



OCCUPATIONAL CANCER RESEARCH CENTRE (OCRC)

ANNUAL PROGRAM REPORT (2010-2011)

June 1, 2011



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SUMMARY

The Occupational Cancer Research Centre (OCRC), established in 2009, is based at Cancer Care Ontario and is jointly funded by the Workplace Safety and Insurance Board (WSIB), the Ontario Division of the Canadian Cancer Society (CCS), and Cancer Care Ontario (CCO). This document outlines the research, capacity building, knowledge exchange, and sustainability activities that took place in Year 2, according to the four strategies of the OCRC 5-Year Strategic Plan. The Year 2 activities do not deviate significantly from the Strategic Plan, which was developed and approved by the OCRC Steering Committee, consisting of representatives from the funding organizations, organized labour, employers, the Ministry of Labour, and the research community.

Strategy 1: Build a Research Program. The OCRC continued to build its research program in Year 2. Research projects were conducted in all areas of the research agenda (surveillance, causes, interventions). Scientists and staff worked on 17 projects, using a mix of research methods and collaborating with researchers in Ontario, elsewhere in Canada, the U.S., and Europe. Twelve projects that used the Centre's core funding and five new projects were funded through grants in 2010-11.

Strategy 2: Build Research Capacity. The OCRC continued to build research capacity in Ontario and Canada in its second year of operations. Priority areas were building and retaining a core research team, and recruiting and training students and post-doctoral fellows. By the end of the year, the Centre's core research team consist of a director, five affiliated Scientists, two Research Associates and two Junior Research Associates. Trainees included three graduate students and a post-doctoral fellow.

Strategy 3: Deliver and Exchange Knowledge. The profile of the OCRC in Ontario, nationally and internationally, was raised in 2010-11, particularly because of the new director. The OCRC Director presented at labour, health professional, academic, and other stakeholder events on the work of the Centre or occupational cancer research and prevention priorities. The OCRC also exchanged knowledge with stakeholders and created learning opportunities at its 2nd annual OCRC Research Day. A dedicated OCRC website was launched in June 2010 (<http://occupationalcancer.ca>), with information about the Centre, the OCRC team, research projects, publications, information resources, opportunities for students and events.

Strategy 4: Build a Sustainable Centre. We have developed a strong core of researchers, staff, and students with an effective infrastructure. As well, the reputation of the Centre is growing. The ultimate goal is to use the Centre's core funding as seed money or as leverage for additional research funding, and to fund Centre activities for which external funding is difficult to obtain, such as knowledge transfer and exchange. In the latter part of Year 2 we obtained more funding through external competitions and opportunities.



OVERVIEW OF OCRC ACTIVITIES AND ACCOMPLISHMENTS (2010-11)

The OCRC, established in 2009, is based at Cancer Care Ontario (CCO) and is jointly funded by the Workplace Safety and Insurance Board (WSIB), the Ontario Division of the Canadian Cancer Society (CCS), and CCO and was also developed in collaboration with the United Steelworkers. The goal of the OCRC is to fill the gaps in our knowledge of occupation-related cancers and use these findings to inform preventive programs to control workplace carcinogenic exposures and improve the health of workers.

The OCRC was productive in its first year of operations, despite a small core staff and an interim director. In Year 2 (2010-11), the focus of the Centre was on building its research capacity. By the end of Year 2, the OCRC had a full-time, permanent director, four affiliated scientists, core research staff and trainees, and an established governance structure. This document outlines the research, capacity building, knowledge exchange and sustainability activities that were accomplished by OCRC in Year 2 according to the four strategies of the OCRC 5-Year Strategic Plan, which was developed and approved by the Steering Committee of the Centre, consisting of representatives from the three funding organizations, organized labour, employers, the Ministry of Labour, and the research community. See Appendix A for a one-page summary of the OCRC Strategic Plan or visit the website to view the full report: <http://occupationalcancer.ca/aboutocrc/vision-strategic-direction/>. The Year 2 activities did not deviate significantly from the Year 2 plan outlined in the Strategic Plan.

