR) Innovation Centre: Imaging and animal support infrastructure enhancement. Canadian Foundation for Innovation Grant (CFI-Infrastructure), Core I Leader: Cell Imaging Program \$1,850,000, Infrastructure Grant \$11,418,194, 2004-2009.

Bristow R, Lam W, Milosevic M, Jurisica I. Genomic alterations and DNA repair as predictors of intermediate risk prostate cancer radiotherapy outcome. Ontario Institute for Canada Research (OICR). \$579,846, 2009-2012.

Bristow R, Bapat B, van der Kwast T, Trachtenberg J. DNA repair inhibition in prostate cancer cells and individualized therapy. The Prostate Cancer Research Foundation of Canada. \$60,000, 2008-2010.

Bristow R, Goda J, **Catton C**, **Craig T**. A pilot study of gamma H2AX DNA repair Foci kinetics in peripheral blood lymphocytes during prostate cancer radiotherapy. Abbott-CARO Uro-Oncologic Radiation Award (ACURA). \$37,100, 2009-2010.

Bristow R, **Hill R**, Hedley D, **Milosevic M**, **Fyles A**, **Yeung I**. PMH Hypoxia Program Project grant section 3: Hypoxia-mediated genetic instability: The role of DNA-dsb repair. National Cancer Institute of Canada (NCIC), Terry Fox Foundation. \$5,262,165, 2004-2009.

Bristow R. Basic and translational studies of DNA damage and repair as relates to p53. National Cancer Institute of Canada (NCIC) and the Canadian Cancer Society (CCS). Salary Support Award. \$75-85,000, 2004-2010.

Bristow R. The p53 protein and DNA damage recognition. National Cancer Institute of Canada (NCIC). \$146,178, 2006-2011.

Brock K. Biomechanical modeling for high precision radiotherapy design, adaptation, and assessment. National Cancer Institute of Canada (NCIC), Terry Fox Foundation. \$281,904, 2006-2009.

Brock K. Cancer Care Ontario Research Chair. Cancer Care Ontario (CCO). \$500,000, 2008-2013.

Brock K. Investigation of the inclusion of motion and deformation in dose calculations for external beam radiotherapy. Dean's Fund, University of Toronto. \$9,801.40, 2005-2010.

Brock K. Medical Imaging Instrumentation and Software Platform (IPP-MIIS). Ontario Institute for Cancer Research (OICR). \$382,000, 2008-2012.

Brock K. Validation and comparison of deformable image registration algorithms. Connaught New Staff Matching Grant, University of Toronto. \$40,000, 2006-2009.

Brock K, **Bezjak A**, **Craig T**, **Dawson LA**, **Jaffray DA**, **Sharpe MB**. Dynamic multi-organ anatomical models for hypofractionated radiotherapy design and delivery. National Institutes of Health (NIH). US \$814,351, 2008-2012.

Caldwell CB, **Mah K**, **Poon I**. Automated delineation of targets for radiation treatment of head and neck cancer based on computerized analysis of FDG-PET/CT images. Canadian Institute of Health Research (CIHR). \$47,061, 2009.

Catton C, Lukka H, **Warde P**, Levine M, Julian J, Gafni A, Bauman G, Partliament M, Wu J, Pickels T, Souhami I, Bahary JP A randomized trial of a shorter fractionation schedule for localized carcinoma of the prostate. Canadian Institutes of Health Research (CIHR). \$2,209,971, 2005-2012.

Catton P, **Wiljer D**. eLLICSR: The electronic living laboratory for international cancer survivorship research: A cancer survivorship initiative of the Princess Margaret Hospital. Canadian Foundation for Innovation (CFI). \$1,200,000, 2007-2009.

Cheung P, Morton G, Loblaw DA, Mah K, Pang G, Davidson M, Chu W, **Ménard C, Thomas G, Vesprini D, Chung H**, Cunningham C, Chen A. Stereotactic Body Radiotherapy (SBRT) boost to mimic High-Dose Rate (HDR) brachytherapy boost for intermediate risk prostate cancer: A Phase 1 Study. Abbott-CARO Uro-Oncologic Radiation Award (ACURA). \$26,504, 2009-2010.

Cheung P, Loblaw DA, Morton G, Pang G, Zhang L. Matched cohort study of accelerated versus conventionally fractionated radiotherapy for localized high risk prostate cancer. Sanofi-Aventis. \$619,000, 2007-2009.

Chopra S, **Ménard C, Milosevic M, Bristow R**, Haider M, Foltz W. Multiparametric MRI based evaluation of hypoxia in men with prostate cancer. Abbott-CARO Uro-Oncologic Radiation Award (ACURA). \$43,000, 2008-2009.

Chow E, Clemons M, Kerba M. Canadian-led international validation of the European Organization for Research and Treatment of Cancer brain module (EORTC-QLQ-BN20) for assessing quality of life in patients with brain metastases. Canadian Institutes of Health Research(CIHR), Institute of Health Services and Policy Research (IHSPR). \$98,958, 2009.

Chow E, Clemons M, Wu J, **Bezjak A**, Brundage M, Yee A, Bottomley A, Velikova G, Hoskin P. Development of a Canadian-led international bone metastases module to accompany European organization for research and treatment of cancer quality of life group core questionnaire (the EORTC QLQ-C30) for future clinical trials in patients with bone metastases. National Cancer Institute of Canada (NCIC). \$271,483, 2005-2008.

Chow E, Loblaw DA, Wong R, Wu J, DeAngelis C. A randomized phase III double blind study of dexamethasone versus placebo in the prophylaxis of radiation-induced pain flare following palliative radiotherapy for bone metastases. National Cancer Institute of Canada (NCIC) Clinical Trails Group. \$768,000, 2009-2011.

Chow J, Islam M, Brock K, Jaffray DA. A morphologically accurate Monte Carlo radiation dose engine. Natural Sciences & Engineering Research Council Canada (NSERC). \$225,000, 2007-2012.

Chow JCL. Determination of the mucosal dose using Monte Carlo method in radiation therapy. Dean's Fund, University of Toronto. \$10,000, 2009-2013.

Chung C, **Ménard C, Brade A**, Zadeh G, Campheusen K, Kassner A, Foltz W. Introducing sunitinib with radiotherapy and temozolamide in an xenograft glioblastoma model. Canadian Association of Radiation Oncology (CARO) RACZER Award. \$19,400, 2008-2009.

Chung H, Czarnota G, Morton G, Sugar L, Yaffe M, Nam R. Correlative study of ultrasound-based elastography imaging with whole-mount histopathology in men with prostate cancer. Abbott-CARO Uro-Oncologic Radiation Awards (ACURA). \$36,458.50, 2009-2010.

Classen C, Ferguson S, **Barbera L, Wiljer D**, Chivers M, Urowitz S. Development of an internet-based support group for sexual problems due to gynecological cancer. National Cancer Institute of Canada (NCIC). \$35,000, 2008.

Coburn N, **Paszat L**, Rabeneck L, Sutradhar R, Gagliardi A, Law C, Helver L, Swallow C, Quan ML, McLeod R. Improving gastric cancer survival: Development and measurement of quality indicators using the RAND/UCLA appropriateness method and population-based data analysis. National Cancer Institute of Canada (NCIC). \$552,466, 2008-2011.

Courneya K, **O'Brien P**, Brundage M, Dongsheng T, **Livingstone M**, Kaugustson, Au H-J, Meyer Sarascil R, Pollak M, Vardy J, **Wong R**. A phase III study of the impact of a physical activity program on disease-free survival in patients with early stage colon cancer: A randomized controlled trial (CHALLENGE). National Cancer Institute of (NCIC) Canada Clinical Trials Group. Symptom Control Committee Coordinator. \$2,405,000, 2009.

Czarnota G. Ministry of Research and Innovation (MRI) Early Researcher Award. \$150,000, 2009.

Czarnota G. Cancer Care Ontario (CCO) Research Chair, Imaging and Experimental Therapeutics Cancer Care Ontario. \$500,000, 2009-2014.

Czarnota G, Brade A, Kolios M, Burns PN, Foster SF, **Wong S**. Assessing tumour responses to radiation: Role of the vasculature examined longitudinally using high-frequency ultrasound. Cancer Imaging Network of Ontario (CINO). \$132,400, 2007-2009.

Czarnota G, Burns P, **Wong CS**. Ultrasound molecularly-targeted microbubble-potentiated enhancement of prostate cancer responses to radiation. Canadian Association of Radiation Oncologists (CARO). \$25,000, 2007-2009.

Czarnota G, Wong CS, Burns PN. Ultrasound microbubble-potentiated enhancement of breast cancer responses to radiation. CDMRP Programme, US Army Breast Concept Grant. US \$102,453, 2007-2008.

Czarnota G, Wong CS, Burns PN . Ultrasound microbubble-potentiated enhancement of prostate cancer radiation responses. Congressionally Directed Medical Research Program (CDMRP), US Army Prostate Cancer Idea Grant. US \$390,498, 2007-2011.

Czarnota G, Wong CS, Burns PN, Foster SF. Ultrasound analyses of vascular effects of radiation. Canadian Breast Cancer Foundation, Ontario Chapter. \$428,000, 2007-2010.

Czarnota G, Wong CS. Ultrasound microbubble enhancement of bladder cancer responses to radiation. American Association for Cancer Research (AACR), Henry Sheppard Translational Research Grant. US \$250,000, 2009-2011.

Czarnota GJ, Karshafian R. Novel microbubble enhancement of radiation effect: normal tissue effects. Technology Transfer Toronto, Ontario Commercialization Research Program (ORCP). \$50,000, 2008-2009.

Czarnota GJ, Kolios MC. Low-frequency detection of apoptosis. Technology Transfer Toronto, Ontario Commercialization Research Program (OCRCP). \$50,000, 2008-2009.

Czarnota GJ, Wong CS, Burns P, Karshafian R. Novel molecularly-targeted microbubbles for radiosensitization. Canadian Association of Radiation Oncology (CARO), RAZCER Grant Program. \$25,000, 2008-2012.

Czarnota GJ, Wong CS. Ultrasound microbubble enhancement of bladder cancer responses to radiation. American Association for Cancer Research (AACR), Henry Shepard Translational Research Grant. \$250,000, 2009-2011.

Czarnota GJ. Diffuse optical spectroscopy tomographic device for monitoring neoadjuvant chemotherapy. Sunnybrook Health Sciences Centre Foundation. \$300,000, 2008.

DaCosta R, **Vitkin A**. Probing the temporal dynamics of tumor cell kill and vascular damage in radiation therapy using optical molecular imaging techniques. Canadian Institutes of Health Research (CIHR). \$87,000, 2009-2012.

Dawson L, Brade A. A phase I/II study of sorafenib and radiation in patients with liver metastases. Bayer Canada. \$255,000, 2008-2009

Dawson L, Brade A. A phase I/II study of sorafenib and radiation in patients with unresectable hepatocellular carcinoma. Bayer Canada. \$255,000, 2008-2009.

Dawson LA, Dinniwell RE, Kim J, Ringash J, Craig T, Lockwood G. Image guided radiotherapy for primary and metastatic liver cancer. National Cancer Institute of Canada (NCIC). \$159,714, 2007-2009.

Dawson LA, Kim T, Kim J, Knox RJ, Dinniwell R, Brierley J, Wong R, Ringash J, Yeung I. Phase I study of sorafenib and radiation therapy for liver metastases. Bayer. \$286,000, 2008-2011.

DiMarco C, Bray P, Lipa J, Bray P, Covvey D, Cowan D, DiCiccio V, Harris R, **Wiljer D**. Natural language generation tools and methodologies for personalized e-health education systems. Bell University Labs (BUL). \$50,000, 2008.

DiMarco C, **Wiljer D**, Leonard K, Covvey D, **Jaffray DA**. Self-managed access to personalized health information through automated generation of tailored diagnostic reports from electronic health records. Natural Sciences & Engineering Research Council Canada (NSSERC). \$50,000, 2008.

Dinniwell R. Multimodal imaging for response assessment in locally advanced breast cancer. Princess Margaret Hospital Locally Advanced Breast Cancer Pilot Grant. \$8,500, 2009.

Durocher D, Wouters B, Sicheri F, Hakem R, **Bristow R, Liu F-F, Koch A.** Cluster II. cancer, DNA damage and stress response. Terry Fox Research Institute (TFRI), Ontario Institute for Cancer Research (OICR) Seed Funding, Ontario Node. \$125,000, 2008.

Fierini D, Himel D, Farrell D, Gowan S, **Nyhof-Young J.** Survey of user satisfaction of a symptom-focused cancer cookbook, "Goes Down Easy". UHN Allied Health Research Committee Grant. \$486.24, 2008-2009.

Foster S, Beanlands R, Caldwell C, Carson JLL, **Chow BJW,** Cunningham C, **Czarnota G,** JN Dasilva, R De Kemp, Drangova M, A Fenster, PJ Foster, RM Henkelman, D Holdsworth, J Lacefield, Ting-Yim Lee, Reznik A, **Rowlands JA,** TD Ruddy, BK RuttOntario Preclinical Imaging Consortium. Ontario Research Fund, Research Excellence Funding. \$7,381,985, 2009-2014.

Foster FS, Bronskill MJ, Burns P, Henkelman RM, Martell A, Stanisz G, Plewes DB, **Rowlands JA,** Yaffe MJ. Medical imaging for cancer. National Cancer Institute of Canada (NCIC), Terry Fox Program Project. \$7,583,990), 2006-2011.

Glover M, Koch A, Durocher D, Weinfeld M. The structural biology of DNA repair. National Cancer Institute of Canada (NCIC). \$142,850, 2004-2009.

Gould J, **Catton P.** Ascertaining the post-treatment program, service and network formulation needs of breast cancer survivorship providers in the Toronto Central Local Health Integration Network. Canadian Institute of Health Research (CIHR). \$18,967, 2008.

Gregorio N, **Dinniwell R.** Non-invasive assessment of lymphatic circulation in women with locally advanced breast cancer. Princess Margaret Hospital Locally Advanced Breast Cancer Pilot Grant. \$8,500, 2009.

Grunfeld E, **Paszat L,** Levine M, Julian J, Maunsell E, Beaulieu M-D, Coyle D, Sussman J, del Guidice L, Wiernikowski J, Dent S, Grenier R, Robidoux A, Schreuer D, Sisler J. A randomized trial of a patient-centred strategy to facilitate transition of breast cancer survivors' routine follow-up from specialist to primary care. Canadian Breast Cancer Research Alliance (CBCRA). \$594,362, 2006-2010.

Hall S, Groome P, **O'Sullivan B,** Irish J, Gilbert R, Gregg R, Meyer R. The Ontario clinical practice guideline #5-6a: The impact on physicians, practice and patients. National Cancer Institute of Canada (NCIC), Canadian Cancer Society, Ontario Division. \$300,000, 2008-2009.

Harnett, N, Catton P. Clinical specialist radiation therapist demonstration project - phase I extension 2. Ministry of Health and Long Term Care Grant. \$504,310, 2009-2010.

Hill R, Bristow R. Assessing skin exposure by measuring DNA damage in skin cells. National Institute of Allergy and Infectious Diseases (NIAID). US \$171,781, 2005-2010.

Hill RP, Hope A. Improved radiation induced lung toxicity prediction with linked pre-clinical/clinical models and biomarkers. National Cancer Institute of Canada (NCIC). \$430,913, 2008-2011.

Hill RP, Yeh W-C, Moulder J. Mitigating and treating the effects of radiation in lung tissue. National Institute of Allergy and Infectious Diseases (NIAID) Centers for Medical Measures against Radiation. \$1,259,165, 2005-2011.

Hill RP, Yeh W-C, Yeung IW, Van Dyk J. Radiation-induced lung damage: Volume-effects & mitigation. Canadian Institutes of Health Research (CIHR) 69,530, 2005-2009.

Hill RP, Wouters B. Hypoxia in tumours: Clinical and experimental studies. National Cancer Institute of Canada (NCIC), Terry Fox Project Grant. \$4,986,535, 2009-2014.

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Hill RP. Probing the temporal dynamics of tumor cell kill and vascular damage in radiation therapy using optical molecular techniques. Ralph Da Costa, Ontario Cancer Research Network. \$145,000/year, 2009-2012.

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Jaffray DA. On-line perfusion measurement with contrast enhanced cone-beam CT in radiation therapy-toward clinical implementation. Canadian Institute of Health Research (CIHR). \$499,790, 2009-2013.

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Jaffray DA. Building the UHN advanced therapeutics research platform. Canadian Foundation for Innovation (CFI) Research Hospital Fund. \$92,255,965, 2008-2012.

Jaffray DA. Imaging for clinical trials platform. Cancer Imaging Pipeline Platform, Ontario Institute for Cancer Research (OICR). \$1,700,000, 2008-2012.

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Lammering G, **Wouters B**. The role of the variant EGFR VIII in response to radiation. Dutch Cancer Society (KWF). (Euro) 434,700, 2006-2010.

Lee J, **Czarnota GJ**. Novel microbubble radiosensitization for prostate cancer. Abbott-CARO Uro-Oncologic Radiation Award (ACURA). \$22,000, 2008-2012.

Levinson W (PI), Laupacis A, Redelmeier D, Deber R, Hux J, Manuel D, **Paszat L**, et al. An integrated training program in health and social science research to improve the health of marginalized populations. Canadian Institutes for Health Research (CIHR). \$1,350,000, 2003-2009.

Lipscombe L, **Paszat L**. Diabetes risk following breast cancer. Canadian Diabetes Association. \$82,206, 2007-2009.

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Liu F-F, Gilbert R, Gullane P, Hui A, **O'Sullivan B**, Perez-Ordenez B, Pintilie M. Developing a predictive gene set for HNSCC patients. Ontario Institute for Cancer Research (OICR). \$470,796, 2008-2011.

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Liu G, Jurisica I, Narod S, **Wong R**. Molecular epidemiology of esophageal cancer survival. Canadian Institute of Health Research (CIHR). \$689,229, 2007-2012.

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Loblaw DA, Fleshner N. Educational grant for CME event, new insights into old controversies in prostate cancer. AstraZeneca. \$15,500, 2008.

Loiselle C, **Wiljer D**, Friedman A. Oncology interactive navigator: A pilot study. Canadian Partnership Against Cancer (CPAC) Grant. \$24,052, 2009-2010.

