Research and publications:

a. Grants

Table 1. Summary of research grants awarded in Canadian dollars

<table>
<thead>
<tr>
<th>Pathologist as PI</th>
<th>Pathologists as Co-PI</th>
<th>Cross appointed Scientist as PI</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>1,984,952</td>
<td>50,337,688</td>
<td>15,840,075</td>
</tr>
</tbody>
</table>

Table 2. List of major research grants with departmental members as principal investigators

<table>
<thead>
<tr>
<th>Name</th>
<th>Sponsor</th>
<th>Amount awarded as of 2016 (CDN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ajise, Y</td>
<td>MGH Foundation</td>
<td>35,000.00</td>
</tr>
<tr>
<td>Baglole, C.</td>
<td>RI-MUHC, Merck, FRSQ, CIHR, Pathology</td>
<td>422,300.00</td>
</tr>
<tr>
<td>Burnier, M.</td>
<td>Alcon Canada Inc. – MITACS, NSERC</td>
<td>497,166.70</td>
</tr>
<tr>
<td>Camilleri, S</td>
<td>MGH Foundation, Pathology Research Award</td>
<td>45,000.00</td>
</tr>
<tr>
<td>Divangahi, M.</td>
<td>CIHR, NSERC</td>
<td>258,642.00</td>
</tr>
<tr>
<td>Gao, Z</td>
<td>China National Nature Science Foundation</td>
<td>212,233.00</td>
</tr>
<tr>
<td>Guiot, MC</td>
<td>Pathology Research Award</td>
<td>10,000.00</td>
</tr>
<tr>
<td>Haegert, D.</td>
<td>Novartis, Aubagio</td>
<td>138,616.00</td>
</tr>
<tr>
<td>Hamid, Q</td>
<td>CIHR</td>
<td>140,079.00</td>
</tr>
<tr>
<td>Jung, S</td>
<td>MGH Foundation</td>
<td>70,000.00</td>
</tr>
<tr>
<td>Karamchandani, J</td>
<td>Pathology, MGH and Go Foundation</td>
<td>70,000.00</td>
</tr>
<tr>
<td>Lavoie, L.</td>
<td>Pathology Research Award</td>
<td>10,000.00</td>
</tr>
<tr>
<td>Metrakos, P.</td>
<td>US Department of Health &amp; Human Services</td>
<td>38,365.00</td>
</tr>
<tr>
<td>Omeroglu, A</td>
<td>Pathology Research Award</td>
<td>10,000.00</td>
</tr>
<tr>
<td>Papadopoulos, V.</td>
<td>CIHR, CFI, NIH, FRSP, Riken, RVH Foundation</td>
<td>11,608,661.00</td>
</tr>
<tr>
<td>Park, M</td>
<td>NIH, FRSP, CRS, CIHR</td>
<td>2,729,862.00</td>
</tr>
<tr>
<td>Sabri, S</td>
<td>CRS</td>
<td>160,000.00</td>
</tr>
<tr>
<td>Telleria, C</td>
<td>McGill Start-up Funds, CFI</td>
<td>546,603.00</td>
</tr>
<tr>
<td>Spatz, Alan</td>
<td>FRSP-NSFC, ICRF</td>
<td>567,500.00</td>
</tr>
<tr>
<td>Van Kempen, Leon</td>
<td>Israel Canada Research Fund</td>
<td>180,000.00</td>
</tr>
<tr>
<td>Wang, H.</td>
<td>Pathology Research Award</td>
<td>5000.00</td>
</tr>
</tbody>
</table>

b. Publications

Table 1. Publications by departmental pathologists:

<table>
<thead>
<tr>
<th>Total No. of publications</th>
<th>No. of staff who published</th>
<th>Publications per person</th>
<th>Mean impact factor</th>
<th>Mean number of citations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pathologists</td>
<td>94</td>
<td>29</td>
<td>3.29</td>
<td>4.55</td>
</tr>
<tr>
<td>Cross-appointed scientists (8):</td>
<td>49</td>
<td>6</td>
<td>8.16</td>
<td>4.52</td>
</tr>
</tbody>
</table>

