



**Faculty of Medicine**  
**Programs, Courses and University Regulations**  
**2018-2019**



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This publication provides guidance to prospects, applicants, students, faculty and staff.

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# 1 Medicine

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## 1.1 Location

### Faculty of Medicine

Administrative Offices  
3605 de la Montagne Street  
Montreal QC H3G 2M1  
Canada

### Educational Services

McIntyre Medical Sciences Building  
3655 Promenade Sir-William-Osler, Room 601  
Montreal QC H3G 1Y6  
Canada

### General Information

Administrative Offices: 514-398-3515  
Educational Services: 514-398-1768  
Admissions Information: 514-398-3517  
Website: [www.mcgill.ca/medicine](http://www.mcgill.ca/medicine)

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## 1.2 About Medicine

The mission of the McGill Faculty of Medicine is to **educate** health care practitioners and scientists based on the highest standards of excellence and principles of life-long learning and to pursue novel **research** and clinical **innovation** to improve the health of individuals in the communities it serves. It provides training in undergraduate medicine, postgraduate medicine, nursing, physical and occupational therapy, and communication sciences and disorders, as well as in the biomedical sciences. The Faculty is guided by its values of professionalism, which include: compassion, integrity and honesty, respect and collaboration, openness, connectedness to its community, and altruism.

### 1. Education

More than 7,900 students, residents and fellows are distributed throughout the Faculty of Medicine's schools, as well as in its numerous institutes and centres. They are supported by 4,600 academics and support staff committed to the Faculty's tripartite mission of education, research, and service to society. Faculty programs are rooted in a scholarship of education. These programs ensure the Faculty's students are oriented to preserving health, are technically competent, are adept at solving problems, and are capable of functioning as part of a multidisciplinary team committed to life-long learning both for themselves and for their patients. Cutting-edge facilities use sophisticated environments and tools to expose students to the most advanced methodologies in experiential learning for the delivery of the best possible and safest care.

### 2. Research

The Faculty of Medicine is home to close to 4,000 investigators, graduate students, and postdoctoral fellows, and accounts for more than 60% of all research across McGill University. It encourages and supports outstanding research trainees and research training programs that contribute to the understanding of the basic mechanisms of health and disease. An emphasis is placed on collaboration between basic and clinical sciences, to accelerate the translation of research into better treatments and care, as well as between members of the Faculty and researchers in other disciplines. The Faculty's research encompasses the scholarship of discovery and integration.

### 3. Service

The Faculty of Medicine is committed to contributing to the development of healthier societies at the local, national, and international levels through

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**2 Administrative Officers**

Administrative Officers in the Faculty of Medicine

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He was instrumental in developing the former Life Sciences Library, which had its origin in the Montreal Medical Institution. He left to McGill his extensive







**Note for Nursing:** See the advising structure under "Support for Students" in the [Ingram School of Nursing Faculty and Student Handbook](#).

**Related Services**

Please refer to : [Student Services – Downtown Campus](#) or

- **International English Language Testing System (IELTS)**  
A band score of 6.5 or better.
- **University of Michigan English Language Test (MELAB)**  
A minimum mark of 85%.
- **Advanced Placement International English Language (APIEL)**  
A minimum score of 4.

### 5.2.3 Vaccination/Immunization Requirements for Health Sciences Programs

A **compulsory** immunization program exists at McGill for students in the Health Sciences programs. Health Sciences students must start the immunization process as soon as they are accepted at McGill and must complete it well before they are permitted contact with patients. Entry into the McGill University Teaching Hospitals may be delayed if immunizations are incomplete according to the information provided by the McGill Student Health Service: [www.mcgill.ca/studenthealth/immunize/forms](http://www.mcgill.ca/studenthealth/immunize/forms).

Proof of immunity must be written and signed by either a nurse or a physician. For details, see [www.mcgill.ca/studenthealth/immunize/vaccine](http://www.mcgill.ca/studenthealth/immunize/vaccine)

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### 5.3 Fees: Health Sciences

The information in this publication was updated in April 2018. The University reserves the right to make changes without notice in the published scale of fees.