Luke R, Attack L, **Catton P**, Wathen N, **Wiljer D**, Friedman A, Neill S, O'Grady L, **Nyhof-Young J**, Secord S, Treviranus J, Urowitz S. Advanced Patient Education for Cancer Survivorship (APECS): Using the internet to build and maintain a community of survivors. Social Sciences and Humanities Research Council of Canada (SSHRC). \$142,900, 2007-2011.

Luke R, Attack L, **Catton P**, Friedman A, Neil S, **Nyhof-Young J**, O'Grady L, Secord S, Treviranus J, Urowitz S, Wathen N, **Wiljer D**. Advanced patient education for cancer survivorship APEXS. Social Sciences and Humanities Research Council of Canada (SSHRC). \$142,900, 2007-2009.

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McGowan T. Study E.3.30.24 of the IAEA, Vienna Austria: Optimizing treatment of cervix cancer using radiotherapy and analysis of virally associated cellular resistance. Cervix (4-arm randomized trial testing chemo-radiation plus HDR brachytherapy, for survival, toxicity and tumour markers). US \$300,000.00, 2005-2010.

Ménard C, Yeung I. MRI Guided and tumor targeted HDR brachytherapy for recurrent prostate cancer. Natural Institute of Health. \$272,240, 2007-2009.

Ménard C, Brock K, Chung P, Damyanovich A, Evans, A, Masoom H, **Jaffray DA**, Lockwood G. MRI guided and tumor targeted HDR brachytherapy for recurrent prostate cancer. National Institute of Health (NIH). \$274,000, 2008-2010.

Ménard C, Brock K. Integration of diagnostic and interventional MRI for the study of persistent prostate cancer after external beam radiotherapy. Department of Defense Prostate

Cancer Research Program, Department of Defense Congressionally Directed Medical Research Program (CDMRP) FY05. US \$294,600, 2005- 2008.

Ménard C, Chung P, Catton C, Bayley A, Craig T. Advanced image guidance will improve toxicity outcomes for patients with prostate cancer: A prospective study. Abbott-CARO Uro-Oncologic Radiation Award (ACURA). \$19,300, 2007-2009.

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Ménard C, Sun A. Hippocampal radiation exposure and memory: A pilot study. Brain Tumour Foundation. \$25,000.00, 2007-present.

Ménard C. Hippocampal radiosurgery exposure and memory. Brain Tumor Foundation of Canada. \$22,950, 2007-2009.

Ménard C. IG-IMRT after radical prostatectomy. Royal Victoria Hospital Foundation – Motorcycle Ride for Dad Grant. \$40,000, 2007-2009.

Ménard C. Individualized therapy for patients with prostate cancer by integrating interventional MRI in the radiotherapy planning process. Canadian Institutes of Health Research (CIHR) New Investigator Award. \$300,000, 2007-2012.

Milosevic M, Brade A, Moore M, Tannock I, Sridhar K, **Breen S, Warde P, Catton C, Bayley A, Chung P.** A phase I/II study of sorafenib and radiation in patients with advanced renal cell carcinoma and symptomatic bony metastases. Bayer Canada. \$228,000, 2008-present.

Milosevic M, Bristow R, Lam W, Jurisica I. Genomic alterations and DNA repair as predictors of intermediate risk prostate cancer radiotherapy outcome. Ontario Institute for Cancer Research (OICR). \$193,282, 2009-2011.

Milosevic M, Catton P, Devins G, Gallie B, **Hodgson D,** Howell D, Jadad A, Luke R, Rodin G, **Wiljer D.** The electronic living laboratory for interdisciplinary cancer survivorship research: Bridging the gap for chronic cancer care (ELLICSR). Canadian Foundation for Innovation (CFI), Ontario Innovation Trust. \$1,199,700, 2007-2009.

Milosevic M, Kohandel M, Sivaloganathan S, Oza A, **Jaffray D, Hill R, Yeung I.** Dynamics of multi-modal anti-angiogenic, anti-vascular and cytotoxic therapies: Potential for significant clinical impact. Collaborative Health Research Program (CHRP) of Canadian Institutes of Health Research (CIHR) and Natural Sciences & Engineering Research Council Canada (NSERC). \$425,973, 2007-2009.

Milosevic M, Oza A. et al. Early therapeutics development with a phase II emphasis (NIH/NCI Investigational New Drug Phase II Consortium). US National Cancer Institute. US \$7,475,000, 2006-2011.

Milosevic M, Siu L. et al. Early clinical trials of new anti-cancer agents with Phase I emphasis (NIH/NCI Investigational New Drug Phase I Consortium). US National Cancer Institute. US \$3,141, 2008-2013.

Gospodarowicz M, Sobin L. Collaboration for improving standardized cancer TNM staging system. Centers for Disease Control (CDC). \$175,000, 2008-2009.

Morton G, Chung H, Czarnota G, Batchelar D, Davidson M, Ravi A. A pilot study of advanced ultrasound imaging for real time intra-operative HDR brachytherapy of prostate cancer. Royal Victoria Hospital Foundation – Motorcycle Ride for Dad Grant. \$53,700, 2008.

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Nyhof-Young J, Johnson I. Promoting research excellence: The DOCH 2 website for medical students. Information Technology Course Development Fund (ITCDF), University of Toronto. \$20,000, 2006-2009.

Nyhof-Young J, Urowitz S, Friedman A. Measuring patient satisfaction with care at Princess Margaret Hospital: Survey development project. Ambulatory Care Department, Princess Margaret Hospital. \$5,000, 2008-2009.

Okunieff P, Hill RP, Bristow RG. Assessing skin exposure by measuring DNA damage in skin cells. National Institute of Allergy and Infectious Diseases (NIAID) Centers for Medical Measures against Radiation. \$1,240,210, 2005-2010.

Pang G, Kasap S. A rapid and low-dose megavoltage X-ray tomographic imaging system for image-guided radiotherapy of lung cancer: Development of a novel detector. Canadian Institutes of Health Research (CIHR). \$44,118, 2009.

Pang G, Kasap S. A rapid and low-dose megavoltage X-ray tomographic imaging system for image-guided radiotherapy of lung cancer. Canadian Institutes of Health Research (CIHR) operating grant program. \$87,376, 2008.

Pang G, Rowlands JA, O'Brien P. Near real-time cone beam digital tomosynthesis. Siemens Oncology Care Systems. US \$50,000, 2007-2008.

Pang G. Development of a novel cerenkov x-ray detector for image-guided radiotherapy. Natural Sciences and Engineering Research Council of Canada (NSERC) Individual Discovery Grant Program. \$100,000, 2005-2011.

Parker K, Gropper R, Harnett N. Simulation enhanced learning and clinical competence-phase II. Health Canada Grant. \$75,000, 2008-2009.

Parker K, Gropper R, **Harnett N.** Simulation enhanced learning and clinical competence - phase III. Health Canada Grant. \$87,400, 2009-2010.

Paszat L, Holloway C, Jong R, **Rakovitch E,** Sutradhar A. Survivorship question: Does surveillance mammography after the treatment of unilateral primary breast cancer reduce the odds of dying from breast Cancer? Canadian Institutes of Health Research (CIHR). \$136,359, 2009-2011.

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Peacock S, Sutcliffe S, Elwood, Gallagher R, Browman G, McBride M, Doll R, Sullivan T, Sawka C, Culyer T, Dobrow M, Barer M, Evans B, Morgan S, Krahn M, Hoch J, **Ringash J,** Upshur R, Gibson J, Berry S, Harvey B, Mittman N, Henry D, **Barbera L, Hodgson D.** The Centre for Health Economics, Services, Policy and Ethics Research in Cancer Control. National Cancer Institute of Canada (NCIC). \$3,599,384, 2009.

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Pettersen E, **Wouters B.** Metastatic tumours facilitated by hypoxic microenvironments Metoxia. European Union, 7th Framework Program – Integrated Project. 664,240, 2009-2014.

Bissonnette J-P, Sun A. Prospective Study of 4DCT and 4DPET imaging during a course of radical radiotherapy to monitor tumour response and predict treatment outcome for non-small cell lung cancer. Canadian Cancer Society (CCS) Ontario Division, Lung Cancer Research Grant. \$138,764.00, 2009-2011.

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Pignol JP, Caldwell C, Keller B, Beachey D, Reznik A. On line Gamma-camera imaging of 103-palladium seeds (OGIPS) for permanent breast seed implantation. Canadian Breast Cancer Foundation, Ontario Chapter. \$297,300, 2006-2009.

Pignol JP, Rakovitch E, Caudrelier JM, Paszat L, Keller B, Cygler J. A phase II study of adjuvant Permanent Breast Seed Implant (PBSI) for Ductal Carcinoma In Situ (DCIS). Canadian Breast Cancer Research Alliance. \$448,340, 2008-2011.

Pignol JP. A multicentre registry study of Permanent Breast Seed Implant (PBSI) for early stage breast cancers. Sunnybrook Health Sciences Centre Foundation. \$300,000, 2008-2010.

Pignol JP. Image guided brachytherapy. Poker Hold 'Em for Life'. \$235,000, 2008.

Poon I, Caldwell C, Wright J, Jager P, Pugachev A, Higgins K, Enepekides D. The individualization of radical radiation treatment with the use of intra-treatment 2-(F-18) Flouro-2-Deoxy-D-Glucose (FDG) positron emission tomography in advanced head and neck cancer. Ontario Institute for Cancer Research (OICR) \$689,814.45, 2008-2011.

Poon I, Higgins K, Enepekides D, Roswell C. RAD51 expression predicts radiosensitivity in squamous cell carcinoma of the head and neck and can be down-regulated by Vitamin D3. Canadian Association of Radiation Oncology (CARO), RAZCER Grant Program. \$16,873, 2008-2009.

Poon I, Higgins K, Raphael S, Khaouam, N, Yaffe, M, Symons S, Ehrlich L. A comparison of whole-specimen three dimensional digital histopathology with pre-operative imaging in the delineation of gross tumor volume for oral cavity cancer. The PET/CT Research Fund. \$25,000, 2006-2009.

Purdie T, Dinniwell R. Automating the breast radiation therapy process to improve efficiency and reduce treatment related toxicity. Canadian Breast Cancer Research Alliance (CBCRA) Operating Grant. \$209,460, 2009.

Purdie T, Sharpe MB, Dinniwell R. Improving patient access to breast intensity modulated radiation therapy using an on-line approach. Princess Margaret Hospital Foundation. Weekend Walkers Breast Cancer Innovation Fund (WWBCIF). \$76,723, 2008.

Purdie TG, Dinniwell R, Letourneau D, Jaffray DA, Sharpe MB. Automating the breast radiation therapy process to improve efficiency and reduce treatment related toxicity. Canadian Breast Cancer Research Alliance (CBCRA) Operating Grant. \$209,460 2009-present.

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National Cancer Institute of Canada (NCIC), Canadian Breast Cancer Research Alliance (CBCRA). \$209,460, 2009-2011.

Quan ML, **Rakovitch E**, Baxter N, **Paszat L**, Warner E, Sawka C, Wright F, Hanna W, Saad R. Should all young women (<35) be treated with mastectomy? Canadian Breast Cancer Foundation. \$287,575, 2008-2011.

Rabeneck L, **Paszat L**, Bondy S, Stukel T, Law C, Hsieh E, Marshall D, McLaughlin J, Kim Y-I. Risk of advanced proximal neoplasia of the colon in asymptomatic adults. Canadian Institutes of Health Research (CIHR). \$952,659, 2005-2009.

Rabeneck L, **Paszat L**, Bathe O, Baxter N, Brouwers M, Dobrow M, Hilsden R, Hoch J, McGregor E, Ritvo P, Rostom A, Stukel T, Casebeer A, Sutradhar R. CIHR team in population-based colorectal cancer screening. Canadian Institutes of Health Research (CIHR). \$2,443,467, 2007-2012.

Rabeneck L, **Paszat L**, Baxter N. New or missed colorectal cancer after colonoscopy. American College of Gastroenterology (ACG). \$147,400, 2007-2008.

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Rosemary M, Davis A, Fehlings M, **Ringash J**, Streiner D. Psychometric testing of a new scale measuring medical outcomes of dysphagia (MOD) in adult patients with swallowing disorders secondary to stroke, spinal injury and head and neck cancer. Canadian Institute for Health Research (CIHR). \$430,461, 2009-present.

Rottapel R, **Wouters B**. Cluster II: DNA damage and stress response in cancer: Selective Therapies Program. Terry Fox Research Institute, Ontario Institute for Cancer Research (OICR). \$39,000, 2008-2009.

Rowlands JA. Novel positron emission tomography detectors. Philips Medical Systems Inc., Anrad Corp., CPI Corp., Industrial Chair. \$200,000, 2009-2013.

Rowlands JA, Reznik A, Kasap SO. A novel solid-state PET detector for simultaneous PET and MR imaging. Canadian Institutes of Health Research (CIHR). \$339,768, 2006-2009.

Rowlands JA. A novel high gain detector for breast cancer dedicated PET imager. Cancer Imaging Network of Ontario (CINO). \$69,825 pa (Total: \$139,650), 2007-2009.

Rowlands JA. Low cost digital mammography system. Anrad Corporation, matching operating funds for a future. Natural Sciences & Engineering Research Council Canada (NSERC) Collaborative Research Development (CRD). \$50,000, 2009-2013.

Sanche L, Paquette B, **Pignol JP.** Investigations of low energy electron damage to cellular constituents: Application to radiotherapy. Canadian Institutes of Health Research (CIHR). \$673,864, 2006-2010.

Sharpe MB, Kim J, Catton P, Gospodarowicz M. IMRT in theory and clinical practice: A continuing education course. Cancer Care Ontario (CCO). \$160,000, 2008-present.

Siewersdsen JH, Brock K. High-performance Cone-Beam CT guidance of head and neck surgery. National Institutes of Health (NIH), R01. US \$760,000, 2007-2011.

Siewersdsen J, Irish JC Guided therapeutics (GTx): Translational Research Image-Guided OR (TRIGOR-A). Infrastructure for image-guided surgery, focusing on the development of a cone-beam CT-capable C-arm for use in clinical research trials. Princess Margaret Hospital Foundation Targeted Fundraising: Cone-Beam CT for Image-Guided Surgery. \$400,000, 2006-2009.

Siewersdsen J, Irish JC. Guided Therapeutics (GTx): Translational Research Image-Guided OR (TRIGOR-A). Infrastructure and operational support for development of a dedicated research OR for advanced image-guided procedures. Support includes two full-time engineers for research and development of imaging and navigation technologies. Princess Margaret Hospital Foundation Targeted Fundraising – Engineering for Guided Therapeutics. \$800,000, 2006-2009.

Siewersdsen J, Irish JC. Cone-beam CT for image-guided surgery. Research, development, and translation to clinical trials involving advanced technologies for image-guided interventions. Emphasis is on 3D intraoperative imaging and navigation suitable for research trials in human subjects. Princess Margaret Hospital Foundation Targeted Fundraising – Guided Therapeutics Operational Support. \$600,000, 2006-2009.

Siewersdsen J. High-performance Cone-beam CT guidance of head and neck surgery. Development of an integrated cone-beam CT guidance system for head and neck surgery. Quantitation of surgical performance improvement under various guidance modalities. Deployment in clinical research trials. National Institutes of Health (NIH) – R01 Research Grant US \$1,000,000, 2007-2011.

Siewersdsen J. High-performance dual-energy imaging for diagnostic and image-guided procedures. Development of novel multi-spectral x-ray image decomposition techniques and investigation of imaging performance in diagnostic and image-guided procedures. Canadian Institutes of Health Research (CIHR) New Investigator Award (#167097). \$300,000, 2007-2012.

Siewersdsen J. High-performance dual-energy X-Ray imaging with flat-panel detectors- II imaging physics investigation of dual-energy imaging. Development of advanced dual-energy decomposition methods, analysis of diagnostic performance, and investigation of advanced applications. Industry Research Partnership–Kodak Health Imaging (Carestream Health Inc.). US \$500,000, 2007-2009.

Siewersdsen J. Image science for the new X-ray: Taking NEQ to task. Development of task-driven descriptions of imaging performance for advanced imaging modalities (dual-energy imaging, tomosynthesis, and cone-beam CT) in diagnostic and image-guided procedures. National Institutes of Health (NIH)– R01 Research Grant. US \$1,000,000, 2006-2010.

Singh S, **Paszat L, McGowan TS**, Goldwasser M, Przybysz R, Irish J, **Barbera L.** Waiting times for radiation therapy in Ontario and associated cancer outcomes. National Cancer Institute of Canada (NCIC). \$392,373, 2007-2010.

Siu L, **Brade A.** Early clinical trials of new anti-cancer agents with phase I emphasis (NIH/NCI Investigational New Drug Phase I Consortium). US National Cancer Institute. US \$628,383, 2008-2013.

Siu L, **Fyles A.** Early clinical trials of new anti-cancer agents with phase I emphasis (U01). US National Cancer Institute (NCI). US \$3,141,916, 2008-2013.

Stuart Peacock S, Jeffrey Hoch J, **Barbera L**, Barer M, Berry S, Browman G, Culyer T, Dobrow M, Doll R, Elwood M, Fassbender K, Gallagher R, Gibson J, Hagen N, Harvey B, Henry D, Hodgson D, Krahn M, Lemieux-Charles L, McBride M, Mittman N, Morgan S, **Ringash J**, Sullivan T, Sawka C, Sutcliffe S, Upshur R. Health Economics, Services, Policy and Ethics (HESPE). CCS-RI grant. \$3,600,000, 2008-2009.

Sun A, Breen S, Bezjak A, Kane G, **Payne D, Cho J, Brade A, Vines D, Purdie T**, Young S. A pilot prospective study of FDG-PET-CT imaging utility in radiotherapy treatment planning and assessment in all stages and histological types of lung cancer. Phillips Medical Systems. \$124,000, 2007-2009.

Sun A. A pilot prospective study of FDG-PET-CT imaging utility in radiotherapy treatment planning and assessment in all stages and histological types of lung cancer. Funded by Phillips Medical Systems. \$124,000.00, 2007-2009.