1. BUILD A RESEARCH PROGRAM

The OCRC continued to build its research program in Year 2. Research projects were conducted in all areas of the research agenda (surveillance, causes, interventions). The Centre had 17 ongoing projects in 2010-11; 11 were new this year. A summary of the research projects that were underway using core funding (Table 1), a list of research projects that received external funding (Table 2), a list of publications (Table 3), conference and symposia presentations (Table 4), and stakeholder and other presentations (Table 5) can be found in Appendix B. Further descriptions of most ongoing research projects can be found on the OCRC website at: <http://occupationalcancer.ca/topics/projects/>.

This work meets the objectives related to building a research program in the OCRC's strategic plan. Scientists and staff of the Centre are publishing and presenting in all three of the Centre's areas of focus (surveillance, causes, interventions) using a mix of research methods. The Centre is developing a strong network of researchers of collaborators, including researchers from Ontario (Dalla Lana School of Public Health at the University of Toronto, Institute for Work & Health (IWH), Queens' University), elsewhere in Canada (Institut national de la recherche scientifique (INRS) and Institut de recherche Robert-Sauvé en santé et en sécurité du travail (IRSST) in Quebec, the University of Saskatchewan, CAREX Canada, the BC Cancer Agency, the Worksafe BC/UBC Partnership), and internationally (International Agency for Research on Cancer (IARC) in France, Centre for Research in Environmental Epidemiology (CREAL) in Spain, U.S. National Cancer Institute, Imperial College (London), Australian National University). The Centre is now developing a set of occupational cancer research priorities based on the results of the stakeholder



survey and data from CAREX Canada regarding the prevalence of exposure in Ontario, as well as on examining the priorities of recently-published reports from IARC, National Institute for Occupational Safety and Health (NIOSH), and the U.S. President's Cancer Panel.

2. BUILD RESEARCH CAPACITY

The OCRC continued to build research capacity in Ontario and Canada in its second year of operations. Priority areas were building and retaining a core research team, and recruiting and training students and post-doctoral fellows.

Research team

In September 2010, the permanent Director, Dr. Paul Demers, began working full-time at OCRC, taking over from the Interim Director, Dr. Aaron Blair. Once Dr. Demers arrived, he began building the Centre's core research team, with the goal of having a full complement of staff in 2011-12. In 2010-11, the team consisted of five Scientists, two Research Associates, and two Junior Research Associates, as follows:

- Dr. Paul Demers, Director
- Dr. Shelley Harris, Affiliated Scientist (0.75 externally funded by CCO)*
- Dr. Loraine Marrett, Affiliated Senior Scientist (externally funded by CCO)*
- Dr. John McLaughlin, Affiliated Senior Scientist (externally funded by CCO)*
- Dr. Aaron Blair, Affiliated Senior Scientist (former Interim Director, unfunded (retired from the U.S. National Cancer Institute))*
- Dr. Minh Do, Junior Affiliated Scientist (0.80 externally funded and based at the Public Health Agency of Canada)*
- Karin Hohenadel, Research Associate
- Marina Stegne, Research Associate (began in July 2010)
- Kate Jardine, Junior Research Associate (began in October 2010)
- Priyanka Raj, Junior Research Associate (began in December 2010)

* Affiliated scientists do not work full-time on OCRC projects, but each plays a significant, leading role in one or more OCRC projects (see Appendix B).

The research team is supported by a part-time Administrative Assistant (Yen Borrego) and a part-time Project Manager (Caroline Silverman).

Student training

In 2010-11, OCRC had three graduate students and a post-doctoral fellow working on Centre projects, as follows:

1) Manisha Pahwa, MPH student (Occupational and Environmental Health, University of Toronto) - began May 2010



- Working on “Cross-Canada study of pesticides and select cancers: New analyses”

2) Victoria Arrandale, PhD student (Medical Science, University of Toronto) – began July 2010

- Working on “Women and minorities in occupational cancer research” project and on the “Analysis of the MESU database and linkage with CAREX estimates” project

3) Patricia Liu, Ph.D. Student (History & Philosophy of Science & Technology, University of Toronto) – began December 2010.