With the increase of research capacity and the incorporation of the MUHC-RI histopathology platform, the Department of Pathology has officially established an Experimental Pathology Unit which includes 9 research streams: breast pathology, dermatological pathology, gastrointestinal pathology, genitourinary pathology, gynecological pathology, molecular pathology, neurological pathology, ophthalmologic pathology and pulmonary pathology. Our faculty members have been involved in many high profile basic science and clinical studies which have resulted in publications in high impact journals [Link to Publications for 2016].

c. Significant conference presentations

Auger, M.
- Guest speaker: 7th Annual Papanicolaou Tutorial on updated diagnostic cytopathology-Focus on Hurtle Cell Lesions of Thyroid and QA monitors in gynecological cytology, New York, NY. 2016
- Organizer and director: McGill Cytopathology Review Course, Montreal 2016

### Baglole, C.
- Speaker: 16th International Winter Eicosanoid Conference, Baltimore, MD, USA 2016

### Brimo, F.
- Invited speaker: 2nd Canadian Urological Association-Canadian Urological Oncology Group-Bladder Cancer Care Canada, Bladder Cancer Quality of Care Meeting, Toronto, ON 2016.
- Invited speaker: Annual Canadian Senior Resident Urologic Course, Montreal, QC 2016.
- Chair: the Proffered Genitourinary Pathology Papers Morning Session United States and Canadian Association of Pathologists Meeting, Seattle, WA USA 2016.
- Invited speaker: Department of Pathology, University of Saskatoon, Saskatoon, Canada 2016.
- Invited speaker: Quebec Association of Pathologists (APQ) Annual Meeting, Magog, Canada 2016.

### Burnier, M.
- Keynote speaker: PARD, Seattle, WA USA 2016.
- Guest speaker: World Ophthalmology Congress (WOC), Guadalajara, MX 2016.
- Guest speaker: State of the Art; Update Leaders in Ophthalmology, Sao Paulo, Brazil 2016.

### Case, B.
- Invited speaker: Altice (American Industrial Hygiene Association) Round Table, Baltimore, MD, USA 2016.

### Karamchandani, J.
- Invited speaker, Symposium Annuel de Neuro-Oncologie, CHUM, Montreal, QC. 2016.
- Invited speaker: Canadian National Neuromuscular Rounds, Montreal, QC 2016.

### Park, M.
- Invited Speaker-International x 11: Medical College of Wisconsin Cancer Center; Cincinnati Cancer Symposium 2016 Jensen Symposium on Breast Cancer; Cedars-Sinai Medical Center; Breast Oncology Program at University of San Francisco; Dept. of Biological Science at the University of Notre Dame; FASEB Science Research Conferences at Snowmass; University of Edinburgh in Scotland; Symposium of Personalized Cancer Care at Oslo Norway; Beatson Institute at Glasgow Scotland; 12th annual Bellairs research Workshop, Cell biology of disease, St. James, Barbados; and Tumor Microenvironment Conference, in San Diego
- Invited Speaker-National x3: The Fifth McGill-Weizmann Joint Symposium in Montreal; Frontiers in Translational Research Ex-vivo Models in Human Disease in Toronto; and the 16th IUBMB Conference, on Signaling Pathways in Development, Disease and Aging in Vancouver.

### Spatz, A.
- Invited speaker, International Society for Melanoma Research, Boston, MA USA 2016.

### Van Kempen, L.

### Zorychta, E.

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*Teaching and learning (undergraduate and graduate):*

**a. Teaching awards**
- Dr. Louise Rochon received ‘Teacher of the Year’ award 2015-2016.

**b. Initiatives and innovations in teaching programs**
The department of Pathology hosted its “Career Day” session on May 3, 2016 for 3rd and 4th year McGill medical students who are considering applying to the pathology residency program.

Residency training program passed the McGill internal accreditation; hosted the first residency program retreat; received medical equipment teaching fund (60K) from the 2016 competition; Residents completed some QA/QC projects (IHC on decal specimens, MOC-31 validated for alcohol-fixed tissues, p16 for use in FNA tissues)

Undergraduate program reviewed and ameliorated the Pathology component of the FMD part of the medical/dental teaching to ensure full compliance with the accreditation standards such as having clear objectives for the lectures and small groups, quality and relevance of exam questions, etc.