Szumacher E, Paszat L, Angus J, Metcalfe K, Whelan T, Llewellyn-Thomas H. The development of the decision-aid investing patients' preferences for adjuvant radiotherapy and antiestrogen therapy versus antiestrogen therapy alone in patients 70 years or older with

stage I, EP/PR positive, invasive breast cancer. Canadian Breast Cancer Foundation (CBCF). \$121,076, 2008-2010.

Szumacher E. Veronique Benk Professorship Grant–Education. Sanofi Aventis. \$16,000, 2007-2009.

Tang C, **Loblaw DA**, Klotz L. The role of bound prostate specific antigen in predicting risk of progression in the active surveillance population with low risk localized prostate cancer. CUOG - AstraZeneca Fellowship Award. \$9,940, 2007-2008.

Tinmouth J, **Paszat L**, Rabeneck L, Baxter N, Cohen L, Sutradhar S, Angus H, Dobrow M, Jeejeebhoy KN, Murray I, Nijhawan PK. Assessing the quality of colonoscopy: validation of quality indicators. Canadian Cancer Society Research Institute - formerly National Cancer Institute of Canada (NCIC). \$165,863, 2009-2014.

Tinmouth J, **Paszat L**, Rabeneck L. Esophageal adenocarcinoma in Ontario: Trends, Risk factors and health services utilization. Canadian Institutes of Health Research (CIHR) \$120,000, 2007-2009.

Tinmouth J, **Paszat L**. Trends in the incidence of and mortality from epidermoid anal cancer in the Province of Ontario. University of Toronto Dean's Fund. \$10,000, 2005-2010.

Tsao M, Bristow R, Done S, Hedley D, **Hill R**, Khokha R, Lepock J, Lilge L, **Liu F-F**, Squire J, Wilson B. Equipment maintenance support for oncologic molecular micro-imaging (OMM). Canadian Institutes of Health Research (CIHR). \$400,000, 2005-2010.

Urowitz S, **Wiljer D**. Meeting planning and dissemination grant: Innovative symptom management in cancer care. Canadian Institutes of Health Research (CIHR)-IHSPR Partnership in Health System Improvement. \$15,000, 2009-2010.

Vitkin A, Levin W. Optical coherence tomographic imaging for monitoring radiation complications in the colon. Collaborative Health Research Projects Award (CHRP). \$475,000.00, 2008-2011.

Vitkin A. Endoscopic doppler OCT for gastrointestinal imaging. Canadian Institutes of Health Research (CIHR). \$115,000, 2005-2009.

Vitkin A. Optical Coherence tomographic imaging for monitoring radiotherapy complications in the rectum. Natural Sciences & Engineering Research Council Canada (NSERC), Canadian Institutes of Health Research (CIHR) Collaborative Health Research Program. \$152,000, 2009-2012.

Vitkin A. Spectral turbid polarimetry in birefringent turbid chiral media. Natural Sciences & Engineering Research Council Canada (NSERC). \$41,000, 2007-2012.

Vitkin A. Towards cellular and microvascular subsurface tissue imaging in-vivo Using optical coherence tomography. Premier's Research Excellence Award (Government of Ontario). \$30,000, 2003-2008.

Waldron J, Gilbert R. A prospective cohort study to determine the sensitivity of Positron Emission Tomography (PET) in detecting metastatic cancer in neck lymph nodes in patients with squamous cell head & neck cancer managed with primary radiation therapy. Cancer Care Ontario/ Ministry of Health and Long-Term Care (MOHLTC) operating grant. \$300,000, 2003-2008.

Warde P. Bayley A. A randomized Phase III study of neoadjuvant hormonal therapy in patients with localized prostate cancer treated with escalated dose radiation therapy. Astra Zeneca. \$250,000, 2000-2009.

Warde P. Phase III randomized trial comparing total androgen blockage versus total androgen blockage plus irradiation in clinical stage T3-T4, N0, M0 adenocarcinoma of the prostate. National Cancer Institute of Canada Clinical Trials Group / Eastern Co-operative Oncology Group / South Western Oncology Group / Medical Research Council. \$845,000, 1995-2009.

Whelan T, Julian J, Levine M, **Pignol JP**, Shelley W, Anand S, Chong N, **Fyles A**, Schneider K, Lukka H, Bowen J, Perera F, Gulavita S, Freeman C, Grimard L. Long term outcomes of a randomised trial of breast irradiation schedules after lumpectomy in women with node negative breast cancer. Canadian Breast Cancer Research Alliance (CBCRA). \$1,415,000, 2003-2009.

Whelan T, Levine M, O'Malley F, Andrulis I, Pritchard K, Lytwyn A, Elavathil L, Koru-Sengal T, **Pignol JP**, Hayes D. Identification of biomarkers that predict response to accelerated hypofractionated radiation therapy in breast cancer. Canadian Breast Cancer Foundation, Ontario Chapter. \$445,454, 2007-2010.

Whelan W, **Vitkin A.** Optical monitoring and control of focal laser thermal therapy of prostate cancer. National Cancer Institute of Canada (NCIC). \$91,000, 2007-2010.

Wiljer D, Catton P, Luke R, Urowitz S, Chafrańskaia A. Lymph-Line: A feasibility study for online lymphedema Care. Canadian Breast Cancer Research Alliance (CBCR), DEX Grant. \$47,550.64, 2006-2008.

Wong CS. Mechanisms of radiation injury in the central nervous system. National Cancer Institute of Canada (NCIC). \$747,730, 2005-2010.

Wong CS. Positron emission tomography (PET) evaluation study - Sunnybrook site. Ministry of Health and Long-Term Care Research Grant. \$130,000, 2006-2008.

Wong CS. The neuroprotective role of erythropoietin in radiation-induced CNS injury. Ontario Cancer Research Network (OCRN). \$526,893, 2005-2008.

Wong CS. Tissue protective peptide in radiation-induced brain injury. Araim Pharmaceuticals Inc. US \$10,665, 2007-2008.

Wong R, Ferguson P, Wunder J, Wang L, Potter A. Evaluating the clinical outcomes of patients with femoral metastases at high risk of fracture. Kerbel Research Fund (100 patients). \$5,000, 2009-present.

Wong R, Fitzpatrick D, **Bezjak A, Levin W, Mclean M, Millar BA, Dinniwell R,** Holwell M, Vloet A, Wang L. Evaluation of the clinical and dosimetric impact of CT Simulation with Fluoroscopy based radiotherapy planning for the treatment of bone metastases. Kerbel Research Fund (100 patients). \$5000, 2008-2009.

Wong R, Kitamura C, **Bezjak A, Levin W, Mclean M, Millar BA, Dinniwell R.** Evaluating the feasibility and clinical impact of telemedicine for consultation and follow up in patients referred for palliative radiotherapy. Kerbel Research Fund (100 patients). \$5000, 2008-2009.

Wong R, Ng D, Williams D, **Mclean M, Bezjak A, Millar BA, Chung P, Cho J, Nyhof Young J.** A qualitative study on the use of short stories as educational material for patients with brain metastases and their caregivers. Kerbel Research Fund. (60 Patients). \$5000, 2004-2008.

Wouters B, Brade A. Identification of lung cancer mutations that contribute to treatment response: A pilot study. Princess Margaret Hospital Foundation Invest in Research. \$100,000, 2009-2010.

Wouters B, Hope A, Bristow R, Tsao M. Identification of lung cancer mutations that contribute to treatment response: A pilot study. PMH Invest in Research Grant Funding. \$100,000, 2009-2010.

Wouters B, Tsao M, Liu G, Brade A, Bezjak A, Bristow R, Hope A. Identification of lung cancer mutations that contribute to treatment response: A pilot study by the Princess Margaret Hospital Foundation Invest in Research Program. 100,000, 2009-2010.

Wouters B. Hypoxic regulation of ER stress responses and their exploitation for cancer therapy. Dutch Cancer Society (KWF). \$385,766, 2008-2010.

Wouters B. Identification of lung cancer mutations that contribute to treatment response: A Pilot Study. The Ontario Cancer Institute (OCI). \$100,000, 2009-2010.

Wouters B. Deregulation of mTOR and HIF1 as a cause of Birt-Hogg-Dubé syndrome. Profileringsfonds -- Academic Hospital Maastricht (AZM). (Euro) 150,600, 2007-2010.

Wouters B. The role of hypoxic adaptation through microRNA translation regulation in breast cancer. The Weekend to End Breast Cancer. \$84,655, 2008-2009.

Wright G, **Rowlands JA**. Imaging for cardiovascular therapeutics. Ontario Research Fund (ORF) Research Excellence (RE). \$14,490,484, 2007-2013.

Wright JG, Hetherington CR, Lupea D, Nicholas DB, **Nyhof-Young J**, Willan AR. Improving education and coping of scoliosis patients undergoing surgery and their families using e-health. Canadian Institutes of Health Research (CIHR) Operating Grant Program. \$240,363, 2006-2009.

Yaffe M, **Brock K**. Pathology validation. Ontario Institute for Cancer Research (OICR). \$702,092, 2008-2012.

Yeboah C. Development of magnetically-confined very high energy laser-accelerated electron beam therapy. University of Toronto Dean's Fund. \$10,000, 2006-2010.

Yee A, Whyne C, Akens M, **Sahgal A, Chow E**, Wilson B, Bisland S, Clemons M. A Phase I Trial on the use of PDT in the treatment of breast cancer vertebral metastasis. Canadian Breast Cancer Foundation. \$300,850, 2009-2012.

Yee A, Whyne C, Akens M, **Sahgal A, Chow E**, Wilson B, Bisland S, Clemons M. A Phase 1 Trial on the use of PDT in the treatment of Breast Cancer Vertebral Metastases. Canadian Breast Cancer Foundation. \$729,750, 2009.

Yeung I. Dynamic Contrast Enhanced Breast CBCT- in project "1 mm Challenge". Ontario Institute of Cancer Research (OICR). \$25,000, 2008-2009.

Yeung I. Hypoxia in tumors: clinical and experimental studies. National Cancer Institute of Canada (NCIC) Project Program. (PI of Project 4 - \$605,150) \$5,161,165, 2004-2009.

Yeung I. On-line perfusion measurement with contrast enhanced Cone-Beam CT in radiation therapy. Canadian Institute of Health Research (CIHR). \$109,628, 2007-2009.

Yeung I. Radiation-induced lung damage: Volume effects and mitigation. Canadian Institute of Health Research (CIHR). \$546,796, 2005-2009.

Yeung I. Tumor Perfusion Assessment Tool - in project "Clinical Trials Platform". Ontario Institute of Cancer Research (OICR). \$262,300, 2008-2010.

Yeung I, Jaffray DA, Cho Y, Dawson L. 2 years study on On-line perfusion measurement with contrast enhanced cone-beam CT in radiation therapy. Canadian Institutes of Health Research (CIHR). \$76,000, 2006-2008.

Publications

Peer Reviewed Publications

Aerts HJ, Dubois L, Perk L, van Dongen G, **Wouters BG**, Lambin P. Disparity between in vivo EGFR expression and Zirconium-89-labeled Cetuximab uptake assessed with PET. *J Nuclear Med* 50(1):123-131, 2009.

Alajez N, Mocanu J, Shi W, Chia M, Breitbart CJ, Hui A, Knowles S, Bell J, Busson P, Takada K, Lo K-W, **O'Sullivan B**, Gullane P, **Liu FF**. Efficacy of systemically administered mutant Vesicular Stomatitis Virus (VSVD51) combined with radiation for nasopharyngeal carcinoma. *Clin Cancer Res* 14:4891-4897, 2008.

Ali M, Kim H, Cleary S, Gallinger S, Cupples, C, **Bristow R**. Characterization of mutant MUTYH proteins associated with familial colorectal cancer. *Gastroenterology* 135(2):499-507, 2008.

Alibhai SMH, Leach M, **Warde P**. Major 30-day complications after radical radiotherapy: a population-based analysis and comparison with surgery. *Cancer* 115(2):293-301, 2009.

Alibhai SM, Mahmoud S, Hussain F, Naglie G, Tannock I, Tomlinson G, Fleshner N, Krahn M, **Warde P**, Klotz L, Breunis H, Leach M, Canning SD. Levels of sex hormones has limited effect on cognition in older men with or without prostate cancer. *Crit Rev Oncol Hematol* (published online April 2009).

Amin M, Norrlinger B, **Heaton R**, **Islam M**. Image guided IMRT dosimetry using anatomy specific MOSFET configuration. *J Appl Clin Med Phys* 9: 69-81, 2008.

Anraku M, Waddell TK, de Perrot M, Lewis SJ, Pierre AF, Darling GE, Johnston MR, Zener RE, Rampersaud YR, Shepherd FA, Leighl N, **Bezjak A**, **Sun AY**, Hwang DM, **Tsao MS**, Keshavjee S. Induction chemoradiotherapy facilitates radical resection of T4 non-small cell lung cancer invading the spine. *J Thorac Cardiovasc Surg* 137(2): 441-447, 2009.

Attias D, **Hodgson D**, Weitzman S. Primary mediastinal B-cell lymphoma in the pediatric patient: Can a rational approach to therapy be based on adult studies? *Pediatr Blood Cancer* 52(5):566-70, 2009.

Bachar G, Goldstein DP, Shah M, Tandon A, **Ringash J**, Pond G, Gullane PJ, Perez-Ordenez B, Gilbert RW, Brown DH, Gentili F, **O'Sullivan B**, Irish JC. Esthesioneuroblastoma: The Princess Margaret Hospital experience. *Head Neck* 30(10): 1607-14, 2008.

Bachar G, Goldstein D, **Tsang R**, Brown D, Irish J. Solitary extramedullary plasmacytoma of the head and neck: long-term outcome analysis of 68 cases. *Head Neck* 30(8): 1012-19, 2008.

Bachar G, Loh KS, **O'Sullivan B**, Goldstein D, Wood S, Brown D, Irish J. Mucosal melanomas of the head and neck: The Princess Margaret Hospital experience. *Head Neck* 30(10): 1325-31, 2008.

Banihashemi B, Vlad R, Debeljevic B, Giles A, Kolios MC and **Czarnota GJ**. Ultrasound imaging of apoptosis in tumour response: Novel pre-clinical monitoring of photodynamic therapy effects. *Cancer Res* 68: 8590-8596, 2008.

Barbera L, Paszat L, Qiu F. End of life care in lung cancer patients in Ontario: A population based description of aggressiveness of care and description of hospital admissions. *J Pain Symptom Manage* 35(3): 267-74, 2008.

Barbera L, Thomas G. Management of early and locally advanced cervical cancer. *Semin Oncol* 36 (2):155-69, 2009.

Barnes EA, Chow E, Tsao M, Bradley NM, Doyle M, Li K, Lam K, **Danjoux C**. Physician's expectation of treatment outcomes for patients with brain metastases referred for whole brain radiotherapy. *Int J Radiat Oncol Biol Phys* (published online April 2009).

Bartolac S, Clackdoyle R, Noo F, **Siewerdsen JH, Moseley DJ, Jaffray DA**. A local shift-variant Fourier model and experimental validation of circular cone-beam computed tomography artifacts. *Med Phys* 36(2): 500-512, 2009.

Baumann M, Krause M, **Hill RP**. Exploring the role of cancer stem cells in radioresistance. *Nat Rev Cancer* 8(7): 545-54, 2008.

Basran P, Yeboah C. Dosimetric verification of micro-MLC based intensity modulated radiation therapy. *J Applied Clin Med Phys* 9:1-13, 2008.

Baxi S, Lu JJ, Park E, Choong V, **Chung HT**. Temporal changes in IMRT countouring of organs at risk for nasopharyngeal carcinoma? The learning curve blues and a tool that could help. *Technol Cancer Res Treat* 8(2):131-40, 2009.

Baxter NN, Goldwasser MA, **Paszat LF**, Saskin R, Urbach DR, Rabeneck L. Association of colonoscopy and death from colorectal cancer: A population-based, case-control study. *Ann Intern Med* 150:1-8, 2009.

Bedi H, Mittra G, **Sahgal A**, Pirouzmand F, Bibao J, **Sinclair E**, Fitch A, **Chow E**. Neurosurgical rescue of bradycardia induced by intra-cerebral hypertension. A case report and review of the literature. *J Palliat Med*, 12(6), 2009.

Behzadi A, **Ung YC**, Lowe V, Deschamps C. The role of PET imaging in the management of non-small cell lung cancer. *Can J Surg* 52(3):235-42, 2009.

Beiki-Ardakani A, Jezaioranski J, **Jaffray D, Yeung I**. Improving quality assurance for assembled COMS eye plaques using pinhole gamma camera. *Med Phys* 35(10):4318-23, 2008.

Belev G, Kasap SO, **Rowlands JA**, Hunter D, Yaffe M. Dependence of the electrical properties of stabilized a-Se on the preparation conditions and the development of a double layer X-ray detector structure. *Curr Appl Phys* 8(3-4): 383–387, 2008.

Bezjak A, Lee CW, Ding K, Brundage M, Winton T, Graham B, Whitehead M, Johnson DH, Livingston RB, Seymour L, Shepherd FA. Quality of life outcomes for adjuvant chemotherapy in early stage non-small cell lung cancer: results from a randomized trial, JBR.10. *J Clin Oncol* 23(31): 5052-5059, 2008.

Bhogal N, Jalali F, **Bristow RG**. Microscopic imaging of DNA repair foci in irradiated normal tissues. *Int J Radiat Biol* 18:1-15, 2009

Bissonnette JP, Franks K, **Purdie T**, **Moseley D**, Sonke JJ, **Jaffray D**, **Dawson L**, **Bezjak A**. Quantifying inter-fraction and intra-fraction tumor motion in lung stereotactic body radiotherapy using respiration-correlated cone beam CT. *Int J Radiat Oncol Biol Phys* (published online April 2009).

Bissonnette J, **Moseley D**, White E, **Sharpe M**, **Purdie T**, **Jaffray D**. Quality assurance for the geometric accuracy of cone-beam CT guidance in radiation therapy. *Int J Radiat Oncol Biol Phys* 71:S57-61, 2008.

Bissonnette JP, **Purdie TG**, **Higgins JA**, Li W, **Bezjak A**. Cone-beam computed tomographic image guidance for lung cancer radiation therapy. *Int J Radiat Oncol Biol Phys* 73(3): 927-934, 2009.