- Working on the history of occupational cancer research in Ontario/Canada

4) Anne Harris, Post-doctoral fellow (Ph.D. from University of British Columbia) – began in January 2011

- Working on “Sinonasal cancer surveillance and exposure to sinonasal carcinogens in Ontario”, “Linkage of 1991 Census (20% sample) with tumour registry data”, and “Assessment of the human and economic costs of occupational cancer”.

Affiliated scientists

The OCRC continued to build relationships with scientists from Ontario, elsewhere in Canada, and internationally and many research projects are done in collaboration with these scientists (see Tables 1 through 4 in Appendix B).

Non-academic stakeholders

The OCRC continued to engage non-academic stakeholders by meeting with stakeholder groups to discuss the work of the Centre and to seek input on research and prevention priorities. For more information about knowledge exchange activities, see section 3 – “Deliver and exchange knowledge”.

3. DELIVER AND EXCHANGE KNOWLEDGE

The profile of the OCRC in Ontario, nationally and internationally, was raised in 2010-11, both because of the Centre’s collaborative projects and because of the profile of the new director and his participation on various national and international committees. The Centre continued to develop new collaborative projects. For example, the OCRC joined the Synergy project, an international project coordinated by IARC which pulls together occupational lung cancer researchers from across Europe and North America. In addition, the Director accepted numerous invitations to speak to various labour, not-for-profit, and academic groups this year.

Learning opportunities

The OCRC exchanged knowledge with stakeholders and created learning opportunities at its 2nd annual OCRC Research Day (Spring 2011). Handouts and presentations from the OCRC Research Day can be found on the OCRC website at <http://occupationalcancer.ca/2011/ocrc-research-day-2/>. Evaluation results showed that the speakers, importance of the topics, and usefulness and overall quality of Research Day



met or exceeded the expectations of at least 95% of participants.

An application to fund a second shift work symposium, focused specifically on interventions, was submitted this year to WSIB RAC and funded. An application to fund another symposium on the classification of carcinogens was submitted to the Canadian Institutes for Health Research, and funded. These symposia will take place in 2011-12.

Knowledge translation

OCRC continued to focus on knowledge translation activities in 2010-11, as follows:

- A dedicated OCRC website was launched in June 2010 (<http://occupationalcancer.ca>), with information about the Centre, the OCRC team, research projects, publications, information resources, opportunities for students and events.
- OCRC began to send out newsletters (related to learning opportunities and award competitions) to stakeholders, using new stakeholder database/e-mail communication software.
- OCRC began contributing to the monthly “Research Alert” abstracts disseminated by the Institute for Work and Health (IWH) to Health and Safety Associations.
- The Centre also contributed to the “News from the CREs” section of the IWH’s “At Work” newsletter.
- OCRC developed an “Ontario Cancer Fact” sheet on shift work for stakeholders and the wider cancer control community, disseminated in March 2011.
- The OCRC Director presented at labour, health professional, academic, and other stakeholder events on the work of the Centre or occupational cancer research and prevention priorities. For a list of presentations, please see Appendix B, Table 5.

Stakeholder partnerships and collaborations

The OCRC Steering Committee and Scientific Advisory Committee continued to remain engaged in the process of building the Centre. For example, the committees provided input into the OCRC Research Day and several members were co-applicants on grants for external funding of upcoming symposia (e.g., shift work and classification of carcinogens). In 2011-12, the Terms of Reference and membership of these committees will be reviewed and a regular schedule of meetings will be established near the beginning of the year, to ensure maximum participation.

OCRC leaders and staff participated in several committees related to occupational health and cancer, which increases the OCRC’s visibility, builds relationships and influences policy and practice.

