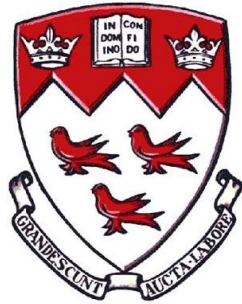


McGill University



Department of Pathology

ANNUAL REPORT – 2019

Dr. Zu-Hua Gao
Professor and Chair

Department of Pathology – Annual Report - 2019

Research and publications:

a. Grants

Table 1. Summary of research grants awarded in Canadian dollars

	Pathologist as PI	Pathologists as Co-PI	Cross appointed Scientist as PI	Total
2019	1,722,151.00	1,618,629.50	5,468,669.90	8,809,450.40

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

Name	Sponsor	Amount awarded as of 2019 (CDN)
Baglolle, C.	Boehringer (BUILD), CIHR	247,695.00
Burnier, M.	Alcon Canada Inc. – MITACS, Zeiss	413,000.00
Camilleri, S	MGH Foundation, Pathology Research Award	62,659.56
Divangahi, M.	CIHR, FRSQ	318,442.00
Fiset, PO	MGH Foundation	40,000.00
Gregorieff, A	MUHC RI startup funds, CIHR, Cancer Research	289,904.00
Haegert, D.	Sanofi Genzyme	138,616.00
Hussain, S	CIHR, NSERC	417,324.00
Karamchandani, J	Merck, Takeda	140,000.00
Kassouf, W	Bladder Cancer Canada, CUA, Cancer Research	2,204,488.10
Lavoie, L.	Pathology Research Award	10,000.00
Maedler-Kron, C.	MGH Foundation	70,000.00
Metrakos, P.	NIH, Genome Canada	580,271.80
Park, M	NIH, FRSQ, CRS, CIHR	1,700,449.00
Sabri, S	CRS	60,000.00
Telleria, C	McGill Start-up Funds, CFI, Rivken	127,151.00
Ton Nu, T	MGH Foundation	30,000.00
Spatz, Alan	FRSQ-NSFC, ICRF	1,285,000.00

b. Publications

Table 1. Publications by departmental pathologists:

	Total No. of publications	No. of staff who published	Publications per person	Mean impact factor	Mean number of citations
Pathologists	125	26	4.81	5.50	16.14
Cross-appointed scientists (8):	77	7	11.00	8.99	11.01

The department's research productivity has reached a historical record high of >200 peer reviewed articles with a mean impact factor from 5.5 to 8.99. Our faculty members have been involved in many high profile basic science and clinical studies that have resulted in publications in high impact journals [Link to Publications for 2019](#).

c. Significant conference presentations

Ajise, O.

- Invited speaker: McLaren Northern Michigan Hospital, Department of Pathology, Petoskey, Michigan 2019.

Auger, M.

- Supervisor for recipient (Dr. Nickolas Myles) of the trainee award “Best cytology presentation on GU tract system” International Congress of Cytology, Sydney, Australia.
- Organizer and director: McGill Cytopathology Review Course, Montreal 2019.
- Co-director; Workshop on “Cytology of Body Fluids”, American Society of Cytopathology, Washington, DC USA.

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Baglole, C.

- Speaker: Health Canada Scientific Advisory Board on Vaping Products Meeting, Ottawa ON. 2019
- Speaker: 2nd International Annual Congress on Controversies on Cannabis-based Medicines, Barcelona, Spain 2019.

Brimo, F.

- Invited speaker: GUPS 1st Companion Meeting, USCAP Meeting, Gaylord, MD, USA 2019.
- Invited speaker: Annual Canadian Senior Resident Urologic Course, Montreal, QC 2019.
- Invited speaker: The Western-McMaster University Uro-oncology fall Retreat, Vaughn, ON 2019.

Burnier, M.

- Guest of Honor: Keynote Lecture, Zeiss UV 2019, Bogota, Colombia.
- Guest speaker: SPO 2019, Algarve, Portugal.
- Guest speaker: PAAO 2019 Congress, Cancun, Mexico.
- Guest speaker, IPB Annual Meeting 2019, Campinas, Brazil.
- Guest speaker: SIMASP, Sao Paulo, Brazil.2019.

Karamchandani, J.