Bjarnason GA, **MacKenzie RG**, Nabid A, Hodson ID, El-Sayed SM, Grimard LJ, Brundage M, Wright J, Hay JH, Ganguly P, Leong C, Wilson J, Jordan RC, Walker M, Tu D, Parulekar WR. Comparison of toxicity associated with early morning versus late afternoon radiotherapy in patients with head-and-neck cancer: A prospective randomized trial of the National Cancer Institute of Canada Clinical Trials Group (HN3). *Int J Radiat Oncol Biol Phys* 73(1): 166-172, 2009.

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Wong K, **Bayley AJ**, Lockwood G, **Cummings BJ**, **Kim J**, **O'Sullivan B**, **Waldron J**, Siu L, Chen E, **Ringash J**. FACT-H&N and UW-QOL show validity and responsiveness in nasopharyngeal carcinoma. International Society for Quality of Life (ISOQOL) Research Meeting, Montevideo. QLR Journal A-120,1826, 2008.

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Zeng, **McGowan T**, Larsen T, Tsao J, Bruce L, Moran N, Nielsen M, **Islam M, MacPherson M**. Clinical implementation of varian on-board imaging system. Carlo Fidani Peel Regional Cancer Center, Mississauga; Princess Margaret Hospital, Toronto; Ottawa Regional Cancer Centre, Ottawa. *Med Phys* 35(6):2690, 2008.

Zinchenko Y, **Craig T, Keller H, Terlaky T, Sharpe M**. Analysis of the effects of multiple gEUD-type constraints on dose distribution for IMRT optimization. *Med Phys* 35(6):2868, 2008.

Presentations

Ackerman, Ida

Endometrial Cancer and Brachytherapy, Kitchener. 2009

Barker, Ruth

Deciphering Statistics in Research: A beginner's guide. Canadian of Association Medical Radiation Technologists Annual General Conference. Pre-Conference Workshop, Vancouver. 2009

Barnes, Elizabeth Antonia

Hypofractionated Radiotherapy Offers Effective Palliation for Non Melanoma Skin Cancer. Multinational Association of Supportive Care in Cancer Annual Meeting, Houston, USA. 2008

Referring Physicians Expectations of Palliative Radiotherapy for Brain Metastases. American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Palliative Radiation for Nonmelanoma Skin Cancer. Canadian Association of Radiation Oncologists Annual Meeting, Montreal. 2008

Communication with Referring Physicians. The Art & Science of Pain and Symptom Management Annual Conference, Toronto. 2008

Batchelar, Deidre

Delivering Brachytherapy for Cervical Cancer: Organizational and technical advice to facilitate care. Canadian Organization of Medical Physicists, Victoria. 2009

Bayley, Andrew

Genitourinary Oncology – The Radiation Oncology Perspective. University of Toronto Urology Fellows Didactic Course. 2008

Bezjak, Andrea

Radiotherapy for Early Stage Non-Small Cell Lung Cancer. Small Cell Lung Cancer – Radiotherapy National Cancer Institute workshop on Lung Cancer, Zagreb, Croatia. 2008

Intensity-Modulated Radiotherapy in Lung Cancer. Continuing Medical Education course on Intensity-Modulated Radiotherapy, Princess Margaret Hospital, Toronto. 2008

Image-Guided Radiotherapy in Lung Cancer. Image-Guided Radiation Therapy Education Course, Princess Margaret Hospital, Toronto. 2008

Lung Stereotactic Radiotherapy – Setting up a Stereotactic Body Radiotherapy Program. Canadian Association of Radiation Oncologists Annual Meeting, Montreal. 2008

Improving the Cure Rate of Lung Cancer with Radiotherapy. 8th Princess Margaret Hospital Conference - New Developments in Cancer Management: Conquering Cancer in our Lifetime, Toronto. 2008

Lung Stereotactic Radiotherapy – The Princess Margaret Hospital Experience. Cleveland Clinic 3rd Annual International Symposium on Stereotactic Body Radiation Therapy and Stereotactic Radiosurgery, Orlando, USA. 2009

The Princess Margaret Hospital Experience with Lung Stereotactic Body Radiation Therapy Juravinski Cancer Center Research Rounds, Department of Radiation Oncology, Hamilton. 2009

Bissonnette, Jean-Pierre

Safe and Effective Implementation of Image-Guided Radiation Therapy. American Association of Physicists in Medicine, Texas, USA. 2008

Quality Assurance for Image-Guided Radiation Therapy. American Association of Physicists in Medicine, Houston, USA. 2008

A Simple, Robust IMRT Optimization Method for Lung Cancer, Accounting for Tissue Heterogeneity and Intra-fraction Lung Tumor Motion. American Society for Therapeutic Radiology and Oncology Scientific Meeting, Boston, USA. 2008

Analyse Rétrospective des Incidents en Radiothérapie: Élaboration et utilisation d'un nouveau système de classification. Scientifiques de la Société Française de Physique Médicale, Marseille, France. 2008

Safe and Effective Implementation of Image-Guided Radiation Therapy. American Association of Physicists in Medicine Professional Course Series Houston, USA. 2008

Quality Assurance for Image-Guided Radiation Therapy. American Association of Physicists in Medicine Continuing Education, Houston, USA. 2008

Atelier sur la Stéréotaxie Extra-Crânienne. Ateliers de l'Association Québécoise des Physiciens Médicaux Cliniques, Montréal. 2008

La Radiothérapie Guidée par l'Image (IGRT). Ateliers de l'Association Québécoise des Physiciens Médicaux Cliniques, Montréal. 2008

PMH Lung SBRT Program. 2009 Elekta Synergy Lung SBRT Work Group, Detroit, USA. 2009

Brade, Anthony

Improving Outcomes for Early-Stage Non-Small Cell Lung Cancer (NSCLC) with Stereotactic Body Radiation Therapy (SBRT). Ontario Thoracic Cancer Conference, Niagara-on-the-Lake. 2008

Pemetrexed with Concurrent Cisplatin/Radiation for Unresectable Stage III Non-Small Cell Lung Cancer: A Phase I trial. Eli Lilly Canada National Thoracic Advisory Meeting, Montebello, Quebec. 2008

A Phase I Study of Palliative Thoracic Radiation with Concurrent and Adjuvant Nimotuzumab for Patients with Stage IIB/III/IV Non-small Cell Lung Cancer. Poster Discussion - American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Rib Fracture and Chest Wall Pain After Stereotactic Body Radiation Therapy For Early-Stage Non-Small Cell Lung Cancer. American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

A Phase I Clinical Trial of ¹¹¹In-Human Epidermal Growth Factor in Patients with Metastatic EGFR-Positive Breast Cancer (poster). American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

A Phase I Study of Palliative Thoracic Radiation with Concurrent and Adjuvant Nimotuzumab for Patients with Stage IIB/III/IV Non-small Cell Lung Cancer. European Society for Therapeutic Radiology and Oncology, Göteborg, Sweden. 2008

Defining Trial Endpoints (Tumor Control and Toxicity). Scientific Conference on Stereotactic Body Radiation Therapy: Innovations and Directions for Clinical Applications. University of Rochester Medical Centre, Rochester, USA. 2008

Role of SBRT in Early Stage Lung Cancer. 34th Annual Thoracic Surgery Refresher Course, Toronto. 2009

Locally Advanced Disease Optimal Local Control and Survival: The role of radiotherapy. Western Canadian Lung Cancer Conference, Vancouver. 2009

Radiation Medicine Biomarkers. PMH Phase I Consortium Biomarkers-Imaging-Biostatistics Think-Tank Meeting. Kingbridge, Ontario. 2009

Adventures in Combined modality Therapy: Establishing a Phase I program for testing targeted therapies in combination with radiotherapy. Hospital de Madrid- Norte Sanchinarro - Centro Integral Oncológico Clara Campal, Madrid, Spain. 2009

Optimal Approach to Combined Modality Treatment in Locally Advanced NSCLC. Asia Pacific Thoracic Cancer Regional Medical Conference, Kuala Lumpur, Malaysia. 2009

Bristow, Robert

Biomarkers for DNA Repair Inhibitor Radiotherapy Trials Workshop on New Developments in Molecular Imaging for Translational Research for Clinical Applications, University Hospital Carl Gustav Carus, Technische Universität Dresden Dresden, Germany. 2008

Radiation Treatment of Cancer Measuring and Delivering the Dose. Pharmacy Student Symposium, University of Toronto, Toronto, 2008

Tumour Hypoxia and Therapeutic Response: Friend or foe? 4th International PacRim Breast and Prostate Cancer Meeting, Whistler. 2008

Gene-Microenvironment Synthetic Lethality Approaches in Cancer. KuDOS-AstraZeneca Pharmaceuticals, Cambridge Research Park, Cambridge, United Kingdom. 2008

Hypoxia as a Modifier of DNA Repair and Targeted Therapeutics, Inaugural Symposium, Gray Institute of Radiation Oncology and Biology, University of Oxford, Oxford, United Kingdom. 2008

Radiation Therapy – Clinical potential to target DNA repair. European Society for Therapeutic Radiation Oncology Annual Meeting, Göteborg, Sweden. 2008

DNA Repair Inhibitors and the Clinic. American Society of Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Individualized Prostate Cancer Therapy. Princess Margaret Hospital Conference - New Developments in Cancer Management: Conquering Cancer in our Lifetime, Toronto. 2008

Antioxidants and Prostate Cancer Radiosensitivity. Golden Horseshoe Radiobiology Meeting, University of Rochester, Rochester, USA. 2008

STTARR-MaRs, Advanced In Vivo Imaging Centre PMH Toronto. Australian Canadian Prostate Cancer Research Alliance Program, Brisbane, Australia. 2008

Hypoxia, DNA Repair and Prostate Cancer. Australian Canadian Prostate Cancer Research Alliance Program, Brisbane, Australia. 2008

Canadian Research Network. Australian Canadian Prostate Cancer Research Alliance Program, Brisbane, Australia. 2008

Prostate Hypoxia– Panel: Pathology as a Validation Tool for Cell Function. Canadian Prostate Cancer Research Institute Strategic Workshop, Pathology and Functional Imaging, King City, Ontario. 2009

Cancer Cell Hypoxia and DNA Repair: New targets and new therapies. 2nd International Workshop on Radiation and Multidrug Resistance Mediated via the Tumor Microenvironment, Dresden, Germany. 2009

Hypoxia, DNA Repair and Genetic Instability. International Conference on Translational Research (ICTR) and Pre-Clinical Strategies in Radiation Oncology, Geneva, Switzerland. 2009

Scoring DNA Damage In Situ: Tissue specificity and comparison to MN and plasma DNA. Center for Biophysical Assessment and Risk Management Following Irradiation (CBMARFI) Rochester Retreat, Rochester, USA. 2009

Assessing Organ Exposure by Measuring DNA Damage in Situ. CBMARFI Rochester Retreat, Rochester, USA. 2009

Radiosensitization by DNA Repair Inhibitors. American Association for Cancer Research Annual Meeting, Denver, USA. 2009

Feasibility of an ICGC Project on Prostate Cancer. Canadian Cancer Research Alliance Genome Meeting, Toronto. 2009

Living Tumour Banks and Their Potential in Screening of New Agents. Investigational New Drug Program Special Symposium, National Cancer Institute of Canada Clinical Trials Group Spring Meeting, Toronto. 2009

Research Breakthroughs. Prostate Cancer Research Foundation of Canada Annual Report, Toronto. 2008

Research Breakthroughs in Prostate Cancer Research. Prostate Cancer Foundation of Canada, Toronto. 2008

Spying on Chromosomal Damage in Cancer Cells: New tests and new treatments. Canadian Cancer Society Volunteer and Staff Conference, Kleinburg, Ontario. 2009

Harry Rosen 5K Run, PMH and Prostate Cancer Research. CFRB 1010 The Guy Talk Show, Toronto. 2009

Prostate Cancer and Oxygen: New targets and new therapies. Us Too! Brampton Chapter, Brampton. 2009

Prostate Cancer and Oxygen: New targets and new therapies. Canadian Cancer Prostate Network, Newmarket. 2008

Brock, Kristy

Imaging for Treatment Planning. American Association of Physicists in Medicine Annual Meeting, Houston, USA. 2008

Image Processing and Analysis for Personalized and Evidence-Based Medicine. American Association of Physicists in Medicine Annual Meeting, Houston, USA. 2008

Deformable Modeling Techniques to Facilitate Classification, Targeting, and Response Assessment. Field's Institute, Toronto. 2008

Image Registration of Image Guided and Adaptive Radiotherapy Canadian Association of Radiation Oncologists – Canadian Organization of Medical Physicists, Montreal. 2008

Challenges in Online Image Guided Radiotherapy Management for Liver Tumors. European Society for Therapeutic Radiology and Oncology, Göteborg, Sweden. 2008

Multi-Organ Models for Personalized and Evidence-Based Medicine. Varian Workshop on 3D Deformable Image Registration in Radiation Therapy – A Challenge, Baden, Switzerland. 2009

Respiratory Management: The Princess Margaret Hospital experience. Washington University, Respiration Motion Management Workshop, St. Louis, USA. 2009

Cashell, Angela

The Development of a Professional Practice Portfolio in Radiation Therapy. Princess Margaret Hospital Innovation rounds, Toronto. 2008

Catton, Charles

Radiotherapy for Prostate Cancer. 1st Annual Princess Margaret Hospital Genito-Urinary dialogue. Miami, USA. 2009

Chai, Martin

Radiation Therapist's Perceptions of the Concept of Caring. Annual Toronto Radiation Medicine Conference, Toronto. 2009

Laboratory Skills & Professionalism Evaluation in Radiation Therapy, in-service for the Medical Radiation Sciences faculty, Toronto Michener Institute, Toronto. 2009

University of Toronto Discovery Days in Health Sciences: Seek, Aim and Shoot Radiation Therapy 101, Workshop for visiting high school students, Toronto Michener Institute, Toronto. 2009

Charman, Patricia

Transition from the Academic to the Clinical Environment: Steps to success. Seminar, Michener Institute of Applied Sciences, Toronto. 2009

Cherryman, Fiona

Clinical Remediation Processes and Strategies for Supporting Radiation Therapy Student Success. Workshop presentation at Radiotherapy in Practice 4 Conference, Sheffield Hallam University, Sheffield, UK. 2008

Cheung, Patrick

Novel Radiotherapeutics. New Insights, Toronto. 2008

Technical Developments in External Beam RT: Past, present, and future. Urology Divisional Rounds, Sunnybrook Health Sciences Centre, Toronto. 2008

Debate: Surgery vs Radiotherapy for Localized High Risk Prostate Cancer. GU Conversations, Mississauga. 2009

Debate: Radiosurgery vs Surgery for T1 N0 Lung Cancer. 4th Annual Ontario Thoracic Cancer Conference, Queen's Landing Inn & Conference Centre, Niagara-on-the-Lake. 2009

Chow, Edward

Quality of Life and Pain Flare in Bone Metastases. Grand Round, Royal Victoria Hospital, Barrie. 2008

Sunnybrook - Clinical Research. Bonus 3. Breast cancer and bone disease new updates, Toronto. 2008

Doc, How Long do I Have to Live? Annual Ontario Provincial Conference on Palliative and End-of-Life Care, Toronto. 2008

Survival Prediction. American Society for Therapeutic Radiology and Oncology Annual Meeting, Nursing Symposium, Boston, USA. 2008

Canadian Association of Radiation Oncologists' Workshop: Spinal Stereotactic Body Radiotherapy (SBRT): How, when, and the risks, and current concepts in the molecular aspects of radiation induced myelopathy. Canadian Association of Radiation Oncologists Annual Meeting, Montreal. 2008

Symptom Cluster Research in Patients with Bone Metastases Receiving Palliative Radiotherapy. Province-Wide Sleep Rounds, Toronto. 2008

Phase III and IV Development of the EORTC QLQ-BM22. EORTC QLG Semi-Annual Meeting, Brussels, Belgium. 2009

Validation of the EORTC Brain Cancer Module (QLQ-BN20) in Brain Metastases Patients. EORTC QLG Semi-Annual Meeting, Brussels, Belgium. 2009

Bone Metastases: Quality of life – whose perspectives. VU University Medical Center, department of Neurology, Medical Center Haaglanden, The Hague, The Netherlands. 2009

Functional Interference Clusters in Cancer Patients with Bone Metastases: An analysis of Radiation Therapy Oncology Group (RTOG) 9714. American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Determining the accuracy of health care professionals in predicting the survival of patients with advanced metastatic cancer. Annual Hospice Palliative Care Conference, Toronto. 2009

Validation of Meaningful Change in Pain Scores in the Treatment of Bone Metastases. Annual Hospice Palliative Care Conference, Toronto. 2009

Chung, Hans

Research Ethics Rounds: The Case of the Nanny. Sunnybrook Health Sciences Centre, Toronto. 2009

Grand Medical Rounds: The Role of Radiotherapy in Rectal Cancer. Toronto East General Hospital, Toronto. 2009

Sunnybrook Odette Cancer Centre, Rapid Response Radiotherapy Program (RRRP) Role of Palliative Radiotherapy in GI Cancers. Sunnybrook Odette Cancer Centre, Toronto. 2009

Prostate Brachytherapy. Prostate Cancer Support Group, Newmarket. 2008

Chung, Peter

IMRT for Prostate Cancer: Not just the prostate alone. Hamilton Health Sciences, Hamilton. 2009

Integrating Technology for Radiotherapy in Prostate Cancer. Brampton. 2009

Radiotherapy is the Preferred Treatment for Muscle Invasive Bladder Cancer. First Annual Princess Margaret Hospital Uro-Oncology Dialogue, Hollywood, USA. 2009

Clinical Case Presentation: Prostate Cancer, Intensity-Modulated Radiation Therapy (IMRT) Education Course, Princess Margaret Hospital, Toronto. 2009

Craig, Tim

Advanced Image Guidance Allows Margin Reduction in Radiation Therapy of Prostate Cancer. Presented at the American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Crook, Juanita

Catheterization Rates and the Severity of lower Urinary Tract Symptoms. Canadian Association of Radiation Oncology, Montreal. 2008

Brachytherapy for Squamous Carcinoma of the Penis: A penile conserving option. Societe Internationale D'Urologie World Uro-oncology update, Santiago, Chile. 2008