- Canadian Cancer Society-related committees
 - Ontario Environmental and Occupational Committee
 - National Environmental and Occupational Committee
 - CCS National Advisory Committee on Research in Prevention



- CCSRI Research Program Redesign Working Group
- Institute for Work and Health-coordinated committees
 - Health and Safety Association Liaison Committee
 - Knowledge Transfer and Exchange Hub
- Centre for Research Expertise in Occupational Disease
 - Scientific Committee for the 5th International Conference on Occupational and Environmental Exposure of Skin to Chemicals (to be hosted by CREOD June, 2011)
 - CREOD Advisory Committee
- Ministry of Labour-coordinated committee
 - Occupational and Environmental Health Interest Group
- Council of Canadian Academies
 - Committee on the Integrated Testing of Pesticides
- Canadian Partnership Against Cancer
 - Primary Prevention Committee

4. BUILD A SUSTAINABLE CENTRE

The previous sections have described how we have begun to develop a strong core of researchers and staff and summarized our research and knowledge transfer and exchange activities. The basic infrastructure of the Centre was developed during its first years of operation, including its internal structure, advisory committees, and strategic plan.

In Year 1 and the first part of Year 2, the Centre initiated a number of relatively small projects, such as analyses of existing data, systematic reviews, and the stakeholder survey. Most of these projects were funded internally and the work was performed using existing staff, although external funds were obtained for a few projects and pilot studies. These were all valuable and appropriate projects and because they relied on internal funds, they allowed the OCRC to quickly establish momentum and a strong reputation. However, the ultimate goal will be to use core funding as seed money or as leverage for additional research funding, and to fund Centre activities for which external funding is difficult to obtain, such as knowledge transfer and exchange. In the latter part of Year 2 we obtained more funding through external competitions and opportunities. We will continue to do this in Year 3.

With the assistance of Jean-Yves Savoie, Chair of our Steering committee, we have begun developing a long-term sustainability plan and to identify potential funding sources. In the Centre's third year we will also begin to actively seek out additional partners and core funding. With guidance from the chair of our Steering Committee we will develop a strategy for directly approaching these and other institutions to request direct funding (e.g., from the Canadian Cancer Society Research Institute).



APPENDIX A: SUMMARY TABLE OF OCRC 5-YEAR STRATEGIC PLAN (2009-14)

Strategy 1: Build a research program	
<p>Strategic Plan:</p> <p>To build a research program that brings together researchers to further knowledge in the following areas: surveillance of occupational cancers and workplace exposures; identification of causes of cancer in the workplace; intervention research to develop and evaluate prevention and exposure reduction strategies.</p>	<p>Objectives:</p> <p>1.1 Undertake research, publish and present in the Centre’s areas of focus (surveillance, causes, interventions) using a mix of research methods.</p> <p>1.2 Develop and support a strong network of researchers working in collaboration with the Centre.</p>
Strategy 2: Build Research Capacity	
<p>Strategic Plan:</p> <p>To grow and develop occupational cancer research capacity across disciplines and stakeholder communities considering:</p> <p>Number of people working in the field; capacity to participate in research; and ability to use research findings.</p>	<p>Objectives:</p> <p>2.1 Support researchers and stakeholders to build capacity, share knowledge, and identify collaborative research opportunities and priorities.</p> <p>2.2 Facilitate the development of research platforms including data set assembly, cohort development, and innovative research methods.</p> <p>2.3 Attract students, pre and post doctoral scientists, and researchers in other disciplines to occupational cancer research.</p>
Strategy 3: Deliver and Exchange knowledge	
<p>Strategic Plan:</p> <p>To establish effective ways to build awareness for occupational cancer, inform/influence policy and practice, and encourage dialogue and the emergence of new research questions.</p>	<p>Objectives:</p> <p>3.1 Support awareness building and knowledge exchange for occupational cancer surveillance, causes, prevention and intervention at the policy, workplace, and community levels.</p> <p>3.2 Develop and disseminate materials that are accessible and useful to the broad stakeholder communities.</p> <p>3.3 Support stakeholders’ occupational cancer initiatives to effect change at the policy, workplace, and community levels.</p>
Strategy 4: Build a Sustainable Centre	
<p>Strategic Plan:</p> <p>To build a robust Centre that attracts funding and partners in support of excellence in research and knowledge transfer and exchange (KTE).</p>	<p>Objectives:</p> <p>4.1 Build a strong base of funding and strategic partners.</p> <p>4.2 Develop a strong core of OCRC researchers and staff.</p> <p>4.3 Build strong Centre infrastructure including committees, structures, processes, and policies.</p>