- Invited speaker: Accreditation Canada, Douglas-Montreal Neurological Institute Collaboration, 2019.
- Invited speaker: Open Science in Action-Open Science Symposium, Montreal, 2019.

Park, M.

- Invited speaker and session Chair:31st Conference of the International Association for Breast Cancer Research, Egmond aan Zee, Netherlands.2019
- Invited speaker & session Chair: FASEB Science Research Conference (SRC), Palm Springs, United States. 2019
- Invited speaker & session Chair: Biology of Cancer: Microenvironment and Metastasis, Cold Spring Harbor, USA .2019
- Invited speaker: Dana Farber Seminars in Oncology, Boston, USA 2019

Telleria, C.

- Invited speaker: University of Buenos Aires, Buenos Aires, Argentina, 2019.

Zorychta, E.

- Invited speaker: Discover McGill’s Academic Expectations, Aug. 2019.

Teaching and learning (undergraduate and graduate):

a. Teaching awards

Dr. Van-Hung Nguyen received ‘Teacher of the Year’ award 2018-2019.

b. Initiatives and innovations in teaching programs

Undergraduate education:

- Fundamentals of Medicine and Dentistry: 52.5 lecture hours, 786 small group teaching hours and 25.5 lecture hours Put It All Together cancer pathology course.
- PATH300 – Human Disease 39 hours of lectures plus small group tutorials.
- Very good student evaluation, No concerns from the accreditation point of view
- The department of Pathology hosted its “Career Day” session on May 8, 2019 for 3rd and 4th year McGill medical students who are considering applying to the pathology residency program.

Graduate education:

- We have 15 PhD students, 20 MSc students and 3 post-doctoral fellows.

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- 700K internal and external funding (100k from the university, 100k from the department)
- Graduate program web site was updated.
- 6 students submitted their thesis and graduated (4 PhD, 2 MSc).
- Graduate program coordinator Hua Ling won the Principal's Awards for Administrative and Support Staff for her exemplary performance.
- Graduate student Constanza Martínez Ramírez won the FRQS Award; Elvis Martinez-Jaramillo and Prisca Bustamante both won the CONACYT award; Eva Jin received the Alexander McFee Fellowship; Majd Haddad received the Alexander McFee Fellowship; Sabrina Ritch won McGill Med star award, Ling Xiao Chen won The MUHC RI studentship; Audrey Burban received the Peter Quinlan Fellowship in Oncology

Postgraduate education

- Our residency training program was accredited by the Royal College for 8 years.
- Our AFC Cytopathology fellowship program was accredited by the Royal College for 8 years
- 4/4 PGY residents all passed the Royal College Exam, pass rate 100%, 2 went on for fellowship, 2 went on for community practice
- One AFC Cytopathology fellow graduated on July 2019, currently practicing at UBC
- CaRMS match recruited 3 Canadian and 1 IMG in the first round
- Two residents transferred to our program.
- 60 residents from other disciplines, 15 residents from other universities, and 11 medical students who did electives in our department
- Competency by design (CBD) implementation. We organized multiple education sessions. We divided the program director tasks into two persons and added another pathologist and another secretary for the implementation of CBD education. So far the CBD implementation is going well.

Continuing medical education

- Annual McGill Cytopathology Review Course successfully held in Montreal on April-15-16, 2019
- Ophthalmic Pathology Review Course successfully held in Montreal on August 14-16, 2019

c. Evidences of teaching success

Awards received by our students and Residents

- Victor Brochu, Resident of the Year, 2018-19.
- Katherine Lach, Best Clinical Research Presentation- Finlayson Day presentations 2019.
- Kyrie Wang, Best Resident Teacher, 2018-19.
- Prisca Bustamante, Best Poster, Finlayson Day presentations 2019.
- Constanza Ramirez, Best Experimental Research Presentation-Finlayson Day presentations 2019.
-

Student publications

Graduate students published 25 articles and delivered 40 presentations at research conferences. Residents published 1 article and had 10 meeting presentations.

Results of Royal College Licensing Examination

Linnea Duke, Milene Gonzalez-Verdecia and Yujing Wang successfully passed the exam in May 2019.