Further information regarding fees is available at [University Regulations & Resources > Undergraduate > : Fees](#) , and on the [Student Accounts](#) website. For additional fees per faculty and school, see [www.mcgill.ca/student-accounts/tuition-charges/fallwinter-term-tuition-and-fees/undergraduate-fees](http://www.mcgill.ca/student-accounts/tuition-charges/fallwinter-term-tuition-and-fees/undergraduate-fees).

#### Fees for the Health Sciences (rates as of 2018–2019)

##### General Fees

###### Application Fees:

All undergraduate programs, <i>excluding</i> Medicine and Dentistry	\$110.40 (as of Winter 2019)
Medicine and Dentistry	\$154.56

### Dentistry Extra Fees

Supplemental or Reread Exam Request Fee	\$39.65 per exam
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### Dental Clinic/Lab Usage Fee (as of 2018–2019)

Second Year	\$1,122.56
Third Year	\$2,245.10
Fourth Year	\$2,245.10

### Dentistry - Laptops

The Faculty of Dentistry uses web-based courseware and examinations. Students are required to be equipped with laptops that meet certain minimum requirements.

### Dentistry and Medicine - Microscopes

In order to ensure that each student is adequately equipped for the microscopic work in histology, microbiology and pathology, a binocular microscope is provided for all students in first and second year.

### Medicine Fees

Books, Laboratory Materials, Gloves, Anatomy Dissection Kit, Stethoscope, BP cuff, etc.	approximately \$1,500 to \$2,000 (for duration of program)
2 Short White Coats with McGill Logo	approximately \$75
<i>Collège des médecins du Québec</i> (CMQ) registration fee – beginning of First Year (September 30)	\$105

### Medicine Extra Fees

Supplemental or Reread Exam Request Fee	\$39.65 per exam (see <a href="#">Tuition Fees</a> )
Vaccines	see <a href="#">Student Health Service</a>
French Medical Workshop (optional registration; recommended) – <i>All students are required to have working French knowledge during clinical rotations (years 2, 3, 4)</i>	\$250 (see <a href="#">Language Requirements</a> )

### Medicine - Laptops

The M.D.,C.M. program uses web-based courseware and examinations. Students are required to be equipped with laptops that meet certain requirements throughout the 4 years of the M.D.,C.M. program.

## Nursing Fees

Name Badge – First Year	approximately \$25
OIIQ registration fee (paid at the OIIQ)	approximately \$250 (for duration of program, subject to change by the OIIQ)
Local transportation to clinical sites	\$70/month
Clinical Skills Kit	amount varies as per course needs

## Physical and Occupational Therapy Fees

Books and Other Equipment	\$1,000
Laboratory Materials	\$64.56

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## 5.4 Immigration Information

Unless their studies at McGill will be completed in less than six (6) months, all students who are not Canadian citizens or Permanent Residents of Canada must obtain proper authorization from both Quebec and Canadian Immigration officials prior to proceeding to Canada and/or commencing studies. The process begins with a Letter of Acceptance from McGill University.

Details on Canadian immigration regulations may be obtained from the closest Canadian Visa Service (CVS) of [Immigration Canada](#).

In addition, International Student Services prepares a “Getting Started” pamphlet along with a detailed Handbook for international students, which is sent to all accepted applicants. The Handbook is also available on the [International Student Services website](#).

For further information, please contact:

International Student Services  
Brown Student Services Building  
3600 McTavish Street, Suite 3215  
Montreal QC H3A 0G3  
Telephone: 514-398-4349  
Website: [www.mcgill.ca/internationalstudents](http://www.mcgill.ca/internationalstudents)  
Email: [international.students@mcgill.ca](mailto:international.students@mcgill.ca)

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## 5.5 Facilities

The following facilities are associated with the McGill Health Sciences.

### 5.5.1 Buildings

#### **680 Sherbrooke Street West, 18th, 19th, and 20th floors, Montreal QC H3A 0B8**

After many decades in Wilson Hall, 680 Sherbrooke is now home to the Ingram School of Nursing, its faculty, staff, and students. These three topmost floors provide office space, student lounge areas, classroom settings, and learning laboratories for the School.