APPENDIX B: 2010-11 RESEARCH PROJECTS, EXTERNALLY-FUNDED PROJECTS, AND PUBLICATIONS AND PRESENTATIONS

Table 1. Research projects using core funding (2010-11)

Research Project	OCRC Team and Collaborators	Progress in 2010-11
1. The effects of multiple pesticides in combination on cancer risk	<p><i>OCRC:</i> Aaron Blair (PI), Karin Hohenadel, Shelley Harris, Paul Demers, John McLaughlin</p> <p><i>Collaborators:</i> John Spinelli (BC Cancer Agency), Nichole Garzia (UBC), Punam Pahwa & James Dosman (University of Sask.)</p>	<ul style="list-style-type: none"> - Analyses completed for non-Hodgkin lymphoma - Manuscript submitted for publication - Abstract accepted at the North American Congress of Epidemiology, Montreal - New multiple myeloma analyses underway
2. The potential for immunologic conditions such as asthma to act as effect modifiers for pesticides and cancer risk	<p><i>OCRC:</i> Aaron Blair (co-PI), Shelley Harris (co-PI), Manisha Pahwa, Karin Hohenadel, John McLaughlin</p> <p><i>Collaborators:</i> John Spinelli (BC Cancer Agency), Punam Pahwa & James Dosman (University of Sask.)</p>	<ul style="list-style-type: none"> - Analyses ongoing
3. Systematic review of interventions for the prevention of occupational cancer	<p><i>OCRC:</i> Aaron Blair (PI), Paul Demers, Karin Hohenadel</p> <p><i>Collaborators:</i> Kurt Straif (International Agency for Research on Cancer)</p>	<ul style="list-style-type: none"> - Analyses completed - Manuscript drafted - Abstract submitted to the International Committee on Epidemiology in Occupational Health (EPICOH) conference, Oxford
4. Women and minorities and other trends in occupational cancer research: An update	<p><i>OCRC:</i> Aaron Blair (PI), Karin Hohenadel, Marina Stegne, Priyanka Raj, Paul Demers</p> <p><i>Collaborators:</i> Sheila Hoar Zahm (U.S. National Cancer Institute)</p>	<ul style="list-style-type: none"> - Review ongoing
5. Mesothelioma patterns and projections in Ontario and Canada	<p><i>OCRC:</i> Loraine Marrett (Co-PI), Paul Demers, Marina Stegne</p> <p><i>Collaborators:</i> Mark Clements (Co-PI) (Australian National University)</p>	<ul style="list-style-type: none"> - Analyses completed - Draft of manuscript in progress



Research Project	OCRC Team and Collaborators	Progress in 2010-11
6. OCRC Stakeholder Survey	<i>OCRC:</i> Aaron Blair (PI), Karin Hohenadel, Loraine Marrett, Shelley Harris, John McLaughlin, Paul Demers	- Paper accepted for publication
7. Analysis of the MESU database and linkage with CAREX estimates	<i>OCRC:</i> Paul Demers (PI), Victoria Arrandale, Kate Jardine <i>Collaborators:</i> Cheryl Peters (CAREX Canada)	- Analyses using MESU dataset began
8. History of occupational cancer research in Ontario and Canada	<i>OCRC:</i> Paul Demers (PI), Patricia Liu	- Review and interviews completed - Draft of report in progress
9. Synergy pooled lung cancer case-control study	<i>OCRC:</i> John McLaughlin (co-PI), Paul Demers (co-PI), Kate Jardine <i>Collaborators:</i> Kurt Straif (International Agency for Research on Cancer), many others	- Dataset cleaned - Dataset sent to international collaborators to be pooled
10. Sinonasal cancer surveillance and exposure to sinonasal carcinogens in Ontario	<i>OCRC:</i> Paul Demers (PI), Loraine Marrett, Anne Harris <i>Collaborators:</i> Chris McLeod, Mieke Koehoorn, Cheryl Peters (University of British Columbia)	- Tumour registry data analyses began
11. Database of Canadian occupational carcinogen exposure studies	<i>OCRC:</i> Paul Demers (PI), Priyanka Raj, Kate Jardine <i>Collaborators:</i> Cheryl Peters, Calvin Ge (CAREX Canada)	- Dataset created - Data entry and coding ongoing
12. Assessment of the human and economic costs of occupational cancer	<i>OCRC:</i> Paul Demers (PI), Loraine Marrett, Anne Harris, Karin Hohenadel <i>Collaborators:</i> Anne-Marie Nicol (University of British Columbia), Douglas Hyatt (University of Toronto), Lesley Rushton (Imperial College, London)	- Initial meeting held in Toronto with investigators of similar projects from Alberta, Quebec, UK, United States - Summary fact sheet on the burden of occupational cancer prepared for OCRC Research Day and Institute for Work and Health newsletter - Note: grant submitted to WSIB RAC in 2011-12