Proposal for Fourth year Medical Class curriculum of a selective for the “Putting It All Together (PIAT) course titled “Pathology for medical, radiation and surgical oncologists” was accepted.

Graduate program expanded to have 10 PhD students, 11 MSc students, three jointly-trained PhD students from China and 4 post-doctoral fellows. New graduate courses were developed by Dr. Telleria and Dr. Baglole. Graduate program web site were updated

The AFC-cyto clinical fellowship program passed the Royal College accreditation

c. Evidences of teaching success

- Awards received by our students and Residents
  - Amal Al-Odaini, Resident of the Year, 2015-16.
  - Duc Vinh Thai, Best Resident Teacher, 2015-16.
  - Qing Li, Best Poster, Finlayson Day presentations 2016.
  - Jeffrey Downey, Best Experimental Research Presentation-Finlayson Day presentations 2016.

- Student publications
  Graduate students published 10 articles and delivered 22 presentations at research conferences. Residents published 10 articles and had 12 meeting presentations.

- Result of Royal College Licensing Examination
  May Chergui, Mojgan Ebrahimi, Elisa Ferreira-Brega, Margaret Redpath, Khurram Sher and Cristina Storoz successfully passed the exam in May 2016

- Pathology electives
  In 2016, there were 105 residents from other programs and 20 medical students who did electives in the Department of Pathology

Involvement in the community:

Ajise, O
- Evaluator for the Office of admissions committee, McGill University School of Medicine.
- Quality assurance/Improvement Project: Frozen section diagnostic correlation/Interpretation committee

Arseneau, J
- Member, Tumor board co-ordinating committee, representing Pathology
- Pathologist, SHAPE trail-early stage cervical cancer
- Pathologist, PAP gene study-early detection of endometrial and ovarian cancer.
- Director of Gynecological Pathology

Auger, M.
- Member, Editorial board Journal American Society of Cytopathology
- Member, Editorial Advisory Board of Cancer Cytopathology
- Director of Cytopathology Lab, MUHC.
- Program director for the new AFC-cyto program
- Ad hoc reviewer for Diagnostic Cytopathology, Acta Cytologica journal
- Member of MUHC Department of Pathology Quality Management Committee

Baglole, C
- Director of Histopathology, McGill University Health Center

Bagdounes, K
- Director of Pathology at St. Mary’s Hospital and Lakeshore Hospital
Bernard, C.
- Director of Pediatric Pathology
- Surveyor, Royal College.

Blumenkrantz, M
- Director of QA committee, MUHC Department of Pathology
- Member, Laboratoire de Santé Publique du Québec

Brimo, F.
- Member, Editorial Board for World Journal of Pathology.
- Ad hoc reviews (various cytopathology & urology journals).

Caglar, D.
- Member of the MUHC Head & Neck Cancer committee
- Member of MUHC Thyroid Cancer committee

Camilleri-Broët, S.
- French translator for the Canadian Journal of Pathology.
- Director of Surgical Pathology, MUHC

Chergui, B.
- Executive member and treasurer of the L'Association des pathologistes du Québec
- Member of the committee for evaluation of medical act (MEDPEC) at MUHC

Fraser, R.
- Director, Maude Abbott Medical Museum of McGill University.
- Member, James McGill Society Council.
- Member, Osler Library Board of Directors

Gao, Z.
- Chair, McGill Department of Pathology
- Chief, Department of Pathology, McGill University Health Center
- Chair, Department of Pathology academic committee
- Director, GI/Liver Pathology Fellowship program
- Member, Advisory Committee China Relations, McGill University Faculty Medicine
- Advisor, Jewish General Hospital and St Mary’s Health Center
- Member, Canadian Association of Pathology Chairs
- Member, American Association of Pathology Chairs

Guiot, M.C.
- Site director, Neuropathology, MNH

Haegert, D.
- Director, Molecular Pathology in Core Molecular Biology Lab.