#### **1010 Sherbrooke Street West, Suite 1210, Montreal QC H3A 2R7**

The Faculty of Medicine Admissions and University Advancement Offices are located in this building.

#### **3605 de la Montagne Street, Montreal QC H3G 2M1**

This building, built in 1925, comprises the administrative offices of the Faculty of Medicine.



This six-storey structure is a world class research facility for genomics and proteomics. Founded in 2002, the Centre has developed a world-renowned expertise in complex genetic disorders such as cardiac disease, asthma, and Type 2 diabetes, and has become a resource and a networking site for various research initiatives in human health, forestry, infectious diseases, agriculture, and environment. The Centre is shared by several groups, including the Montreal Genome Centre; the Montreal Proteomics Centre; the Genome Quebec Expertise Centre; the Mass Spectrometry Unit; the Bone Research Centre; bio-business incubators; the Alan Edwards Centre for Research on Pain; and the Centre of Genomics and Policy.

**McGill University Life Sciences Complex**

3649 Promenade Sir-William-Osler, Montreal QC H3G 0B1

1160 Pine Avenue West, Montreal QC H3A 1A3

The Life Sciences Complex encompasses the McIntyre Medical Sciences Building, the Stewart Biology Building, and two additional state-of-the-art facilities which were opened in 2008: the Francesco Bellini Life Sciences Building and the Goodman Cancer Research Centre. This 340,000-square-foot system of buildings houses a dozen core facilities and over 2,000 researchers, technical personnel, graduate students, and postdoctoral fellows. The cornerstone of the complex is the new construction of 180,000 square feet that was expressly designed to encourage cross-disciplinary research, and is totally dedicated to research activities. It also bridges the two other b

## 5.5.2 Hospitals

McGill Univer



There are three other principal teaching hospitals:

**Jewish General Hospital** (Integrated Health and Social Services University Network for West-Central Montreal/*Centre intégré universitaire de santé et services Sociaux (CIUSSS) du Centre-Ouest-de-l'Île-de-Montréal*)

3755 C

The Douglas Institute is one of the largest research centres in mental health in the country, with a team of over 70 scientists and clinical researchers and around 200 university students. This team is devoted to making better sense of the causes of mental disorders-whether genetic, environmental, cultural, or social-as well as developing diagnostic tools, treatments and prevention methods. Also, the Douglas Institute Research Centre is home to McGill University centres in schizophrenia, aging, and suicide, as well as the Montreal Pan American Health Organization/World Health Organization Collaborating Centre for Reference and Training in Mental Health, which of

This Unit is capable of supporting 12 research subjects on an in-patient basis. The facility is unique in Canada, in that it allows strict, in-house monitoring and testing of research subjects over prolonged periods while they consume diets prepared in-house. The first floor houses a state-of-the-art metabolic kitchen to prepare foods in a controlled manner, including a sitting area for meal consumption. The second floor houses an interview room to provide for attainment of written ethical consent/assent. A research/clinical assessment room is dedicated to procedures that include blood sampling by a phlebotomy team or clinical staff in adults, infants, and children.

The Unit is a self-supporting initiative which is available for use by external researchers. For further information regarding collaborative or independent extramural research interests, contact the Director of the *School of Human Nutrition*.

### 5.5.5 Research Centres

- *section 5.5.5.1: Alan Edwards Centre for Research on Pain*
- *section 5.5.5.2: Artificial Cells and Organs Research Centre*
- *section 5.5.5.3: Biomedical Ethics Unit*
- *section 5.5.5.4: Centre for Bone and Periodontal Research*
- *section 5.5.5.5: Centre for Medical Education*
- *section 5.5.5.6: Centre for Research on Brain, Language and Music*
- *section 5.5.5.7: Centre for Research in Reproduction and Development*
- *section 5.5.5.8: Centre for Translational Research in Cancer*
- *section 5.5.5.9: Ludmer Centre for Neuroinformatics & Mental Health*
- *section 5.5.5.10: McGill AIDS Centre*
- *section 5.5.5.11: McGill Centre for Research in Neuroscience*
- *section 5.5.5.12: McGill International TB Centre*
- *section 5.5.5.13: McGill University Research Centre for Studies in Aging*
- *section 5.5.5.14: Rosalind and Morris Goodman Cancer Research Centre*