Table 2. Research projects that received external funding (2010-11)

Research Project	OCRC Team and Collaborators	Funder, Budget and Timeline
1. Health risks among nuclear workers in Ontario who have been exposed to internal sources of ionizing radiation: A feasibility study	<i>OCRC:</i> Loraine Marrett (Co-PI), Minh Do (Co-PI), John McLaughlin <i>Collaborators:</i> Elisabeth Cardis (CREAL, Barcelona)	WSIB RAC \$29,000 2011-2012
2. Ontario uranium miner cohort: Linkage with national mortality and cancer incidence files	<i>OCRC:</i> John McLaughlin (PI), Minh Do, Shelley Harris, Loraine Marrett <i>Collaborators:</i> Members of the National Uranium Miners Working Group	Canadian Nuclear Safety Commission \$150,000 (contract in negotiation) 2011-2012
3. Making the link between exposure and respiratory cancer in the clinical setting: What are the steps?	<i>OCRC:</i> Loraine Marrett (Co-PI), Marina Stegne <i>Collaborators:</i> Linn Holness (Co-PI), Irena Kudula (St. Michael's Hospital), John Oudyk (OHC OW)	WISB RAC \$30,000 2011-2012
4. Occupational exposure to diesel and gasoline engine emissions and the incidence of colorectal and bladder cancer in Canadian men	<i>OCRC:</i> Shelley Harris (PI) <i>Collaborators:</i> Paul Villeneuve (Health Canada, U of T), Kenneth Johnson (Public Health Agency of Canada), Marie-Elise Parent (Institut national de la recherche scientifique, Quebec)	WSIB RAC \$161,000 2011-2012
5. Interventions mediating health risks among shift workers: Current knowledge and workplace practices	<i>OCRC:</i> Paul Demers (PI), Marina Stegne <i>Collaborators:</i> Cam Mustard (IWH), Kristan Aronson (Queen's University)	WSIB RAC \$52,000 2011-2012



Table 3. Publications (2010-11)