Iodine 125 Prostate Brachytherapy 9-Year Experience with Over 1000 Patients. Societe Internationale D'Urologie World Uro-oncology update, Santiago, Chile. 2008

Planning LDR Prostate Brachytherapy. ABS Prostate Brachytherapy School, Chicago, USA. 2008

Salvage Prostate Brachytherapy. ABS Prostate Brachytherapy School, Chicago, USA. 2008

Prostate Cancer: A paradigm for progress in oncology. Canadian Association of Radiation Oncologists Annual Gordon Richards Lecture, Montreal. 2008

Radiotherapy for Penile Cancer: A penile-conserving option. Societe Internationale d'Urologie. Santiago, Chile. 2008

Final Report of a Multicenter Canadian Phase III Randomized Trial of 3 Vs 8 months Neoadjuvant Androgen Deprivation Prior to Conventional Dose Radiotherapy for Clinically

Localized Prostate cancer. American Society for Therapeutic Radiology and Oncology, Boston, USA. 2008

The Role for Radiotherapy in Penile Conservation: Penile cancer: Current concepts and controversies. American Society for Radiology and Oncology / American Society of Clinical Oncology Genito-Urinary Cancer Symposium, Orlando, USA. 2009

Access to Brachytherapy in Canada. 18th Australasian Brachytherapy Group Annual Meeting, Gold Coast, Australia. 2009

Comparison of CT and MR-based Post Implant Dosimetry. Australasian Brachytherapy Group Annual Scientific Meeting, Gold Coast, Australia. 2009

Optimal Equations for Describing the Relationship Between Prostate Volume, Number of Sources and Total Activity in Permanent Prostate Brachytherapy. Australasian Brachytherapy Group Annual Scientific Meeting, Gold Coast, Australia. 2009

Late Urinary Toxicity After Iodine-125 Prostate Brachytherapy. 18th Australasian Brachytherapy Group Annual Meeting, Gold Coast, Australia. 2009

Iodine - 125 Brachytherapy (BT) as Monotherapy in Men Aged <55 years with Localized Cancer. 18th Australasian Brachytherapy Group Annual Meeting, Gold Coast, Australia. 2009

PSA Bounce After Iodine-125 Prostate Brachytherapy. 18th Australasian Brachytherapy Group Annual Meeting, Gold Coast Australia. 2009

The Radiation Story: Toronto Man to Man Prostate Cancer Support Group, Toronto. 2009

A Phase III Randomized Trial of Meloxicam Started Either 1 Week Prior to or Concurrent with Iodine-125 Prostate Brachytherapy to Reduce Post Implant Edema,

Squamous Cell Carcinoma of the Penis: Results of brachytherapy as primary management for 74 patients over 18-year period. Genito-Urinary Cancers Symposium, Orlando, USA. 2009

Cummings, Bernard

American Society for Therapeutic Radiology and Oncology and the International Community. Sino-American Network of Therapeutic Radiologists and Oncologists Symposium, Beijing, China. 2008

Gastric Cancer: North American Consensus recommendations for curative surgery and adjuvant treatment. Sino-American Network of Therapeutic Radiologists and Oncologists Symposium, Beijing, China. 2008

Gastric Cancer: Background to the North American approach. Sino American Network of Therapeutic Radiologists and Oncologists Symposium, Beijing, China. 2008

Anal Canal Cancer: North American Consensus and Background. Sino American Network of Therapeutic Radiologists and Oncologists Symposium, Beijing, China. 2008

Progress in Anal Canal Cancer: The contributions of chance and systematic research. Fudan University Cancer Hospital, Shanghai, China. 2008

International Outreach Education Programs of American Society for Therapeutic Radiology and Oncology. Symposium: American Society for Therapeutic Radiation Oncology and the International Community. American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Chemoradiation for Anal Canal Cancer. Early luck but slow progress. Princess Margaret Hospital Conference - New Developments in Cancer Management: Conquering Cancer in our Lifetime. Toronto. 2008

What Can Radiation Therapy Alone Offer the Patient with Rectal Cancer? IAEA Working Group: Resource-sparing curative treatment for rectal cancer in low and middle income countries. International Atomic Energy Agency Headquarters, Vienna, Austria. 2008

American Society for Therapeutic Radiology and Oncology International Programs and the IAEA. International Atomic Energy Agency Headquarters, Vienna, Austria. 2009

Radiation and Chemotherapy for Rectal Cancer: Before or after surgery? Latin American Symposium on GAmerican Society for Therapeutic Radiation and Oncology Intestinal Malignancies, Vina del Mar, Chile. 2009

Perisurgical Treatment for Pancreas Cancer. Latin American Symposium on GAmerican Society for Therapeutic Radiation and Oncology Intestinal Malignancies, Vina del Mar, Chile. 2009

Cancers of the Esophagus and Stomach. Limits and advantages of perioperative treatment. Latin American Symposium on GAmerican Society for Therapeutic Radiation and Oncology intestinal Malignancies, Vina del Mar, Chile. 2009

Czarnota, Gregory

Novel Ultrasound Therapy and Imaging in Locally Advanced Breast Cancer. Toronto Breast Cancer Symposium, Toronto. 2008

Novel Low-Frequency Ultrasound Detection of Apoptosis in Vitro and in Vivo. Ultrasonic Imaging and Tissue Characterization Annual Meeting, Washington, USA. 2008

High-Frequency Detection of Cell Death: Assessment of chemotherapy, radiotherapy, photodynamic therapy and novel microbubble-therapy effects. Ultrasonic Imaging and Tissue Characterization Annual Meeting, Washington, USA. 2008

Microbubble and Ultrasound Enhancement of Radiation-Induced Tumour Cell Death in Vivo. American Association for Cancer Research Annual Meeting, San Diego, USA. 2008

Novel Low-Frequency Ultrasound Detection of Apoptosis in Vitro and in Vivo. American Association for Cancer Research Annual Meeting, San Diego, USA. 2008

Microbubble and Ultrasound Enhancement of Radiation-Induced Tumour Cell Death in Vivo, American Institute of Ultrasound in Medicine Meeting, San Diego, USA. 2008

Monitoring Photodynamic Therapy and Chemotherapy Effects in Tumours using High-Frequency Spectroscopic Ultrasound. American Institute of Ultrasound in Medicine Meeting, San Diego, USA. 2008

Novel Anti-Vascular Ultrasound and Radiation Cancer Treatment. Target Insight Conference III, Toronto. 2009

Novel Anti-Vascular Ultrasound and Radiation Cancer Treatment. Oncology Grand Rounds, London Health Sciences Centre, London. 2009

Novel Anti-Vascular Combined Ultrasound and Radiation Therapy. Bioacoustics Research Laboratory Seminar, Beckman Institute, University of Illinois Urbana Champaign, Urbana, USA. 2009

Davey, Philip

The Radiotherapeutic Management of Pituitary Adenomas. Sunnybrook Endocrine Rounds, Sunnybrook Health Sciences Centre, Toronto. 2008

Dawson, Laura

Uncertainties in Liver Cancer Radiotherapy. Minimizing the adverse effects of uncertainties in external radiation therapy. Society for Mathematical Biology Conference at Fields Institute, Toronto. 2008

Radiation Therapy for Hepatocellular Carcinoma. Sino-American Network for Therapeutic Radiology and Oncology, Beijing, China. 2008

Systemic Therapy for Hepatocellular Carcinoma. Sino-American Network for Therapeutic Radiology and Oncology, Beijing, China. 2008

IGRT Experience for Challenging Disease Sites. Elekta Clinical Solution Symposium. Sino-American Network for Therapeutic Radiology and Oncology, Beijing, China. 2008

Image Registration for Radiotherapy Planning and Treatment. Educational Refresher Course. Canadian Association of Radiation Oncology Annual General Meeting, Montreal. 2008

Image Registration Educational Session, American Society for Therapeutic Radiology and Oncology, Boston, USA. 2008

Upper Abdominal Cancer E-contouring Symposium. American Society for Therapeutic Radiology and Oncology, Boston, USA. 2008

Role of Radiation Therapy in Hepatocellular Carcinoma. The Applied Radiation Biology and Radiotherapy Section of the Division of Human Health. International Atomic Energy Agency, Vienna, Austria. 2008

Advances in Imaging in Radiation Oncology. The Eli Glatstein, MD Transitional Research Conference: New Paradigms In Radiation Oncology, University of Pennsylvania, Philadelphia, USA. 2008

High Precision Radiation Therapy for Upper Abdominal Malignancies. Princess Margaret Hospital Conference - New Developments in Cancer Management: Conquering Cancer in our Lifetime, Toronto. 2008

Stereotactic Radiotherapy for Liver Tumors. Moffit Interdisciplinary GI Oncology Conference, Tampa, USA. 2008

Evolving Role of Radiation Therapy in Hepatocellular Carcinoma. Hepatobiliary Rounds. University of Toronto, Toronto. 2008

Leader of Regional Therapy Panel, Hepatocellular Carcinoma, State of the Science Meeting, National Institute of Health, Washington, USA. 2008

Leader of Regional Therapy Panel, Hepatocellular Carcinoma, State of the Science Meeting, NIH, Washington, USA. 2008

Co-chair, Multidisciplinary Treatment: Hepatobiliary cancer. American Society of Clinical Oncology GI Meeting, San Francisco, USA. 2009

Panel Speaker, Cancer Advances: A public forum on American Society for Therapeutic Radiation and Oncology intestinal cancers. American Society of Clinical Oncology Cancer Foundation, San Francisco, USA. 2009

Panelist, Unresectable Hepatocellular Carcinoma. American Society of Clinical Oncology Cancer GI Meeting, San Francisco, USA. 2009

Motion Management in IMRT Panel. American Society for Therapeutic Radiology and Oncology Intensity Modulated Radiation Therapy Symposium. Phoenix, USA. 2009

Hands On. American Society for Therapeutic Radiation and Oncology Intestinal Contouring Session. American Society for Therapeutic Radiology and Oncology Intensity Modulated Radiation Therapy Symposium. Phoenix, USA. 2009

Palliative Treatment for Hepatocellular Carcinoma. Canadian Association of Hepatology Nurses, in partnership with the Canadian Association for the Study of the Liver and the Canadian Association of G American Society for Therapeutic Radiation and Oncologyenterology, Banff. 2009

Evolving Role of Radiation Therapy for Hepatocellular Carcinoma, Fourth International

Conference on Translational Research and Pre-Clinical Strategies in Radiation Oncology (ICTR), Geneva, Switzerland. 2009

Hepatocellular Carcinoma Radiation Therapy. From Palliation to Cure. Radiological Society of the Republic of China Annual Meeting, Taichung, Taiwan. 2009

Toronto Hepatocellular Carcinoma Radiation Therapy Experience. Mini Hepatocellular Carcinoma Symposium on Radiotherapy in Hepatocellular Carcinoma. Current Opinion and Perspective, Taipei, Taiwan. 2009

IGRT and the New Practice of Radiotherapy. Advances in Radiotherapy Planning and Delivery. The San Francisco Radiation Oncology Conference, San Francisco, USA. 2009

IGRT for GI Cancers. Advances in Radiotherapy Planning and Delivery. The San Francisco Radiation Oncology Conference, San Francisco, USA. 2009

Dinniwell, Robert

Validation of a Vascular Surrogate Class Solution for Inguinal Nodal Clinical Target Volume Delineation in Precision Radiotherapy Treatment Planning. Radiological Society of North America Annual Meeting, Chicago, USA. 2008

Inguinal Nodal Clinical Target Volume Delineation: Validation of a class solution for precision radiotherapy. Canadian Association of Radiation Oncologists Annual Meeting. Montreal. 2008

Nanoparticle-Enhanced MRI for Clinical Target Volume Delineation. The Radiation Treatment Program, Juravinski Cancer Centre, Hamilton. 2009

Eccles, Cynthia

Comparison of Liver Tumour Motion with and without Abdominal Compression Using Cine MRI. American Society for Therapeutic Radiology and Oncology, Boston, USA. 2008

Motion Management for SBRT Liver Cancers. H. Lee Moffit Cancer Center, Tampa, USA. 2008

The Role of the R&D Radiation Therapist in Investigator Initiated Studies. Lunch and Learn for the Clinical Research Support Unit, Princess Margaret Hospital, Toronto. 2008

Fyles, Anthony

Current Status of Hypoxia and Targeting Tumour Cell Signaling and Microenvironment, Canadian Association of Radiation Oncologists Annual Meeting. Montreal. 2008

Gillies, Carol

Results of a Radiation Therapist Opinion Survey Identifying, Measuring and Addressing Radiation Therapy Patient Supportive Care Needs. CHSS Health Services Sciences Symposium, Sunnybrook Health Sciences Centre, Toronto. 2008

Gospodarowicz, Mary

Prognostic Factors in Cancer. International Union for Cancer Control, World Cancer Congress, Geneva, Switzerland. 2008

Case Presentations in Hodgkin's Disease. American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Diffuse Large B-cell Lymphoma – Refresher Course. American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Masters in Radiation Oncology. American Society for Therapeutic Radiology and Oncology, Boston, USA. 2008

The Role of Radiotherapy in Localized MZL. Danish Lymphoma Group 11th Plenary Meeting, Copenhagen. 2008

RT Role in the Treatment of MZL. Marginal Zone B-Cell Lymphomas: A reappraisal, Bolzano, Italy. 2008

International Collaboration for Cancer Control. International Seminar on Breast Cancer: Challenges and Responses, Mexico City, Mexico. 2008

Survivorship in Cancer. Importance of international collaboration. Workshop on survivorship in Hodgkin lymphoma, Rockefeller Foundation Grant, Bellagio, Italy. 2008

Economics of Radiation Oncology. International Conference on Advances in Radiation Oncology, International Atomic Energy Agency, Vienna, Italy. 2009

International Atomic Energy Agency – IAEA, Vienna, Austria. 2009

Testicular Cancer Survivorship: An overview. International Testicular Cancer Survivor Study Workshop, Rochester, New York. 2009

Cancer Staging and Prognosis – Basic Concepts in Cancer Control, Education, and Practice (presentation sent via CD). WHO/IAEA Coordination and Planning Meeting, Cairo, Egypt. 2009

The Role of Radiation Oncology Training Within Comprehensive Cancer Management. WHO/IAEA Coordination and Planning Meeting, Vienna, Austria. 2009.

Cancer Staging and Prognosis – Basic Concepts in Cancer Education and Practice. WHO/IAEA Coordination and Planning Meeting, Vienna, Austria. 2009.

Harnett, Nicole

What Comes First: Interprofessional practice or interprofessional education? Ottawa International Conference on Clinical Competence, Melbourne Australia. 2008

Clinical Impact of Clinical Specialist Radiation Therapist (CSRT) for Patients Requiring Palliative Radiotherapy. Canadian Association of Radiation Oncology Annual Meeting, Montreal. 2008

Does Interprofessional Educational (IPE) Reduce the Stress of Interprofessional Practice in Times of Rapid Technological Advance? Toronto Radiation Medicine Conference, Toronto. 2009

Learning about Image-Guided Radiation Therapy (IGRT): Does an interprofessional educational (IPE) format lead to enhanced interprofessional practice? IPE Ontario 2009 Conference, Toronto. 2009

CSRT DIY: Practical tips for designing advanced practice positions workshop. Toronto Radiation Medicine Conference, Toronto. 2009

Heaton, Robert

The Evolution of Total Body Irradiation delivery at Princess Margaret Hospital. McGill University Health Centre, Montreal. 2008

Higgins, Jane

Radiation Therapists's Perceived Values in Conducting Research: Related challenges and opportunities. Toronto Radiation Medicine Conference. Old Mill, Toronto. 2009

Exploring PMH Radiation Therapists' Perceived Values in Conducting Research: Related challenges and opportunities. Canadian Association of Radiation Oncology Annual Meeting. 2008

Geometric Accuracy in Cone-Beam CT Guided Lung Radiotherapy – What Should we Match to? RT Research Symposium, The Michener Institute, Toronto. 2008

Is Daily Cone-Beam CT (CBCT) Image-Guidance Required to Correct Setup Error in Conventionally Fractionated Lung Radiotherapy? American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Frequency of Setup Errors Based on Daily Cone-Beam CT Imaging for Lung Patients Undergoing Conventionally Fractionated Radiotherapy. Canadian Association of Radiation Oncology Annual Meeting, Montreal, Canada, 2008

Hodgson, David

Age- and Sex- Specific Estimates of Cardiovascular Morbidity Following Modern Treatment for Hodgkin lymphoma: Increased risk in the doxorubicin era. Canadian Association of Radiation Oncologists Annual Meeting, Montreal. 2008

Cardiovascular Morbidity Following Modern Treatment for Hodgkin lymphoma: Age- and sex- specific estimates of risk in the Doxorubicin era. American Society of Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

The Use of Radiation Therapy in the Radical Treatment of Rectal Cancer: A population-based study. Canadian Association of Radiation Oncologists Annual Meeting, Montreal. 2008

Utilizing Large Databases for Health Services Research: Considerations for design and implementation. Ontario Project Planning Meeting for Canadian Partnership Against Cancer Synoptic Reporting Tools Project for Ovarian Cancer Surgeries. Toronto. 2008

Learning from the Fat Man: Modeling radiation-related second cancer risk for clinical use. Workshop on Growth and Control of Tumors: Theory and Experiment. Fields Institute, Toronto. 2008

Redefining the Achievable: Adopting RT innovation in Ontario's cancer care system. Clinical Epidemiology Rounds, St. Michael's Hospital, Toronto. 2008

Cardiac Screening Among Hodgkin lymphoma Survivors. Princess Margaret Hospital Conference: Developments in Cancer Management: Conquering cancer in our lifetime, Toronto. 2008

Darwin's Dilemma: Using observational studies to develop innovative cancer treatment and understand cancer biology. Radiation Oncology Rounds, Vancouver Cancer Centre, Vancouver. 2009

Innovations in Radiation Therapy for Childhood Brain Tumours. b.r.a.i.n.child Foundation Educational Event. Toronto. 2008

In Spite of the High Cost of Living: Improving functional outcomes after sarcoma treatment. First Annual Sarcoma Awareness Day, Liddy Shriver Sarcoma Initiative, Hospital for Sick Children, Toronto. 2008