#### 5.5.5.1 Alan Edwards Centre for Research on Pain

Genome Building, Suite 3100  
740 Doctor Penfield Avenue  
Montreal QC H3A 0G1  
Telephone: 514-398-8975  
Fax: 514-398-8121  
Website: [painresearchcenter.mcgill.ca](http://painresearchcenter.mcgill.ca)

Pain research at McGill University is carried out by The Alan Edwards Centre for Research on Pain, which comprises researchers from the Faculties of Medicine, Dentistry and Science. The main goal of the Centre is to bring together the McGill community of basic and clinical pain researchers to promote research that will result in cures for chronic pain. Through its own activities and international collaborations, the Centre focuses on new discoveries and their clinical applications that will improve the prevention and treatment of chronic pain.

#### 5.5.5.2 Artificial Cells and Organs Research Centre

McIntyre Medical Sciences Building, Room 1004  
3655 Promenade Sir-William-Osler  
Montreal QC H3G 1Y6  
Telephone: 514-398-3512  
Fax: 514-398-7452  
Website: [www.medicine.mcgill.ca/artcell](http://www.medicine.mcgill.ca/artcell)

This Centre concentrates on interdisciplinary research on artificial cells first invented here (Chang, McGill, 1957, Science 1964) and since evolved into micro-nano systems; nanomedicine; nanobiotherapeutics; nanobiotechnology; nanotechnology; blood substitutes based on nanobiotechnology; hemoperfusion; bioencapsulation of enzymes, cells, stem cells, probiotics; regenerative medicine; delivery systems for drug, enzymes, genes, etc.

At present, the members of this centre at McGill come from different specialties: Physiology, Biomedical Engineering, Medicine, Surgery, Bioengineering, Biotechnology, and Chemical Engineering. This is a 320.2gwaes(Mc7 th 2s i 0 1 320.2gws0195specTm(ain, wo1 Tmoncenbiannu2gwmeesup(Th Tmeries ties of)Tj1

### **5.5.5.3 Biomedical Ethics Unit**

3647 Peel Street

Montreal QC H3A 1X1

Telephone: 514-398-6668

Website: [www.mcgill.ca/biomedicalethicsunit](http://www.mcgill.ca/biomedicalethicsunit)

The Biomedical Ethics Unit (BEU) offers graduate courses in bioethics.

#### **5.5.5.6 Centre for Research on Brain, Language and Music**

3640 rue de la Montagne

The Centre provides a high quality environment for training clinician-scientists in cancer research. The trainees include both graduate students (Experimental Medicine, Pharmacology and Therapeutics, Pathology) as well as Ph.D. and M.D. scientists interested in postdoctoral experience working specifically on clinically oriented or relevant models or problems.

#### 5.5.5.9 Ludmer Centre for Neuroinformatics & Mental Health

Email: [info@ludmercentre.ca](mailto:info@ludmercentre.ca)

Website: [ludmercentre.ca/mcgil](http://ludmercentre.ca/mcgil) (to join our mailing list)

The Ludmer Centre for Neuroinformatics & Mental Health was founded on the belief that science is on the cusp of a revolution in our ability to understand and treat brain disorders, provided we can bring together the right computational infrastructure, datasets, and expertise to apply a big-data approach to brain research.

An innovative partnership between three cutting-edge McGill-affiliated research facilities, the Centre brings together four complementary research pillars—neuroinformatics, neuroimaging, epigenetics, and statistical genetics—under the scientific leadership of three world-renowned leaders supported by a cadre of over 75 researchers and neuroinformatics staff. Together, they lead innovative research that is generating novel datasets and insights, while concurrently innovating and expanding the "big-data" tools and computational infrastructure required for their analysis.

- Dr. Michael Meaney leads the Centre's epigenetics pillar, the Sackler Program for Epigenetics & Psychobiology at the Douglas Mental Health University Institute Research Centre.
- Dr. Alan Evans leads the neuroimaging and neuroinformatics pillars, the McGill Centre for Integrative Neuroscience (MCIN) at the Montreal Neurological Institute.
- Dr. Celia Greenwood leads the statistical genetics pillar, the Genomics, Bioinformatics & Statistical Genetics lab at the Lady Davis Institute for Medical Research at the Jewish General Hospital.