Paper or abstract	Authors	Journal or Conference	Status
National study of exposure to pesticides among professional applicators: an investigation based on urinary biomarkers	Harris SA, Villeneuve PJ, Crawley CD, Mays JE, Yearly RA, Hurto KA, Meeker JD	Journal of Agricultural and Food Chemistry	Paper published
Lung cancer risk in never-smokers: a population-based case-control study of epidemiologic risk factors.	Brenner DR, Hung RJ, Tsao, M-S, Shepherd FA, Narod S, Rubenstein W, McLaughlin, JR	BMC Cancer	Paper published
Priority issues in occupational cancer research: Ontario stakeholder perspectives.	Hohenadel K, Pichora E, Marrett L, Bukvic D, Brown J, Harris SA, Demers PA, Blair AE	Chronic Diseases in Canada	Paper accepted
Exposure to multiple pesticides and risk of non-Hodgkin lymphoma in men from six Canadian provinces	Hohenadel K, Harris SA, McLaughlin JM, Spinelli JJ, Pahwa P, Dosman JA, Demers PA, Blair A	International Journal on Environmental Research and Public Health	Paper submitted (paper accepted in May)
Surveillance of Mesothelioma and Workers' Compensation in British Columbia, Canada	Kirkham T, Koehoorn MW, McLeod CB, <u>Demers PA.</u>	Occup Env Med	Paper published
Cohorts and Consortia Conference: a summary report	Boffetta P, Colditz GA, Potter JD, Kolonel L, Robson PJ, Malekzadeh R, Seminara D, Goode EL, Yoo Y, <u>Demers P</u> , Gallagher R, Prentice R, Yasui Y, O'Doherty K, Petersen GM, Ulrich CM, Csisz-madi I, Amankwah EK, Brockton NT, Kopciuk K, McGregor SE, Kelemen LE.	Cancer Causes Control	Paper published
Exposure to Pesticides and Metal Contaminants of Fertilizer among Tree Planters	Ng MG, Stjernberg E, Koehoorn M, <u>Demers PA</u> , Davies HW.	Annals Occup Hyg	Paper Accepted



Table 4. Conference and symposium presentations (2010-11)

Paper or abstract	Authors (affiliations of non-OCRC authors in*)	Conference or Venue	Type of Presentation
The prevalence of shift work in Canada	Paul A. Demers, Imelda Wong (CAREX/ University of BC,UBC), Christopher McLeod (Worksafe BC Partnership/UBC)	Scientific Symposium on the Health Effects of Shift Work. Toronto, Ontario, April 12, 2010	Symposium oral presentation
Occupational Carcinogens: Current Knowledge, Gaps, and Stakeholder Perspectives	Paul A. Demers, Aaron Blair, Karin Hohenadel, Shelley Harris, Daniel Bukvic, Erin Pichora, Loraine Marrett	OCRC symposium: “Carcinogens in the Ontario Workplace: Work of the new OCRC” at the Canadian Association for Research on Work and Health (CARWH) Conference, Toronto, May 29, 2010.	Conference oral presentation
Pesticides and Cancer: New Analyses of a Multi-Centre Case Control Study	Aaron Blair, Karin Hohenadel, Shelley Harris, Paul A. Demers, John McLaughlin	Same as above.	Conference oral presentation
Ionizing Radiation Exposure and Risk non-Lung Cancers - A Study of the Ontario Uranium Miners	Minh Do, Loraine Marrett, Jim Purdham (University of Toronto), W Lou, Jenifer Payne	Same as above.	Conference oral presentation
Asbestos and Mesothelioma in Ontario	Loraine Marrett	Same as above.	Conference oral presentation
How Widespread is Exposure to Environmental Carcinogens in Canada?	Paul Demers	University of Guelph, Annual Toxicology Symposium, March 5, 2011	Symposium oral presentation
The effectiveness of asbestos-related interventions in reducing cancer rates: a systematic review	Karin Hohenadel, Kurt Straif (IARC), Paul Demers, Aaron Blair	OCRC Research Day, Toronto, March 23, 2011	Symposium oral presentation
Historical exposure to wood dust in Ontario from 1981 to 1996	Victoria Arrandale, Amy Hall (CAREX/UBC), Cheryl Peters (CAREX/UBC), Paul Demers	OCRC Research Day, Toronto, March 23, 2011	Symposium oral presentation