Haliotis, T
- Ethics Officer, Executive Committee, HMAQ.

Issa-Chergui, B
- Director of Autopsy service, Department of Pathology-McGill University Health Center.
- Representative of FMSQ for Pathology Optilab Committee
- McGill RUIS representative, comité ministériel d’anatomo-pathologie.

Kanber, Y
- Member of E-journal committee, American Society of Cytopathology.
- Member AFC Cytopathology program committee.

Karamchandani J
- Member of the editorial board for Canadian Journal of Pathology
- Board of Governance, St. Michael’s Hospital Brain Tissue Bank
- Director, Pathology Residency Training program
- Director, MNI’s Open Science Biorepository.

Lavoie, J.
- Member, Canadian College of Medical Geneticist examination committee and clinical practice committee member
- Vice-president of the “Association de Cytogénétique du Québec
- Director of the McGill CCMG fellowship program.

Marcus, V.
- Member of the Canadian Partnership against Cancer (CPAC) Rectal Cancer Project.
- Director of GI/Liver Pathology Subspecialty services, MUHC Department of Pathology.

Michel, R.P.
- Director of Pathology component of Undergraduate medical and dental curriculum.
- Faculty of Medicine, Member FMD committee
- Faculty of Medicine, Member of basic science committee, FMD.
- Member of the Committee for Student Promotions Curricular Outcomes (CSPCO).
- Member of Dept. of Pathology Academic committee.
- Member, Faculty of Medicine Faculty Council

Nguyen, VH
- Residency Program Assistant Director.
- Member of Advisory Committee of Biomedical Laboratory Technology Program, Dawson College,

Papadopoulou, V.
- Member of the Board of Directors of the Fonds de la Recherche du Québec (FRSQ)-Santé.
- Member, National Scientific Advisory Council, American Federation for Aging Research, New York, NY.

Park, M
- Member, American Association for Cancer Research International
- Member, FRQS – Oncopole – Champion des axes 1
- Member, Cole Foundation Board Committee
- Member/Leader/College Chair, Canadian Institutes for Health Research
- Member, American Association for Cancer Research
- Member, Women in Cancer Research Council (WICR)
- Member, CIHR Peer Review Committee
- Board Chair, Goodman Cancer Research Centre Board Committee
- Elected Chair, Tumor Microenvironment Network, American Association for Cancer Research
- Member, Scientific Advisory Board Research, Institute of Princess Margaret Cancer Centre
- Member Advisory Committee on Research (ACOR), Canadian Cancer Society

Richardson, J
- Member, Clinical Faculty Committee for the Canadian Association of University Teachers.
- Pro-Dean for 2 PhD. defenses (Faculties of Arts and Agricultural & Environmental Sciences).
- Senior Advisor for McGill Association of University Teachers.

Spatz, A.
- Member of the University Tenure Committee.
- Scientific committee member, Melanoma Research Alliance, Washington, DC
- Co-chair, Canadian Cancer Trials Group – Melanoma committee

Zorychta, E.
- Chair, Graduate Studies Committee.
- Chair, Leo Yaffe and Principal’s Prize Awards Committee, Faculty of Science
- Elected member, McGill University Senate and McGill University Board of Governors
- Director of Graduate & Postdoctoral Studies, Department of Pathology.
- Member, Nomination, Governance and Ethics Committee, Board of Governors
- University Vice-Marshal for all Convocation ceremonies
- Member, Education Strategic Planning Committee, Faculty of Medicine
- Member, Teaching Committee, Dept. of Pharmacology & Therapeutics.