Pathology electives

In 2019, there were 42 residents from other programs and 12 medical students who did electives in the Department of Pathology

Involvement in the community:

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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 trial-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 AFC-cytopathology program
- Ad hoc reviewer for Diagnostic Cytopathology, Acta Cytologica journal
- Member of MUHC Department of Pathology Optilab Executive Committee
- Member of MUHC Department of Pathology Optilab Advisory Committee
- Member of American Society of Cytopathology Foundation Board

Baglole, C

- Director of Histopathology Platform, McGill University Health Center
- Director McGill Research Centre for Cannabis
- Member, Canadian Consortium for the Investigation of Cannabinoids(CCIC)
- Member, International Cannabinoid Research Society(ICRS)

Bakdounes, K

- Director of Pathology at St. Mary's Hospital and Lakeshore Hospital

Bernard, C.

- Member of the Residency Program Committee
- Member of CARMS Selection Committee
- Mentor for 1 Pathology Resident

Blumenkrantz, M

- Director of QA committee, MUHC Department of Pathology
- Medical director of Cytogenetics Laboratory

Brimo, F.

- Member, Editorial Board for World Journal of Pathology.
- Ad hoc reviews (various cytopathology & urology journals).
- Director Genito-Urinary pathology resident rotation.

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
- Member of advisory and executive committee, Optilab, MUHC

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- Member of GI and Lung team
- Member of quality and risk management team

Fraser, R.

- Director, Maude Abbott Medical Museum of McGill University.
- Member, James McGill Society Council.
- Member, Osler Library Board of Directors
- Member, Pathology Curriculum Committee

Gao, Z.

- Chair, McGill Department of Pathology
- Glen site Director, Department of Pathology, McGill University Health Center
- Chair, Department of Pathology academic committee
- Director, GI/Liver Pathology Fellowship program
- Advisor, Jewish General Hospital and St Mary's Health Center
- Chair, Canadian Association of Pathology Chairs
- Member, American Association of Pathology Chairs
- Fellow, Royal Society of Medicine (London, UK)
- Fellow, Canadian Academy of Health Sciences
- Member, membership committee, Canadian Academy of Health Sciences

Guiot, M.C.

- Site director, Neuropathology, MNH
- Member, Executive committee, Optilab MUHC
- Member, QRM, Optilab, MUHC

Haegert, D.

- Director, Molecular Pathology within Core Molecular Biology Lab.

Haliotis, T

- Ethics Officer, Executive Committee, HMAQ.
- Member, Lady Davis Institute for medical research, JGH

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.
- President, Quebec association of pathologists
- APQ representative, comité ministériel d'anatomo-pathologie, Quebec

Kanber, Y

- Member of E-journal committee, American Society of Cytopathology.
- Member AFC Cytopathology program committee.
- Chair, AFC Cytopathology competence committee

Karamchandani J

- Deputy-director, MUHC-Optilab Division of Pathology
- Director, Immunohistochemistry, Her2 FISH Testing, Special stains
- Co-director, Pathology Residency Training program
- Director, C-BIG Repository

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Lavoie, J.

- Member, MUHC Pathology Quality Assurance committee
- Associate director of Cytogenetics, MUHC Glen site
- Director of the McGill CCMG fellowship program.

Marcus, V.

- Director of GI-Liver Pathology Subspecialty Service MUHC
- Assistant program director for GI/Liver Fellowship program.
- Chair of MUHC Optilab GI Project Team.

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
- Director, Transplantation Pathology, MUHC
- Director, Hematopathology, MUHC.

Nguyen, VH

- Co-director Residency Program.
- Member of Advisory Committee of Biomedical Laboratory Technology Program, Dawson College.

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
- Director, Rosalind and Morris Goodman Cancer Research Centre, McGill University

Spatz, A.

- Member of the University Tenure Committee.
- Scientific committee member, Melanoma Research Alliance, Washington, DC
- Co-chair, Canadian Cancer Trials Group – Melanoma committee
- Chief Division of Pathology-MUHC Optilab Grappe
- Chair, MUHC Optilab Research committee

Telleria, C.