Hope, Andrew

Models of Lung and CNS Injury Using Modern Small Animal Conformal RT, FOREM, St. Louis, USA. 2008

Medical Imaging and Radiation Oncology: Targeting a cure, Fields Institute, Toronto. 2009

Outcomes Research in Lung Cancer, Maastricht University, Maastricht, Netherlands. 2009

Huang, Sophie

Patterns of Care in Elderly Head and Neck Cancer Patients: The recent PMH experience. International Conference on Innovative Approaches in Head & Neck Oncology, Barcelona, Spain. 2009

Jaffray, David

Moderator Small Animal IGRT: Systems and studies. American Association of Physicists in Medicine, Houston, Texas, USA. 2008

Quantitative Oncology Workshop, Field's Institute, Toronto. 2008

QA for Advancement Technologies in US and Canada. Sino-American Network for Therapeutic Radiology and Oncology, Beijing, China. 2008

MR @ GE Technology, GE Healthcare Medical Advisory Board Conference, Chicago, USA. 2008

Investigators of Performance and Application of the Perfection Unit, American Society for Therapeutic Radiology and Oncology / European Society for Therapeutic Radiology and Oncology, Göteborg, Sweden. 2008

Investigations of Performances and Applications of the Perfection Unit. European Society for Therapeutic Radiology and Oncology-Elekta users meeting. Göteborg, Sweden. 2008

A Relocatable Frame for use with the Perfection Unit. European Society for Therapeutic Radiology and Oncology, Göteborg, Sweden. 2008

Technological Advances in Imaging Research, SIT workshop. American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Image Guided Radiation Therapy: 4D treatment approaches. American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston. 2008

Chair, Introduction and Closing remarks, Imaging Network Ontario, University of Toronto, Toronto. 2008

Centre for Addiction and Mental Health. Spatio-Temporal Targeting and Amplification of Radiation Response (STTARR), Toronto. 2008

Physics Seminar Series, Chair Technology Session. The 8th Princess Margaret Hospital Conference: Developments in Cancer Management: Conquering cancer in our lifetime, Toronto. 2008

Imaging Applications in Prostate Cancer. Canadian Institutes of Health Research - Ontario Institute of Cancer Research-Imaging Pipeline Platform, London Regional Cancer Centre, London. 2008

Imaging for Real Time Monitoring. Radiological Society of North America, Chicago, USA. 2008

Advances in Medical Imaging applied to Radiotherapy. International Atomic Energy Agency, Trieste, Italy. 2009

Performance and Technical Advances in Cone-Beam CT for Therapy Guidance, The South African Society of Medical Oncology, The South African Society of Clinical and Radiation Oncologists, Cape Town, South Africa. 2009

Application of IGRT in Radiation Therapy Practice. South African Society of Medical Oncology, South African Society of Clinical and Radiation Oncology, Cape Town, South Africa. 2009

Preclinical Imaging. PMH Phase I Consortium Biomarkers-Imaging-Biostatistics.Think-Tank Meeting Invitation, Kingsbridge. 2009

Nano-Modulated Radiation Therapy using Gold NPsICTR. Third International Conference on Translational Research and Pre-Clinical Strategies in Radiation Oncology, Geneva, Switzerland. 2009

The Physics of Imaging and Radiotherapy. International Conference on Translational Research and Pre-Clinical Strategies in Radiation Oncology, Geneva, Switzerland. 2009

Keller, Harald

Association of Texture Features to Structure and Function in a Simple Tumor Model and Potential Application to Treatment Response Monitoring using FDG-PET. American Association of Physicists in Medicine Annual Meeting, Houston USA. 2008

Kelly, Valerie

Mentorship and Radiation Therapy, Toronto Michener Institute, Toronto. 2008

Sex, Gender and Radiotherapy. Women's College Research Institute, University of Toronto Graduate Student Research Day, Toronto, Canada. 2008

Kim, John

Larynx and Nasopharynx Cancers. Radiation Therapy student lecture, The Michener Institute, University of Toronto, Toronto. 2008

Preparations for Treatment Planning and Delivery: A radiation oncologist's perspective. IMRT Course, Princess Margaret Hospital, Toronto. 2008

IMRT and IGRT in the Management of Head and Neck Cancer. Princess Margaret Hospital Conference: Developments in Cancer Management: Conquering Cancer in our Lifetime, Toronto. 2008

Image Guided Radiation Therapy in Head and Neck Cancer. Princess Margaret Hospital, Toronto. 2008

Altered Fractionation in Head and Neck Radiotherapy. Sudbury Regional Hospital, North East Regional Cancer Program, Sudbury. 2009

The Multi-Disciplinary Approach to Rectal Cancer Management: Radiation oncology perspective. St. Michael's Hospital GI Oncology Program Evening, Toronto. 2009

Koch, Christine Anne

Genetic Polymorphisms and Radiation Sensitivity in Breast Cancer Patients. Canadian Breast Cancer Research Alliance Reasons for Hope Conference, Vancouver. 2008

Lapperriere, Normand

Reirradiation for Recurrent Meningiomas: Outcomes and complications. American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Letourneau, Daniel

Adapting Technology to Palliative Radiotherapy - the CBCT story. Juravinski Cancer Center. Conference on research in radiation oncology, Hamilton Health Sciences, Hamilton. 2008

Novel Dosimetric System for Volumetric Modulated Arc Therapy. Sun Nuclear Corporation QA Symposium, Orlando, USA. 2009

Online Planning and Delivery Technique for Radiotherapy of Spinal Metastases. Palliative rounds at the Odette Cancer Center, Toronto. 2009

Levin, Wilfred

Bone Metastases Grid - Coping with Multiple Previous Treatment Fields in a Technological Age. Canadian Association of Radiation Oncology Annual Meeting, Montreal. 2008

Living Well with Long Term/Late Effects-Awareness and Interventions. Canadian Cancer Society, Surviving Cancer and Living Well. Toronto. 2008

Palliative Radiotherapy – How to Cope with Multiple Previous Treatment Volumes in the Electronic Age. Canadian Association of Radiation Oncology Annual Meeting, Quebec. 2008

Adult Radiation Late Effects Clinic – A Clinic Dedicated to the Management of Patients with Complications of Radiation Therapy. PREVENT Conference, Brussels, Belgium. 2009

Proposal for Integration of Neoadjuvant Chemoradiation in Primary Management. Gynaecology Site Group Retreat, Vaughan Estates, Toronto. 2009

Radiation Late Effects and the Plastic Surgeon – Plastic Surgery Resident Program. Hospital for Sick Children, Toronto. 2009

Liu, Fei-Fei

The emerging entity of HPV in HNSCC. Invited speaker at Dalhousie University, Department of Virology, Halifax. 2008

HTS for Radio-Sensitizers. Molecular Radiation Therapeutics Branch, NCI-US, Bethesda, USA. 2008

Translational Research in Head & Neck Cancers. Princess Margaret Hospital Conference: Developments in Cancer Management: Conquering Cancer in our Lifetime, Toronto. 2008

Micro-RNAs in Head & Neck Cancer. Institute of Biochemistry and Molecular Biology, University of Waterloo, Waterloo. 2009

Regulation of Polycomb Gene Expression by Micro-RNAs. International Symposium on Nasopharyngeal Carcinoma, Marrakech, Morocco. 2009

Loblaw, Andrew

Active Surveillance for Prostate Cancer and the Role of Bionutrients in Disease Stabilization. Oncology Grand Rounds, Odette Cancer Centre / Sunnybrook Health Sciences Centre, Toronto. 2009

Mah, Katherine

Advances in CT and PET Imaging for Radiation Treatment Planning, American Society of Therapeutic Radiology and Oncology Annual Meeting, Quebec City. 2008

Automatic Definition of Radiation Targets using Textural Characteristics of both CO-Registered PET and CT Images. American Association of Physicists in Medicine Annual Meeting, Houston USA. 2008

Tirona Observer Variability in Radiotherapy Targeting of Head and Neck Tumors: Can PET-CT reduce the variability? Society of Nuclear Medicine Annual Meeting, New Orleans, USA. 2008

FDG PET/CT Based Feature Analysis of Head and Neck Cancer for Radiation Targeting. Society of Nuclear Medicine Annual Meeting, New Orleans, USA. 2008

Co-registered Multi-modality Pattern Analysis Segmentation System (COMPASS) for Radiation Targeting of Head and Neck Cancer Using FDG PET/CT. The Canadian Organization of Medical Physicists Annual Scientific Meeting, Victoria. 2009

A Maximum Likelihood/ Simulated Annealing-based Validation Method for Tumor Segmentation Techniques. The Canadian Organization of Medical Physicists Annual Scientific Meeting, Victoria. 2009

Manchul, Lee

Needs Assessment in Interprofessional Education. IPE Faculty Development Program, Centre for Faculty Development, University of Toronto and St. Michael's Hospital, University of Toronto Conference Centre, Toronto. 2008

The Development and Testing of an Instrument to Measure Faculty Development Needs of Clinician-Educators. RIME oral abstract presentation, Association of American Medical Colleges meeting, San Antonio, USA. 2008

Forming Academic Identity: Mentoring faculty in the rules of the academic game. RIME oral abstract presentation, Association of American Medical Colleges meeting, San Antonio, USA. 2008

Developing Self Assessment Programs. Royal College of Physicians and Surgeons of Canada Accredited Providers Meeting. Ottawa. 2008

McGowan, Thomas

Radiation Oncology in a Paperless Environment. Varian Medical Systems, Winnipeg. 2009

A Discussion on the DART/NCICCTG PR.12 Study (Neoadjuvant Docetaxel and Androgen Suppression Plus Radiation Therapy vs Androgen Suppression Alone Plus Radiation Therapy for High Risk Localized Adenocarcinoma of the Prostate). Sanofi-Aventis, Department of Medical and Radiation Oncology and Department of Urology, Credit Valley Hospital. Toronto. 2008

Topics in Prostate Cancer Management from the Perspective of Radiation Oncology. Presented to physicians and other medical personnel, Credit Valley Hospital. Toronto. 2009

Ménard, Cynthia

Radiotherapy for Local Salvage – Exploring the role of MRI. National Institute of Health – National Cancer Institute of Canada – National Institute of Biomedical Imaging and BioEngineering Workshop on Prostate Cancer Imaging. Washington USA. 2008

Evaluation of Organ Motion with MRI – Relevance to Radiotherapy. General Electric Medical Advisory Board. Chicago, USA. 2008

Image-Guidance in Prostate Brachytherapy. American Society for Therapeutic Radiology and Oncology Annual Meeting: Refresher Course, Boston. USA. 2008

Perfection in Radiation Oncology. American Society for Therapeutic Radiology and Oncology Annual Meeting: Elekta User's Meeting. Boston USA. 2008

Augmenting the Radiotherapeutic Management of Prostate Cancer Using MRI. American Society for Therapeutic Radiology and Oncology Annual Meeting: GE Symposium, Boston, USA. 2008

MRI-Guided Biopsy and Brachytherapy of the Prostate. Imaging Network Ontario, Imaging Symposium, University of Toronto, Toronto. 2008

MRI in Radiotherapy: Opportunities for research. American Society for Therapeutic Radiology and Oncology: Translational Advances in Radiation Oncology and Cancer Imaging Symposium. Arlington, USA. 2008

Interventional MRI to Augment Radiotherapy in Prostate Cancer. Imaging Applications in Prostate Cancer Workshop. London. 2008

Precision and Accuracy of MRI-Guided Therapeutics. Downtown Imaging Physics Seminar, Toronto. 2009

Milosevic, Michael

Vascular, Interstitial Fluid and Oxygen Dynamics in Tumors: Clinical implications. Workshop on New Developments in Molecular Imaging for Translational Research and Clinical Applications, OncoRay – Center for Radiation Research in Oncology, Dresden, Germany. 2008

Angiogenesis, Interstitial Fluid Dynamics and Hypoxia in Tumors. Workshop on Growth and Control of Tumors: Theory and experiments, Field's Centre for Mathematical Medicine, Toronto. 2008

Improving the Effectiveness of Radiation and Chemotherapy: Molecular targeting of angiogenesis and hypoxia in human tumors. Vanderbilt Integrative Cancer Biology Center Workshop, Mathematical Oncology, Through the Mathematical Looking Glass, Toronto. 2008

Imaging Tumor Vasculature and Hypoxia in Radiation Oncology. Canadian Association of Radiation Oncology Annual Meeting, Montreal. 2008

Angiogenesis and Hypoxia in Prostate Cancer: Relevance to radiotherapy and biological treatment targeting. Royal Australian and New Zealand College of Radiologists Annual Meeting, Adelaide, Australia. 2008

Individualized Adaptive Radiotherapy: The next frontier in radiation medicine? Royal Australian and New Zealand College of Radiologists Annual Meeting, Adelaide, Australia, 2008

Contouring for Post-Prostatectomy Radiotherapy. Keynote International Speaker 59th Annual Scientific Meeting of the Royal Australian and New Zealand College of Radiologists Adelaide, Australia. 2008

Radiation Oncology in Canada: Annual Canadian Association of Radiation Oncology Workload and Staffing Survey. Meeting of the National Specialty Societies of Canada with the Royal College of Physician and Surgeons of Canadian, Toronto. 2008

Concurrent Radio- and Chemotherapy for Cervix Cancer: Selective benefit of cisplatin in patients with high initial interstitial fluid pressure (IFP). 4th International Conference on Translational Research and Pre-Clinical Strategies in Radiation Oncology, Geneva, Switzerland. 2009

Advances in the Treatment of Kidney Cancer: A new look at radiation therapy. Kidney Cancer Canada, Toronto. 2008

Hypoxia and Angiogenesis in Cervix Cancer: Opportunities and challenges. Radiation Oncology Research Rounds, Odette Cancer Centre, Toronto. 2008

Moline, Karen

Interprofessional Collaboration Session for Therapy Students. Spiritual Care Workshop, Odette Cancer Centre, Toronto. 2009

Morton, Gerard

Timing of Androgen Deprivation as Salvage Treatment. Radiotherapy Group of New South Wales, Sydney, Australia. 2008

Invited speaker, Australasian Brachytherapy Group, Sydney, Australia. 2008

Prostate Brachytherapy: Reducing the therapeutic ratio. Opening address at the 30th Annual Meeting of the American Brachytherapy Society, Toronto. 2009

Prostate High Dose-Rate Brachytherapy: A hands-on workshop. 30th Annual Meeting of the American Brachytherapy Society, Toronto. 2009

Moseley, Douglas

Conference on the Effective use of High Performance Workstations in Scientific Computing. Fields Institute Research in Mathematical Science, Toronto. 2008

User Interfaces for Visualizing Complex Data. Workshop presented at the International Conference hosted by the IBM Centers for Advanced Studies (CASCON), workshop, Toronto. 2008

Modern Radiation Therapy: Image is everything. Fields workshop, University of Toronto, Toronto. 2008

Presenter, Regional Cancer Program Open House, Southlake Regional Health Centre, Toronto. 2008

The Technology of Radiation Therapy. Cancer Education Series, Southlake Regional Health Centre, Toronto. 2009

Introduction to Radiation Therapy. Volunteer Workshop, Southlake Regional Health Centre, Toronto. 2009

Nyhof-Young, Joyce

Clothing for Lymphedema, Chicagoland Lymphedema Network, North Shore University Health System, Rehabilitation Services, Lymphedema Center, Glenview, USA. 2008

Empowering Breast Cancer Patients: With, through and beyond. Invited Public Lecture to Learning Unlimited Etobicoke, Medical Fall Series, Etobicoke. 2008

Simulating Clinical Electives for Undergraduate Medical Students: The Virtual Experience in Radiation Oncology (VERO). Health Professions Education: Global Best Practices in Simulation, Toronto. 2009

Empowering Breast Cancer Patients Through Medical Student Research: The DOCH2 approach. Princess Margaret Hospital, Clinical Breast Rounds, Toronto. 2009

Career Panelist, Canadian Medical Hall of Fame Discovery Day in Health Sciences, University of Toronto, Toronto. 2009

Survivorship – Empowering breast cancer survivors with, through, and beyond. Updates in Oncology, Regional Cancer Program, Barrie. 2009

Chaplaincy and DOCH2: A great opportunity for applied research and program development! UHN Chaplaincy, Toronto. 2009

Osmar, Kari

A Competency Based Orientation Program. Toronto Radiation Medicine Conference, Toronto. 2009

Using Small Group Discussion to Investigate Caring in Light of Technology Change in Radiation Therapy with Radiation Therapists. Engaging Reflection Conference, London, Ontario. 2009

An Introduction to Radiation Therapy. Oncology Nursing Day, York Central Hospital, Toronto. 2009

O'Sullivan, Brian

Radiation Medicine Quality Standards for Head and Neck Oncology. International Head and Neck Cancer Conference, San Francisco, USA. 2008

Early Laryngeal Cancer: Introduction, disease description and management approaches. International Head and Neck Cancer Conference, San Francisco, USA. 2008

Does Genetic and Molecular Information Trump Anatomic Disease Extent? Symposium on cancer classification, staging and prognosis at International Union for Cancer Control, World Cancer Congress 2008, Geneva, Switzerland. 2008

What is the Standard of Care for Unresected Locally Advanced HNSCC? Radiotherapy and a targeted agent with or without chemotherapy? European Society of Radiation Oncology Annual Meeting, Göteborg, Sweden. 2008

How to Give a Talk. Annual Scientific Seminar of the Association of Residents In Radiation Oncology. American Society of Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Education Course: Nasopharynx Cancer. American Society of Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Challenges in Realising the Benefits of Targeted Treatment for Head and Neck Cancer. Saint Lukes Hospital visiting professor lecture, Dublin, Ireland. 2008

NPC: Head and neck's most unusual mucosal cancer. Saint Lukes Hospital visiting professor lecture, Dublin, Ireland. 2008

Radiotherapy: Why, when & how? Symposium on Multiple Disciplines in Sarcoma Management, Annual Scientific Meeting of the Faculty of Radiologists, Royal College of Surgeons in Ireland, Dublin, Ireland. 2008

An Introduction to IMRT in Head & Neck Cancer in Symposium on New Technology in Radiation Oncology. Annual Scientific Meeting of the Faculty of Radiologists, Royal College of Surgeons in Ireland, Dublin, Ireland. 2008