A key Ludmer Centre goal is the mentorship of new researchers across varied disciplines—to develop transdisciplinary research cadres capable of maximizing the potentials inherent in the Centre's neuroinformatics infrastructure, tools, and datasets. Supported by a team of informatics experts, graduate, master's, and doctoral students are offered unique hands-on opportunities to advance mental health and neurodegenerative research while contributing to the expansion of Canada's leading neuroinformatics infrastructure.

To learn more, [contact us](#) to join our mailing list.

#### 5.5.5.10 McGill AIDS Centre

Based at the Lady Davis Institute for Medical Research at the Jewish General Hospital

3755 Côte Steclia Greenw2n41 0 0 1 6te:

In honor of Dr. Mark Wainberg, for his dedication to HIV research, his tireless advocacy for the rights and benefits of HIV patients, and his vision to go beyond HIV to combat other important emerging pathogenic human viruses, the McGill AIDS Centre will be renamed the “Wainberg Centre for Complex and Emerging Viral Infections.” More details will follow.

#### **5.5.5.11 McGill Centre for Research in Neuroscience**

Montreal General Hospital, Livingston Hall, L7 128  
Research Institute of the McGill University Health Centre  
1650 Cedar Avenue  
Montreal QC H3G 1A4  
Telephone: 514-934-8094  
Fax: 514-934-8216  
Website: [www.mcgill.ca/crn](http://www.mcgill.ca/crn)

The McGill Centre for Research in Neuroscience (CRN), which was officially established as a Uni





Barton Building  
21,111 Lakeshore Road  
Ste. Anne de Bellevue QC H9X 3V9  
Website: [www.mcgill.ca/library/branches/macdonald](http://www.mcgill.ca/library/branches/macdonald)

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## 6 Academic Units in the Faculty of Medicine

For a full list of departments, schools, institutes, centres, and units in the faculty of Medicine, please refer to [www.mcgill.ca/medicine/departments-schools](http://www.mcgill.ca/medicine/departments-schools).

- *section 6.1: Anatomy and Cell Biology*
- *section 6.2: Anesthesia*
- *section 6.3: Artificial Cells and Organs Research Centre*
- *section 6.4: Biochemistry*
- *section 6.5: Biomedical Engineering*
- *section 6.6: Biomedical Ethics*
- *section 6.7: Communication Sciences and Disorders*
- *section 6.8: Dermatology*
- *section 6.9: Diagnostic Radiology*
- *section 6.10: Emergency Medicine*
- *section 6.11: Epidemiology, Biostatistics, and Occupational Health*
- *section 6.12: Family Medicine*
- *section 6.13: Geriatric Medicine*
- *section 6.14: Human Genetics*
- *section 6.15: Medical Physics*
- *section 6.16: Medicine*
- *section 6.17: Microbiology and Immunology*
- *section 6.18: Neurology and Neurosurgery*
- *Nursing, Ingram School of*
- *section 6.19: Obstetrics and Gynecology*
- *section 6.20: Oncology*
- *section 6.21: Ophthalmology*
- *section 6.22: Otolaryngology – Head and Neck Surgery*
- *section 6.23: Pathology*
- *section 6.24: Pediatrics*
- *section 6.25: Pharmacology and Therapeutics*
- *Physical and Occupational Therapy, School of*
- *section 6.26: Physiology*
- *section 6.27: Psychiatry*
- *section 6.28: Rosalind and Morris Goodman Cancer Research Centre*
- *section 6.29: Social Studies of Medicine*
- *section 6.30: Surgery*

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### 6.1 Anatomy and Cell Biology

#### 6.1.1 Location

Strathcona Anatomy and Dentistry Building  
3640 University Street, Room M-28  
Montreal QC H3A 0C7

Telephone: 514-398-6350  
Website: [www.mcgill.ca/anatomy](http://www.mcgill.ca/anatomy)

### 6.1.2 Core Courses

This Department contributes to the multidisciplinary curriculum of Fundamentals of Medicine and Dentistry (FMD) and Clerkship components of the M.D.,C.M. program.