- Editorial board member, Cancer growth and Metastasis(Sage Publishing)
- Editorial board member, Hormones and Cancer(Springer)
- Editorial board member, Oncology Reports(Spandidos Publications)
- Editorial board member, PLOS ONE

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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-Marshall 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 / Optilab MUHC Pathology held its 1st Joint Retreat at Hotel Intercontinental on February 19, 2019.
- March 16-21: The department presented 2 abstracts at the 108th USCAP Annual meeting, National Harbor, Maryland.
- March 17-22: The Residency Training Program passed Royal College accreditation, Recommended Status-Accredited program with follow-up by regular accreditation review (8 years-2027).
- May: The 16th edition of the McGill Cytopathology Review Course
- Apr. 28-May 2, 2019 .The Henry C. Witelson Ocular Pathology Laboratory presented 22 abstracts at the ARVO's annual meeting in Vancouver, BC.
- June 14th: The department held its Annual Finlayson Research Day with Dr. Matt Van deRijn, Professor of Pathology, Stanford University School of Medicine, Stanford, CA as the keynote speaker. 18 abstracts and 6 oral presentations.
- June 22-25, Canadian Association of Pathologists (CAP-ACP) annual meeting was held in Niagara Falls. The following are a few highlights of McGill Department of Pathology on the national level:
 - 1) Our residents won 2 out of the 3 best poster awards.
 - 2) Dr. Fadi Brimo was elected as the president of Canadian Society of Cytopathology
 - 3) Dr. Jason Karamchandani was nominated as the Treasurer for CAP-ACP
 - 4) Dr. Zu-hua Gao was nominated as the "Chair of Canadian Chairs of Pathology and Laboratory Medicine"
 - 5) Dr. Alan Spatz Chaired the session of molecular diagnostics
 - 6) Dr. Miguel Burnier Chaired the session of ocular pathology
 - 7) Dr. Badia Chergui represented APQ in the general council meeting
- July: The department welcomed four new residents, Drs. Mariya Kuk, Jonathan Kin Lun Lai, Carel Léance Olory, Tahmina Sultana.
- July: Competency by design (CBD) was implemented for the anatomical pathology residency training program.
- August: The fifth Academic Renewal Fund Research Competition, five projects were funded.
- August 14-16th, 2019, Ophthalmic Pathology Review Course was successfully held.
- November: Resident training program retreat
- Pathology Scientific Lecture Series featured six invited speakers from across Canada, one speaker from our staff and one speaker from our Associate members.

▪ **Promotion**

- Promotion committee evaluated 4 dossiers, and Dr. Van Nguyen's promotion to associate professor was approved by the faculty

▪ **Recruitments**

- Recruited one dermatopathologist (Dr. Marie Daoud) to the Glen site and one neuropathologist (DR. Joshua Sonnon) to the MNI site.

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- Recruited one associate member to the department: Christopher Borchers, Director of McGill Proteomics platform
- **Retirements and departures**

Honours, awards, and prizes:

Burnier, M

- Titulo Professor, Honoris Causa, Escola Paulista Medicina, São Paulo, Brazil Brazil
- The Victor T. Curtin Lecture Award, Bascom Palmer Eye Institute, Miami, Florida

Brimo, F.

- Appointed director of Clinical Research in the Pathology Department MUHC.
- Appointed head of the Research promotion section of Pathology Residency Training Committee-MUHC Residency.
- The Genitourinary Pathology Society Certificate of Exemplary Service for the Role of Editor of case of the Week.

Camilleri-Broët, S.

- Appointed Director of Molecular Pathology Laboratory MUHC.
- Appointed as a member of Optilab advisory and executive committees.

Fiset, P.O.

- Leader for Optilab Lung Group

Guiot, MC.

- Member of the Optilab MUHC Pathology executive committee.

Karamchandani, J

- Named Killam Scholar.

Lavoie, J

- Member Optilab/MUHC Core Molecular Cytogenetics medical board.

Park, M.

- James McGill Professorship Award
- Diane and Sal Guerrero Chair in Cancer Genetics.
- Fellow of the Royal Society of Canada.
- Fellow of the Canadian Academy of Health Sciences
- Canadian Cancer Society, Robert L. Noble Prize
- Chair of the AACR Tumor Microenvironment Network
- Grand Prix Scientifique, Quebec Breast Cancer Foundation

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 centers 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.

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- Dr. Burnier's ocular pathology laboratory is an international referral center on complex ocular pathology cases.