The Honorary Fellow's Lecture to the Faculty of Radiologists: Diagnostic & therapeutic radiology in the multidisciplinary management of soft tissue sarcomas. Annual Scientific Meeting of the Faculty of Radiologists, Royal College of Surgeons in Ireland, Dublin, Ireland. 2008

Current Approaches to the Treatment of Soft Tissue Sarcoma. Brazilian Society of Radiation Oncology Annual Meeting, Recife, Brazil. 2008

Treatment of Primary and Recurrent Tumors of the Nasopharynx. Brazilian Society of Radiation Oncology Annual Meeting, Recife, Brazil. 2008

Impact of IMRT in the Treatment of Head and Neck Tumors. Brazilian Society of Radiation Oncology Annual Meeting, Recife, Brazil. 2008

Nasopharyngeal Cancer: State of the art. Cancer 2008:XVII Congreso Colombiano de Cancerología, Cali, Colombia. 2008

Multidisciplinary Management of Head and Neck Cancer. Panel discussant, Cancer 2008:XVII Congreso Colombiano de Cancerología, Cali, Colombia. 2008

Interdisciplinary Management of Soft Tissue Sarcoma. Cancer 2008:XVII Congreso Colombiano de Cancerología, Cali, Colombia. 2008

Radiotherapy of Sarcoma. Invited Discussant, Connective Tissue Oncology Society Annual Meeting, London, United Kingdom. 2008

Lessons Learnt from Experience of Conducting Clinical Trials – How to ensure successful completion and quality control. Scientific Symposium on Clinical Trials for Nasopharyngeal Cancer - The Hong Kong Nasopharyngeal Cancer Study Group and Central Coordination Committee (Clinical Oncology) Hospital Authority, Hong Kong. 2008

Developments in Radiation Therapy for Sarcoma. British Sarcoma Group Conference, Marriott Hotel, Glasgow, Scotland. 2009

Pre-operative and Innovative Radiotherapeutic Strategies for Retroperitoneal Sarcoma. American Society of Clinical Oncology Educational Session Retroperitoneal Sarcoma: Surgery and Beyond. American Society of Clinical Oncology Annual Scientific Meeting, Orlando, USA. 2009

Benefits and Challenges of Multi-modality Approaches in the Management of Head & Neck Cancer. Head And Neck Session: Target Insight III, University of Toronto, Department of Radiation Oncology, Toronto. 2009

Molecular Targeting of NPC with Monoclonals and Small Molecules: Challenges, rationale, and present status. International Symposium on Nasopharyngeal Carcinoma, Atlas Marrakech Hotel, Marrakech, Morocco. 2009

Palmer, Cathryne

Getting Grounded: An introduction to qualitative research. Canadian Association of Radiation Oncology Annual Meeting, Montreal. 2008

Clinical Remediation Processes and Strategies for Supporting Radiation. Therapy Student Success, Radiotherapy in Practice 4 Conference, Sheffield, United Kingdom. 2008

Electronic Portal Imaging Using Cherenkov Radiation. SPIE Conference on Physics of Medical Imaging, San Diego USA. 2008

Just-in-time Tomography. Canadian Organization of Medical Physicists Annual General Meeting, Quebec. 2008

Paszat, Lawrence

A Case-control Study of Mammography Screening Among Women Under Age 50. Union International Contre le Cancer, Geneve, Suisse. 2008

Biomarkers of Gastric Cancer Risk and Vaccine Targets, Clinical Epidemiology / Institute for Clinical Evaluative Sciences Rounds, Toronto. 2009

Modifiable Aspects of Radiotherapy for Breast Cancer Associated with Increased Risk of Myocardial Infarction: A study of the entire population of women who received radiotherapy for breast cancer in Ontario (Canada) 1982 – 1988, PREVENT conference. European Society for Radiotherapy and Oncology, Bruxelles, Belgique. 2009

Pignol, Jean-Philippe

Curietherapie and Implants in the Treatment of the Elderly with Breast Cancer. Meeting of the International Society of Geriatric Oncology, Montreal. 2008

Poon, Ian

Pilot Study to Assess Intra-Treatment FDG-PET Parameters that Predict for Loco Regional Control in Advanced Head and Neck Cancer Treated with Chemoradiation. Canadian Association of Radiation Oncology Annual Meeting, Montreal. 2008

Ringash, Jolie

American Society for Therapeutic Radiation and Oncology Intestinal Cancers Symposium, Orlando, USA. 2008

Minimal Important Difference: Can we generalize? PROBE Kick-off Meeting, European Organization for Research and Treatment of Cancer Quality of Life Committee, Brussels, Belgium. 2008

The NCIC-CTG QOL Committee. PROBE meeting, European Organization for Research and Treatment of Cancer Quality of Life Committee, Brussels, Belgium. 2008

Case Study #2: SR.2. National Cancer Institute of Canada Clinical Trials Group, Quality of Life Committee Educational Workshop, Toronto. 2008

Quality of Life in the Era of Chemoradiation. Princess Margaret Hospital Conference: Developments in Cancer Management: Conquering Cancer in our Lifetime, Toronto. 2008

Oral Cancer: Long-term toxicity and quality of life. Panelist: Treatment Morbidities and Survivorship. International Academy of Oral Oncology, World Congress, Toronto. 2009

Quality of Life Measurement in NCIC-CTG Clinical Trials. National Cancer Institute of Canada – Clinical Trials Group annual spring meeting, Clinical Research Associate Lecture, Toronto. 2009

Rowlands, John

Noise, Quantum noise and Psychophysics: Their role in medical imaging. University of Toronto, Mississauga. 2008

X-ray integrated along/within MRI. Society for Cardiovascular Magnetic Resonance Annual Scientific Session, Orlando, USA. 2009

Low Cost X-Ray Technology, Genesys Capital, Toronto Technology Access Partnership, Toronto. 2009

Sahgal, Arjun

Stereotactic Body Radiotherapy (SBRT) for Spinous Metastases: Preliminary experience at the University of California, San Francisco. Canadian Association of Radiosurgery, Mt. Tremblant. 2008

Preliminary Guidelines for Avoidance of Radiation Induced Myelopathy Following Spine Stereotactic Body Radiosurgery (SBRS). Canadian Association of Radiation Oncology Annual Meeting, Montreal. 2008

Preliminary Guidelines for Avoidance of Radiation Induced Myelopathy Following Spine Stereotactic Body Radiosurgery (SBRS). American Society of Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Stereotactic radiotherapy for juxtapapillary choroidal melanoma 3 year follow-up. American Radium Society, Vancouver. 2009

The treatment of radiation induced myelopathy with hyperbaric oxygen. American Radium Society, Vancouver. 2009

Spinous Stereotactic Body Radiosurgery (SBRT): How, when and the risk, and current concepts in the molecular aspects of radiation induced myelopathy. Canadian Association of Radiation Oncology Annual Meeting, Montreal. 2008

Spinal Cord Tolerance Following Spine Radiosurgery. American Society of Therapeutic Radiology and Oncology Annual Meeting: Spine Radiosurgery Workshop, Boston., USA. 2008

Radiation Myelopathy Following Hyperbaric Oxygen. Toronto Hyperbaric Medicine Symposium. University of Toronto, Toronto. 2008

Radiosurgery of the Spine and Radiation Tolerance of the Spinal Cord. E. Harry Botterell Lectureship in Neurosurgery., The Toronto Western Hospital, University of Toronto. 2008

Technologies for Spine Mets: Does more pain mean more dose? The Science and Art of Pain and Symptom Management, Annual Conference, University of Toronto, Toronto. 2008

Spinal Radiosurgery- Update and proposal for a new clinical trial. University of Toronto City-wide neuro-oncology rounds. Toronto. 2008

Stereotactic Body Radiotherapy for Spinal Metastases. Division of Rheumatology and Orthopedics Grand Rounds. University of Toronto, Toronto. 2009

Inter and Intrafractional Motion for Spine Stereotactic Body Radiotherapy and the Dosimetric Impact. International Symposium on Stereotactic Body Radiation Therapy and Stereotactic Radiosurgery. Orlando, USA. 2009

Is Radiation the Best Treatment for Anaplastic Oligodendroglioma or Does it Just Melt Brains. Division of Neurology, J.C. Richardson Neurology Subspecialty Day, University of Toronto, Toronto. 2009

The Multidisciplinary Management of Spinal Metastases. Kyphon Bolloon Kyphoplasty Clinical Update Symposium, Toronto. 2009

Stereotactic Body Radiotherapy for Spinal Metastases. St. Michael's Hospital Neurosciences Grand Rounds, University of Toronto. 2009

Overview of What is New in Nonsurgical Treatment of Metastatic Spinal Disease-When to consider radiosurgery. Annual Canadian Contemporary Spinal Techniques Course, University of Toronto. 2009

Sharpe, Michael

Implementing IMRT in Clinical Practice. American Society for Therapeutic Radiology and Oncology Practicum, Orlando, USA. 2008

IGRT Practicum. American Society for Therapeutic Radiology and Oncology, Newport, USA. 2008

Experience, Opportunities, and Challenges with Advanced Radiation Therapy Technologies. Know the Difference Symposium, Elekta Oncology Systems, London and Leeds, United Kingdom. 2008

Experience with IGRT Research, Development, and Clinical Implementation. American Association of Physicists in Medicine Annual Meeting, Houston, USA. 2008

Target Localization Systems for Radiation Therapy Treatment, A Continuing Education Symposium at the American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston, USA. 2008

Advances in Technology. American Society for Radiation Oncology, Chandler, USA. 2009

Sheikh, Aisha

Conflict in Professional Life. An IPE Ethics Seminar/Workshop for Third Year Medical Students, Final Year Nursing and Social Work Students, Office of Interprofessional Education, Faculty of Medicine, University of Toronto, Toronto. 2008

Siewerdsen, Jeffrey

Cone-Beam CT for Image-Guided Interventions, Medical Image Computing and Computer Assisted Intervention Society, International Symposium, London, UK. 2009

C-Arm Volumetric CT in Interventional Procedures: The physics perspective. American Association of Physicists in Medicine, Annual Meeting, Anaheim, USA. 2009

Imaging and Guidance for Minimally Invasive Therapies. American Association of Physicists in Medicine Annual Meeting, Anaheim, USA. 2009

Image Quality and Image Processing: A Categorical review for the research and clinical medical physicist, Annual Meeting of the American Association of Physicists in Medicine, Anaheim, USA. 2009

Image-Guided Interventions. Imaging Network Ontario, Toronto. 2008

Image Quality in Flat-Panel Detector CT, Categorical Course on CT and MRI. 2008 Meeting of the Radiological Society of North America, Chicago, USA. 2008

Multi-Modality and Multi-Dimensional Imaging. American Association of Physicists in Medicine Annual Meeting, Houston, USA. 2008

Image-Guided Interventions: From fundamentals to new frontiers. The American Association of Physicists in Medicine Annual Meeting, Houston USA. 2008

Sinclair, Emily

Minimally Invasive Surgical Procedures for Palliative Bone Metastases. Humber Annual Provincial Conference on Palliative and End of Life Care, Toronto. 2009

How to Recommend which Minimally Invasive Surgical Procedures for Bone Metastases Patients. Bonus 4 Conference, Princess Margaret Hospital, Toronto. 2009

Spayne, Jacqueline

Indications for Resection or Ablation of Metastases in Lung Cancer. Lung Rounds, Odette Cancer Centre, Toronto. 2008

Grand Rounds Presentation; Advanced Cancer – Advanced Care; An overview of the locally advanced breast cancer program. Grand Rounds Presentation, Sunnybrook Health Sciences Centre, Odette Cancer Centre, Toronto. 2008

Sun, Alex

Clinical Trials Education and Recruitment Committee (CTER) presentation. Radiation Therapy Oncology Group – National Cancer Institute/National Institutes of Health Grant Renewal Site Visit, Bethesda, USA. 2008

Szumacher, Ewa

Effectiveness of Educational Intervention on the Congruence of Prostate and Rectal Contouring as Compared to a Gold Standard in Three-Dimensional Radiotherapy for Prostate Cancer. Canadian Association of Radiation Oncology Annual Meeting, Montreal. 2008

Canadian Patterns of Practice in Adjuvant Radiotherapy for Elderly Women with Stage 1 Breast Cancer. 31st Annual San Antonio Breast Cancer Symposium, San Antonio, USA. 2008

Phase II Clinical Trial of Single Fraction High Dose-Rate Brachytherapy and Hypofractionated External Beam Radiotherapy – Men with Intermediate Risk Carcinoma of the Prostate. American Society of Clinical Oncology GU Meeting, Orlando, USA. 2009

Canadian Patterns of Practice in Adjuvant Radiotherapy for Elderly Women with Stage I Breast Cancer. Annual San Antonio Breast Cancer Symposium, San Antonio, USA. 2008

Survival of Off Protocol Patients Treated with Radiosurgery for Recurrent Brain Metastases: An intent to treat analysis. UK Research Office Conference, Cardiff, Wales. 2009

Collaborating Across Borders: Building bridges between interprofessional education & practice through continuing education in academic cancer centre. Clinical and Scientific rounds (R-3) and Interprofessional Radiation Oncology Rounds, Association for Medical Education in Europe, Malaga, Spain. 2009

Collaborating Across Borders: Building bridges between interprofessional education & practice through continuing education in academic cancer centre. Clinical and Scientific rounds (R-3) and Interprofessional Radiation Oncology rounds, American Society for Therapeutic Radiology and Oncology, Chicago, USA. 2009

Thomas, Gillian

Neoadjuvant Treatment in Cervical Cancer. European Society for Therapeutic Radiology and Oncology, Göteborg, Sweden. 2008

Combination Treatment in Cervical Cancer. European Society for Therapeutic Radiology and Oncology, Göteborg, Sweden. 2008

Concurrent Chemo- Radiation in Gynaecologic Cancers, Presidential Symposium: Clinical Applications of Platinum Based Chemo-Radiation: Selection, Sequencing and Scheduling. American Society for Therapeutic Radiology and Oncology Annual Meeting, Boston USA. 2008

Advances in Chemoradiation and Chemotherapy, Presidential Focused Course in Cervical Cancer. International Gynecologic Cancer Society Biennial Meeting, Bangkok, Thailand. 2008

Adjuvant Radiotherapy in Cervical Cancer: RT alone or concurrent chemo radiation? International Gynecologic Cancer Society Biennial Meeting, Bangkok, Thailand. 2008

Adjuvant Radiation in Endometrial Cancer: When, why, and how? International Gynecologic Cancer Society Biennial Meeting, Bangkok, Thailand. 2008

Fellows / Junior Gynecologic Oncologists Teaching Course, International Gynecologic Cancer Society Biennial Meeting, Bangkok, Thailand. 2008

Endometrial Cancer: Role of adjuvant radiotherapy vs chemotherapy. British Gynecology Cancer Society, Liverpool, UK. 2008

Risk Based Management of Early Endometrial Cancer. University of Hong Kong Hospital, Hong Kong. 2009

Treatment of Cervical Cancer: Past, present and future. Obstetrics and Gynecological Society of Hong Kong, Hong Kong. 2009

Case Presentation and Expert Discussion FIGO 2B: Which patients are suitable for surgery and which patients should receive radiotherapy? European Congress: Perspectives in Gynecologic Oncology, Nice, France. 2009

Cisplatin /Paclitaxel is the Treatment of Choice for Recurrent, Metastatic Carcinoma of Cervix. Con Position. Sixth International Symposium on Ovarian cancer and other Gynecologic Malignancies, New York, USA. 2009

Tsang, Richard

Stage IE and IIE Extranodal MALT Lymphomas: Outcome following radiotherapy. The first Symposium of Sino-American Network for Therapeutic Radiology and Oncology, Chinese Society of Therapeutic Radiology and Oncology Symposium proceedings. Grand Epoch City, Beijing. 2008

Ung, Yee

Adjuvant Radiotherapy for Gastric Cancer: The geometric challenge. Canadian Association of Radiation Oncology Annual Meeting, Montreal. 2008

Defining the Appropriate PET Intensity Threshold and CT Threshold for Target Delineation in Early Stage Non-Small Cell Lung Cancer: a radiological and pathological correlation study. American Society for Therapeutic Radiology and Oncology, Boston, USA. 2008

The Challenge of Lung Cancer Treatment. Philips Meeting, Boston, USA. 2008

Lung Cancer in the North American Chinese: Smoking is not the only cause! 14th International Conference on Health Care of the Chinese in North America: Emerging Health Issues Among North American Chinese, Toronto. 2008

Evidence Based Role for PET CT in Lung Cancer: The Ontario Experience. Atlantic Clinical Oncology Group (ACOG) Meeting, Charlottetown. 2009

The Role of PET in Lung Cancer. Visiting Speakers Program, McGill University, Montreal. 2009

PET in Lung Cancer, Target Insight Meeting, Toronto. 2009

Vesprini, Danny

PET/CT in Radiotherapy Planning of Esophageal Cancer. Ontario Thoracic Cancer Conference, Niagara-on-the-lake. 2009

Vines, Douglass

PET/CT Research in Radiation Oncology at PMH. GE Healthcare Multi-Modality Educational Symposium, Halifax. 2008

Vitkin, Alex

Polarized Light Assessment of Biological Tissues Using Mueller Matrix Decomposition, European Conference on Biomedical Optics, Munich, Germany, 2009

High-Resolution Structural and Functional Imaging of Tissues with Doppler Optical Coherence Tomography, SAOT Clinical Biophotonics Workshop, Erlangen, Germany, 2009

Light in Biomedicine – The Basics, The Applications, The Challenges, Physics Lecture Series, University of Cyprus, Nicosia, Cyprus, 2009

Polarimetry in Turbid Media – Using Mueller Matrix Decomposition For Unique Feature Determination, East Carolina University, Physics Colloquium, Greenville, North Carolina, USA. 2009

Imaging Blood Flow in Tissues for Therapy Monitoring Applications, Brody School of Medicine, Greenville, NCarolina, USA. 2009

Biomedical Optics – Fundamentals and Applications, Waterloo Lecture Series in Medical Physics, Waterloo, Canada. 2009

Polarized Light Diagnostics in Turbid Media, Laser Applications in Life Sciences, Taipei, Taiwan. 2008

Optical Diagnostics in Biomedicine, SPIE Visiting Lectureship Series, National Taiwan University, Taipei, Taiwan. 2008

Using the Wave Nature of Light to Examine Tissues – Polarimetry and Optical Coherence Tomography, Clinical Photonics Rounds, Friedrich-Alexander Universität, Erlangen-Nürnberg, Germany. 2008

Progress in Polarization-Based Optical Diagnostic Technique, Center for Optics, Photonics, and Lasers rounds. Université Laval, Quebec City, Canada. 2008

High-Resolution Imaging of Tissue Microvasculature – Diagnostic, Therapeutic and Basic Science Applications, COMP Annual Conference, CCPM Biophotonics Symposium, Quebec City, Canada, 2008

Overview of Biophotonics, Diffusion-Wave Technologies seminar, Mechanical Engineering, Toronto, Canada. 2008

Polarized Light Assessment of Biological Tissues, Harvard Medical School / Mass General Hospital Photomedicine Rounds, Boston, USA. 2008

Microstructural and Microvascular Tissue Imaging with Doppler Optical Coherence Tomography, Lawson Imaging Institute, Medical Imaging Rounds, London, Canada. 2008

Light at the End of the Tunnel – Endoscopic Uses of Optical Coherence Tomography, University of Houston Biomedical Engineering seminar, Houston, USA. 2008

Making Therapies Less Blind – Real-Time Treatment Feedback with Doppler Optical Coherence Tomography, Image-Guided Therapeutics colloquium, University Health Network, Toronto, Canada. 2008

Warde, Pdraig

Seminoma: From more to less. Developments in Cancer Management: Conquering cancer in our lifetime. Princess Margaret Hospital Conference: Developments in Cancer Management: Conquering cancer in our lifetime, Toronto. 2008

Image-Guided Radiotherapy for Cancer. Highlights in Oncology. Centro di Riferimento Oncologico National Cancer Institute, Aviano, Italy. 2009

Prostate Cancer – Something Old, Something New. GU Rounds, London Regional Cancer Centre, London. 2009

Wiljer, David

Social Networking in Cancer Care: A new paradigm for CDM. International Union for Cancer Control, Geneva, Switzerland. 2008.