### 6.1.3 Putting It All Together: Basic Science, Medicine, and Society (Anatomy for Surgeons – Basic and Translational Science Selective)

A selective of practical anatomy, seminar presentations and clinical anatomical conferences is given during Senior Clerkship Component which supplements the knowledge of human anatomy obtained in the core program. It is especially designed to provide the anatomical basis for surgical practice.

### 6.1.4 Other Courses

The Department offers a range of courses leading to the Liberal Program/Major/Honours B.Sc. in Cell Biology and is well-equipped for graduate research leading to M.Sc. and Ph.D. degrees. See the Faculty of Medicine's [Graduate and Postdoctoral Studies](#) section and the Faculty of Science's [Undergraduate](#) section.

### 6.1.5 Anatomy and Cell Biology Faculty

#### Chair

Craig Mandato

#### Emeritus Professors

Gary C. Bennett; B.A., B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)

John J.M. Bergeron; B.Sc.(McG.), D.Phil.(Oxf.)

James R. Brawer; B.Sc.(Tufts), Ph.D.(Harv.)

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**Associate Professors**

- Orest W. Blaschuk; B.Sc.(Winn.), M.Sc.(Manit.), Ph.D.(Tor.) (*joint appt. with Surgery*)
- Eugene Daniels; M.Sc., Ph.D.(Manit.)
- Timothy Kennedy; B.Sc.(McM.), M.Phil., Ph.D.(Col.) (*joint appt. with Neurology and Neurosurgery*)
- Craig Mandato; B.Sc., Ph.D.(Wat.)
- Geoffroy P. Noël; Ph.D.(Br. Col.)
- John F. Presley; B.A., Ph.D.(Texas)

**Assistant Professors**

- Susanne Bechstedt; B.Sc.(Flor. St.), M.Sc.(Friedrich Schiller Univ.), Ph.D.(Max Planck)
- Khanh Huy Bui; M.Sc.(Chalmers Univ. of Tech.), Ph.D.(ETH Zürich)
- Javier Vargas; Ph.D.(UCM, Spain)
- Gabriel Venne; Ph.D.(Qu.)
- Nicole Ventura; Ph.D.(Qu.)

**Associate Members**

- Daniel Bernard (*Pharmacology and Therapeutics*)
- Claire Brown (*Physiology*)
- Colin Chalk (*Neurology and Neurosurgery*)
- Jean-François Cloutier (*Neurology and Neurosurgery*)
- Claudio Cuello (*Pharmacology and Therapeutics*)
- Giovanni DiBattista (*Medicine*)
- Allen Ehrlicher (*Bioengineering*)
- Alyson Fournier (*Neurology and Neurosurgery*)

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## **Adjunct Professors**

Michel Cayouette; Ph.D.(Laval)

Frédéric Charron; B.Sc.(Montr.), Ph.D.(McG.)



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## **6.3 Artificial Cells and Organs Research Centre**

### **6.3.1 Location**

McIntyre Medical Sciences Building  
3655 Tm(h Centre) Sciences Building

## Associate Members

M. Kinsella (*Bioengineering*)

D. Nicolau (*Bioengineering*)

P. Ponka (*Medicine*)

D. Shum-Tim (*Surgery*)

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## 6.4 Biochemistry

### 6.4.1 Location

McIntyre Medical Sciences Building  
3655 Promenade Sir-William-Osler, Room 905  
Montreal QC H3G 1Y6  
Telephone: 514-398-1898  
Fax: 514-398-7384  
Website: [www.mcgill.ca/biochemistry](http://www.mcgill.ca/biochemistry)

### 6.4.2 Core Courses

This Department contributes to the multidisciplinary curriculum components of Fundamentals of Medicine and Dentistry (FMD), Transition to Clinical Practice (TCP), and Clerkship components of the M.D.,C.M. program. In addition, see the [Elective Program](#) for elective opportunities.