Milestones:
• **Major events**
  - January: The Department of Pathology, McGill held its 4th Retreat at Hotel Intercontinental on January 9, 2016.
  - March: The department presented 8 abstracts at the 105th USCAP Annual meeting, Seattle, Washington. Dr. Pablo Zoroquiain has been selected as a USCAP Ambassador for a two-year term.
  - May: The 13th edition of the McGill Cytopathology Review Course
  - May 7-10, 2016. The Henry C. Witelson Ocular Pathology Laboratory presented 22 abstracts at the ARVO’s annual meeting in Seattle, Washington.
  - June: The department held its annual Finlayson Research Day with Dr. Robert Kurman from John Hopkins University School of Medicine, Baltimore, Maryland as the keynote speaker.
  - July: The department welcomed four new residents, Drs. Ayesha Baig, Victor Brochu, Mélina Janelle, Baharak Khadang and two clinical fellows, Dr. Maher Kurdi in the neuromuscular pathology program, and Dr. Nathalie Mourad in the gastrointestinal pathology program.
  - August: The 2nd Academic Renewal Fund Research Competition, 5 projects were funded.
  - November: Resident training program retreat
  - December: MUHC Christmas event where departmental collegiality and innovation award was given out.
  - Pathology Scientific Lecture Series featured two invited speakers from across Canada, two invited speakers from across USA and two of our Residents.

• **Recruitments**
  - July: Hua Ling, Graduate Studies Program Coordinator, was hired.
  - September: Dr. Pierre-Olivier Fiset joined the Pathology team at the Glen.

• **Retirements and departures**
  - July: Dr. Ramila Amre left the MUHC.
  - September: Dr Vassilios Papadopoulos left MUHC
  - October: Dr. John Richardson passed away.
  - October: Dr. Alessandra Duncan retired.
  - December: Dr. Lesley Alpert retired.

**Honours, awards, and prizes:**

Ajise, O
  - Received the Dr. William P. Duguid Research Award, MGH Foundation 2016.

Auger, M
  - The 1st trainee in the Area of Focused Competence in Cytopathology program, Dr. Muhammad Hassan supervised by Dr. Auger received his diploma in AFC-cytopathology from the Royal College.

Baglole, C
  - Grand prize, Departmental Research Competition.

Burnier, M
  - SPO, Portuguese Society of Ophthalmology, Honorary Member.
  - President Elect, Pan-American Academy of Ophthalmology

Brimo, F.
  - Promoted to Associate Professor.

Camilleri-Broët, S.
  - Received funding in the 2nd Departmental Research Competition for the following project, Lung Cancer in Nunavik.
  - Received funding from the Rossy Cancer Network Cancer Quality Improvement Grant.-Lung Cancer in Nunavik

Fiset, P.O.
  - Received the MGH Foundation award 2016

Guiot, MC.
  - Prix de la Recherche 2016, mention technologie
  - Received one of the five awards given out during the 2nd Departmental Research Competition.

Haegert, D.
  - Completed a study on MS with Novartis Pharmaceuticals Canada.
Jung, S.
- Received the MGH Foundation Award 2016

Karamchandani, J
- Received the MUHC Foundation Gerard Douville Award
- Received the MUHC Foundation Brigadier-General Herbert Stanley Birkett Award

Lavoie, J
- Received one of the five awards given out during the 2nd Departmental Research Competition.

Park, M.
- James McGill Professorship Award
- Appointed Diane and Sal Guerrera Chair in Cancer Genetics.
- Named Fellow of the Royal Society of Canada.
- CSMB Arthur Wynne Gold Medal Award

Wang, H.
- Received one of the five awards given out during the 2nd Departmental Research Competition.

Zorychta, E.
- Reappointed on the McGill Senate
- Appointed for a three year term to the executive committee of the McGill Board of Governors.

Consulting activities:
- Pathologists at MUHC provide consultation services on complex cases from the province and across the country
- The Molecular Pathology Center at the Jewish General Hospital is one of the designated testing center for the province of Quebec and one of the top referral test centers in Canada
- The cytopathology and IHC laboratory at MUHC is one of the designated laboratories for the province of Quebec
- The Neuropath laboratory is a referral center for the province of Quebec.
- Dr. Bruce Case provides consultation to various NGOs regulatory agencies, American and Canadian law firms, and private citizens with interest in asbestos-related diseases.
- Dr. Zu-hua Gao provides consultation to several pathology departments in China.
- Dr. Burnier's ocular pathology laboratory is an international referral center on complex ocular pathology cases.