How Much is Too Much information? Understanding the impact of access to personal health information on breast cancer patients. Odette Cancer Centre, Oncology Grand Rounds, Toronto. 2008

Patient Access to Personal Health Information: Exploring the impact on self-efficacy and anxiety. COACH e-Health Conference 2009: Leadership in Action, Quebec City. 2009

From Information to Action: A new paradigm for health information. Masters Seminar for Consumer Health Informatics and Public Health Informatics MHI2003H: Health Policy Management and Evaluation, University of Toronto. 2009

One Patient, One Record. One day symposium to promote patient e-Health, The creation of InfoWell, Toronto. 2009

Awards 2008-2009

UT DRO Faculty Education Awards

Postgraduate Advocacy & Mentorship

Eileen Rakovitch

MRS Excellence in Research Supervision

Caitlin Gillan

MRS Excellence in Clinical Supervision

Kulwinder Flora

MRS Excellence in Classroom Teaching

Terri Flood

Postgraduate Classroom Teaching

Stephen Breen

Postgraduate Medical Education Excellence in Research Supervision

Michael Milosevic

MRS Excellence in Clinical Supervision

Rhonda Gannon

MRS Best Guest Lecture

Rebecca Wong

UT DRO Faculty Research Awards

Sustained Excellence in Research

Robert Bristow

Outstanding Research Potential

Arjun Sahgal

Excellence in Research Leadership

Rebecca Wong

Best Annual Research Performance

Gregory Czarnota

Other Awards and Honours

Toni Barnes

- Cancer Care Ontario: Quality Award for the Rapid Response Radiotherapy Program, Odette Cancer Centre, Sunnybrook Hospital, 2008

Stephen L Breen

- Third Place Prize for a Technologist Poster, Technologist Section of the Society of Nuclear Medicine, 2008

Robert Bristow

- Excellence in Postgraduate Medical Education: Teaching Performance, Mentorship and Advocacy, Faculty of Medicine, University of Toronto, 2009

Angela Cashell

- Beth Wastle Research Bursary, Ontario Association of Medical Radiation Technologists (OAMRT), 2008

Charles Catton

- Radiation Oncology Research Productivity Award, Radiation Medicine Program, Princess Margaret Hospital, 2008

Edward Chow

- Excellence in Research Leadership, Department of Radiation Oncology, University of Toronto, 2008
- Cummings Education Leadership Award, Department of Radiation Oncology, University of Toronto, 2008
- Quality Award to Rapid Response Radiotherapy Program by Cancer Care Ontario, Cancer Quality Council of Ontario and Canadian Cancer Society, 2008

James Chow

- Dean's Fund, 2008

Gregory Czarnota

- Early Researcher Award, Ministry of Research and Innovation, 2009
- Research Chair in Imaging and Experimental Therapeutics, Cancer Care Ontario, 2009
- Academic Merit Award, Radiation Oncology, 2008

Young-Bin Cho

- Best Oral Presentation, Canadian Organization of Medical Physicists Annual Meeting, 2008

Cyril Danjoux,

- Cancer Care Ontario: Quality Award for the Rapid Response Radiotherapy Program, Odette Cancer Centre, Sunnybrook Hospital, 2008

Carol Gilles

- Philips Exhibit Award, Canadian Association of Medical Radiation Technologists, 2008

Harald Keller

- Third Place Prize for a Technologist Poster, Technologist Section of the Society of Nuclear Medicine, 2008

Andrew Loblaw

- Frank Ellis Medal, Royal College of Radiologists, 2009
- Flims Grant, Fellow awarded First Annual Canadian Radiation Oncology Foundation, 2009

Cynthia Menard

- New Investigator Award, Canadian Institutes of Health Research (CIHR), 2007-2012
- Most Influential Research Publication, Radiation Medicine Program- Princess Margaret Hospital, 2008

Karen Moline

- Champions of Care Award, The Sunnybrook Foundation, 2008
- Philips Exhibit Award, Canadian Association of Medical Radiation Technologists, 2008

Joyce Nyhof-Young

- Best Paper Award: Design and Aesthetics Track, International Textile and Apparel Association (ITAA), 2008
- Best presentation, Health Care category, Ontario Medical Student Research Day, 2009

Brian O'Sullivan

- Best Annual Scientific Rounds, Radiation Medicine Program, Princess Margaret Hospital, University of Toronto, 2009
- Honorary Fellow of the Faculty of Radiologists, Royal College of Surgeons in Ireland (FFRRC SI, Hons), 2008

Cathryne Palmer

- David Fear Fellowship nominee, University of Toronto (CEPD), 2008

Ringash, Jolie

- Research Project Supervisor Award Recipient, Princess Margaret Hospital Radiation Medicine Programme Annual Education Awards, 2008
- Best Poster Award (Zahra Kassam), University of Toronto Resident Research Day, 2008
- AstraZeneca Exhibit Prize (Karen Wong), Royal Australian and New Zealand College of Radiologists (RANZCR), 2008
- PSI Resident Research Award (Louis Fenkell), Physician Services Incorporated. Foundation, 2008

Rosewall Tara

- Nursing and Professional Services Staff Scholarship, University Health Network, 2008-2009
- Research Productivity Award. Radiation Medicine Program, Princess Margaret Hospital, 2008

Arjun Sahgal

- Best Research Project Supervisor Award, Department of Radiation Medicine, Princess Margaret Hospital, 2009
- Cancer Care Ontario: Quality Award for the Rapid Response Radiotherapy Program, Odette Cancer Centre, Sunnybrook Hospital, 2008

Emily Sinclair

- Cancer Care Ontario: Quality Award for the Rapid Response Radiotherapy Program, Odette Cancer Centre, Sunnybrook Hospital, 2008

Jeffrey Siewerdsen

- Laidlaw Manuscript Award, Institute of Medical Sciences, University of Toronto, 2008
- Magna Cum Laude Presentation Award, Society for Thoracic Radiology, 2008
- Michael B. Merickel Best Student Paper Competition, First Place. SPIE Medical Imaging, 2008

Alexander Sun

- Third Place Prize for a Technologist Poster, Technologist Section of the Society of Nuclear Medicine, 2008

Gillian Thomas

- Award for Excellence, International Gynecologic Cancer Society (IGCS), 2008

May Tsao

- Cancer Care Ontario: Quality Award for the Rapid Response Radiotherapy Program, Odette Cancer Centre, Sunnybrook Hospital, 2008

Douglass Vines

- Best Paper Award for 2007, First Place for the Journal of Nuclear Medicine Technology, Technologist Section of the Society of Nuclear Medicine, 2008
- Third Place Prize for a Technologist Poster, Technologist Section of the Society of Nuclear Medicine, 2008

Alex Vitkin

- Exceptional Research Support Award, The Radiation Medicine Program, Princess Margaret Hospital, 2008
- Premier's Research Excellence Award, University of Toronto, 2003-2008

Ivan Yeung

- Best Oral Presentation, Canadian Organization of Medical Physicists, 2008
- The John S. Laughlin-Science Council Research Symposium presentation, American Association of Physicists in Medicine (AAPM), 2008

Bradly Wouters

- Michael Fry Award, American Society of Therapeutic Radiology and Oncology, 2008

Research Day - May 9, 2009

Oral Presentations

Gaurav Bahl, Radiation Oncology Fellow

A population-based study of medulloblastoma in Ontario.

Supervisor: D. Hodgson

Endocrine complications in children treated for medulloblastoma or ependymoma using radiation therapy: Outcomes in the CT-planning era.

Supervisor: N. Laperriere

Amanda Caissie, Radiation Oncology Resident

Ultrasound-activated microbubbles as novel radiosensitizers with vascular disrupting effects.

Supervisor: S. Wong; G. Czarnota

Daria Comsa, Medical Physics Resident

Efficient treatment delivery of lung stereotactic body radiation therapy (SBRT) using volumetric modulated arc therapy (VMAT).

Supervisor: D. Moseley

Supriya Chopra, Radiation Oncology Fellow

Technical development of MRI voxel to biopsy co-localization in patients with prostate cancer.

Supervisor: C. Ménard

Jenny Forrest, Radiation Oncology Fellow

Treatment outcomes for patients with advanced cervical cancer treated with 'GOG Protocol compatible' definitive chemo-radiotherapy and HDR brachytherapy.

Supervisor: G. Thomas

Meredith Giuliani, Radiation Oncology Resident

Resident assessment using multi-source feedback in the CanMEDS era: The development of user-centered assessment tools.

Supervisor: P. Catton

Alfonso Gomez-Iturriaga, Radiation Oncology Fellow

Iodine 125 brachytherapy (BT) as monotherapy in patients aged ≤ 55 years with localized prostate cancer.

Supervisor: J. Crook

Adrian Ishkanian, Radiation Oncology Resident

Array CGH identifies high-frequency copy number alterations in DNA damage sensing and repair pathways and predicts for biochemical recurrence in intermediate risk prostate cancer.

Supervisor: R. Bristow

Alex Karotki, Medical Physics Resident

Using PET for defining internal target volume in lung cancer.

Supervisor: K. Mah

Caroline Lavoie, Radiation Oncology Fellow

Improvement of target coverage in radical lung radiotherapy using image guidance cone-beam CT (CBCT).

Supervisor: A. Bezjak

Eve-Lyne Marchand, Radiation Oncology Resident

Treatment planning with volumetric modulated arc therapy for stereotactic body radiotherapy (SBRT) of spinal/paraspinal tumours.

Supervisor: D. Létourneau

Andrea McNiven, Medical Physics Resident

3D deformable registration of the prostate from whole-mount histology to in vivo MRI.

Supervisor: K. Brock

Evaluation of a new metric for assessing IMRT modulation complexity and plan deliverability.

Supervisor: T. Purdie

Andrew Potter, Radiation Oncology Fellow

Factors influencing dose/fractionation choices for palliation of bone metastases.

Supervisor: R. Wong

Hany Soliman, Radiation Oncology Resident

Functional imaging of neoadjuvant chemotherapy response in women with locally advanced breast cancer using diffuse optical spectroscopy.

Supervisor: G. Czarnota

Christiaan Stevens, Radiation Oncology Fellow

Palliative radiotherapy for head and neck cancer: A retrospective, single-institutional review.

Supervisor: J. Ringash

Poster Presentations

Gaurav Bahl, Radiation Oncology Fellow

Intensity modulated radiation therapy for skull base chordomas and chondrosarcomas: Outcomes in the image-guided era.

Supervisor: N. Laperriere

Prognostic factors and outcomes for elderly patients with glioblastoma multiforme.

Supervisor: N. Laperriere

Radical radiation therapy in the management of radiation-induced meningiomas.

Supervisor: N. Laperriere

William Chu, Radiation Oncology Fellow

A pilot study of in vivo tumour imaging with hyperpolarized ¹³C-MRSI.

Supervisor: C. Cunningham; S. Wong; G. Czarnota

Caroline Chung, Radiation Oncology Fellow

Serial MRI imaging for the design and evaluation of xenograft intracranial brain tumour mouse models.

Supervisor: C. Ménard

David Fitzpatrick, Radiation Oncology Fellow

Defining the target for bone metastases – The impact of 3D planning CT.

Supervisor: R. Wong

Matthew Follwell, Radiation Oncology Resident

Is there an advantage to IMRT for hard to treat primary brain cancer?

Supervisor: A. Sahgal

Jenny Forrest, Radiation Oncology Fellow

IMRT compared with 4 field conformal pelvic radiotherapy for the definitive treatment of cervical carcinoma.

Supervisor: G. Thomas

Meredith Giuliani, Radiation Oncology Resident

Survival impact of prophylactic cranial irradiation in limited stage small cell lung cancer.

Supervisor: A. Hope

Jayant Goda, Radiation Oncology Fellow

A pilot study of γ H2AX DNA repair foci kinetics in peripheral blood lymphocytes during prostate cancer radiotherapy.

Supervisor: R. Bristow

High risk extracranial chondrosarcomas - Long term results of surgery and radiotherapy therapy.

Supervisor: P. Chung

Hodgkin lymphoma with relapsed or progressive disease after autologous stem cell transplantation: Efficacy of salvage radiation therapy.

Supervisor: R. Tsang

Alfonso Gomez-Iturriaga, Radiation Oncology Fellow

The efficacy of hyperbaric oxygen therapy in the treatment of medically refractory soft tissue necrosis after penile brachytherapy.

Supervisor: J. Crook

The impact of perineural invasion on biochemical outcome following permanent prostate ¹²⁵I brachytherapy.

Supervisor: J. Crook

Toxicity results and biochemical outcome in patients receiving D90 doses of 180Gy or higher after ¹²⁵I prostate brachytherapy.

Supervisor: J. Crook

Kathy Han, Radiation Oncology Resident

A comparison of two immobilization systems for stereotactic body radiation therapy (SBRT) of lung tumours.

Supervisor: P. Cheung

Comparison of helical, slow and average CT for radiation treatment planning and normal tissue contouring in stereotactic body radiotherapy of lung tumours.

Supervisor: P. Cheung

Intensity-modulated radiotherapy (IMRT) and concurrent chemotherapy (ChT) for anal and perianal cancer: Preliminary report of acute toxicity.

Supervisor: J. Kim

Justin Lee, Radiation Oncology Fellow

Detection of tumour response to radiotherapy and radiosensitization agent using quantitative non-invasive high frequency ultrasound.

Supervisor: G. Czarnota

Mark Lee, Radiation Oncology Fellow

Simplifying liver cancer intensity modulated radiation therapy (IMRT).

Supervisor: L. Dawson

Karen Lim, Radiation Oncology Fellow

Variability in delineation of clinical target volumes for cervix cancer intensity-modulated pelvic radiotherapy.

Supervisor: A. Fyles

Indranil Mallick, Radiation Oncology Fellow

Partial laryngeal irradiation in T1aN0M0 glottic cancer – Determination of PTV margins.

Supervisor: J. Waldron

Orla McArdle, Radiation Oncology Fellow

Fertility in young breast cancer survivors - Novel assessment of ovarian reserve.

Supervisor: D. Hodgson

Claire McCann, Medical Physics Resident

A robust IMRT optimization method for lung cancer, accounting for tissue heterogeneity and intra-fraction motion.

Supervisor: J-P. Bissonnette

Heather McCarty, Radiation Oncology Fellow

A pilot study to investigate the feasibility of using an intravaginal stent to prevent vaginal stenosis following radiation therapy for gynecologic cancer.

Supervisor: W. Levine

Dyspareunia after chemoradiation (Chemo-RT) for anal carcinoma – An under reported complication.

Supervisor: D. Hodgson

Sten Myrehaug, Radiation Oncology Resident

Hypofractionated radiotherapy for high-risk prostate cancer: Dosimetric comparison and acute clinical toxicity of two pelvic nodal volume delineation techniques.

Supervisor: A. Sahgal

Hypofractionated radiotherapy for high-risk prostate cancer: Dosimetric comparison of intensity modulated radiotherapy and volumetric modulated arc therapy.

Supervisor: A. Sahgal

Nikhilesh Patil, Radiation Oncology Fellow

Management of pituitary adenoma with stereotactic radiotherapy at Princess Margaret Hospital.

Supervisor: R. Tsang

Andrew Potter, Radiation Oncology Fellow

Dosimetric comparison of two-dimensional (2D) versus three dimensional (3D) planning for bone metastases.

Supervisor: R. Wong

Alexandra Rink, Medical Physics Resident

Investigation of discrepancy in reports on GafChromic EBT energy dependence.

Supervisor: P. Lindsay

Qiulin Tang, Radiation Oncology Fellow

Alternative methods of cone-beam CT image reconstruction for under-sampled and truncated projection data.

Supervisor: I. Yeung

Mojgan Taremi, Radiation Oncology Fellow

Princess Margaret Hospital experience with lung stereotactic body radiotherapy for early stage non-small cell lung cancer.

Supervisor: A. Bezjak

Amy Teh, Radiation Oncology Fellow

A feasibility study of intensity modulated radiation therapy for concomitant boost breast radiotherapy.

Supervisor: A. Fyles; F-F Liu; J. Cho

Timothy Yeung, Research Assistant

Assessment of liver tissue perfusion by dynamic contrast-enhanced computed tomography (DCE-CT) using a dual-input two-compartment model.

Supervisor: I. Yeung