Paper or abstract	Authors (affiliations of non-OCRC authors in*)	Conference or Venue	Type of Presentation
Mesothelioma in Ontario: Past, present & future	Mark Clements (Australian National University), Loraine Marrett, Diane Nishri, Marina Stegne, Paul Demers	OCRC Research Day, Toronto, March 23, 2011	Symposium oral presentation
Exposure to multiple pesticides and risk of non-Hodgkin lymphoma in Canadian men	Aaron Blair, Karin Hohenadel, Shelley Harris, Paul Demers, John McLaughlin	OCRC Research Day, Toronto, March 23, 2011	Symposium oral presentation
Priorities for occupational cancer research in Ontario and Canada	Paul Demers	OCRC Research Day, Toronto, March 23, 2011	Symposium oral presentation
Estimating occupational exposure to skin carcinogens in Canada	Cheryl E Peters (CAREX/UBC), Anne-Marie Nicol (CAREX/UBC), Paul A Demers	Occupational & Environmental Exposure of Skin to Chemicals, Toronto, June, 2011	Accepted conference oral presentation
Occupational and Environmental Skin Carcinogens: Overview	Paul A Demers	Occupational & Environmental Exposure of Skin to Chemicals, Toronto, June, 2011	Accepted conference oral presentation
Cancer incidence among Nordic firefighters	Paul A Demers, Jan I Martinsen (Norwegian Cancer Registry,NCR), Elisabete Weiderpass (Karolinska Institut), Kristina Kjaerheim (NCR), Lyng E (University of Copenhagen), Par Sparén (KI), Eero Pukkala (Finnish Cancer Registry)	North American Epidemiology Congress, Montreal, June 2011	Accepted conference poster presentation
Exposure to multiple pesticides and risk of non-Hodgkin lymphoma in men from six Canadian provinces	Karin Hohenadel, Shelley A Harris, John M McLaughlin, John J Spinelli (BC Cancer Agency), Punam Pahwa (University of SK), John A Dosman (University of SK), Paul A Demers, Aaron Blair	North American Epidemiology Congress, Montreal, June 2011	Accepted conference poster presentation



Paper or abstract	Authors (affiliations of non-OCRC authors in*)	Conference or Venue	Type of Presentation
The impact of asbestos-related prevention efforts on lung cancer and mesothelioma incidence: A systematic review	Hohenadel K, Straif K, Demers PA, Blair AE.	International Committee on Epidemiology in Occupational Health (EPICOH) conference, Oxford, September, 2011	Accepted conference poster presentation
Cancer incidence among Nordic firefighters	Paul A Demers, Jan I Martinsen (Norwegian Cancer Registry,NCR), Elisabete Weiderpass (Karolinska Institut), Kristina Kjaerheim (NCR), Lyng E (University of Copenhagen), Par Sparén (KI), Eero Pukkala (Finnish Cancer Registry)	North American Epidemiology Congress, Montreal, June 2011	Accepted conference oral presentation

Table 5. Stakeholder and other presentations (2010-11)

Title	Presenter	Conference or Venue	Type of Presentation
Surveillance for Asbestos-Related Disease in British Columbia	Paul Demers	Asbestos-Related Disease Surveillance and Compensation Workshop, May 14, 2010	Workshop Presentation
Occupational Cancer; Current and Future Issues	Paul Demers	AWCBC Learning Symposium, Quebec City, October 6, 2010	Workshop Presentation
Occupational Cancer	Paul Demers	USW International Health and Safety Meeting, Pittsburgh, October 7, 2010	Plenary presentation
Exposure to Occupational Carcinogens	Paul Demers	IWH Plenary Lecture Series, November 2, 2010	Seminar presentation
IARC & IOM Evaluations of Gastrointestinal Cancers and Exposure to Asbestos	Paul Demers	MoL Office of the Worker Adviser and invited labour representatives, November 8, 2010	Invited Presentation



Title	Presenter	Conference or Venue	Type of Presentation
Recent Developments in Occupational Cancer	Paul Demers	Meeting of Canadian Auto Workers National Health and Safety Directors, november 11, 2010	Invited Presentation
The Occupational Cancer Research Center and CAREX Canada	Paul Demers	Canadian Cancer Society National and Ontario Division Leadership, November 16, 2011	Invited Presentation
Estimating the Number of Canadians Exposed to Workplace Carcinogens	Paul Demers	SMH Occupational Medicine Rounds, January 12, 2011	Seminar presentation
How Widespread is Exposure to Environmental Carcinogens in Canada?	Paul Demers	University of Toronto Environmental and Health Lecture Seminars, February 3, 2011	Seminar presentation
Searching for Occupational Cancer Prevention Policies	Paul Demers	Canadian Partnership Against Cancer Webinar Series, March 3, 2011	Webinar