### 6.4.3 Other Courses

The Department offers a range of courses leading to the Liberal Program/Majors/Honours B.Sc. in Biochemistry and is well-equipped for graduate research leading to the M.Sc. and Ph.D. degrees. See the Faculty of Medicine's [Graduate and Postdoctoral Studies](#) section and the Faculty of Science's [Undergraduate](#) section.

### 6.4.4 Biochemistry Faculty

#### Chair

Albert Berghuis

#### Emeritus Professors

Rhoda Blostein; B.Sc., M.Sc., Ph.D.(McG.), F.R.S.C.

Philip E. Branton; B.Sc., M.Sc., Ph.D.(Tor.), F.R.S.C. (*Gilman Cheney Professor of Biochemistry*)

Peter E. Braun; B.Sc., M.Sc.(Br. Col.), Ph.D.(Calif., Berk.)

Robert E. MacKenzie; B.Sc.(Agr.)(McG.), M.N.S., Ph.D.(Cornell)

Edward A. Meighen; B.Sc.(Alta.), Ph.D.(Calif., Berk.)

Walter E. Mushynski; B.Sc., Ph.D.(McG.)

Gordon C. Shore; B.Sc.(Guelph), Ph.D.(McG.)

John R. Silvius; B.Sc., Ph.D.(Alta.)

Clifford P. Stanners; B.Sc.(McM.), M.A., Ph.D.(Tor.)

Maria Zannis-Hadjopoulos; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with Oncology and Medicine*)

#### Professors

Nicole Beauchemin; B.Sc., M.Sc., Ph.D.(Montr.) (*joint appt. with Oncology and Medicine*)

Albert Berghuis; B.Sc., M.Sc.(Rijks Univ. Groningen, The Netherlands), Ph.D.(Br. Col.)

Maxime Bouchard; B.Sc., Ph.D.(Laval)

Imed Gallouzi; Maitrise, D.E.A., Ph.D.(Montpellier, France)

**Professors**

Kalle Gehring; B.A.(Brown), M.Sc.(Mich.), Ph.D.(Calif., Berk.) (*Chercheur National du FRSQ*)

Vincent Giguère; B.Sc., Ph.D.(Laval) (*joint appt. with Oncology and Medicine*)

Philippe Gros; B.Sc., M.Sc.(Montr.), Ph.D.(McG.), F.R.S.C. (*James McGill Professor*)

Alba Guarné; B.Sc., M.Sc., Ph.D.(Barcelona)

Roderick R. McInnes; B.Sc., M.D.(Dal.), Ph.D.(McG.)

William Muller; B.Sc., Ph.D.(McG.) (*Canada Research Chair in Molecular Oncology*)

Alain Nepveu; B.Sc., M.Sc.(Montr.), Ph.D.(Sher.) (*James McGill Professor*) (*joint appt. with Oncology and Medicine*)

Morag Park; B.Sc., Ph.D.(Glas.), F.R.S.C. (*Diane and Sal Guerrero Chair in Cancer Genetics*) (*James McGill Professor*) (*joint appt. with Oncology and Medicine*)

Arnim Pause; B.Sc., M.Sc.(Konstanz), Ph.D.(McG.)

Jerry Pelletier; B.Sc., Ph.D.(McG.) (*James McGill Professor*)

Nahum Sonenberg; M.Sc., Ph.D.(Weizmann Inst.), F.R.S.C., F.R.S. (*James McGill Professor*) (*Gilman Cheney Chair in Biochemistry*)

David Y. Thomas; B.Sc.(Brist.), M.Sc., Ph.D.(Univ. College, Lond.), F.R.S.C. (*Canada Research Chair in Molecular Genetics*)

Michel L. Tremblay; B.Sc., M.Sc.(Sher.), Ph.D.(McM.), F.R.S.C. (*Jeanne and Jean-Louis Levesque Chair in Cancer Research*)

**Associate Professors**

Josée Dostie; B.Sc.(Sher.), Ph.D.(McG.) (*CIHR New Investigators Award; Chercheure-boursière du FRSQ*)

Thomas Duchaine; B.Sc., Ph.D.(Montr.) (*Chercheur-boursier du FRSQ*)

Bhushan Nagar; B.Sc., Ph.D.(Tor.)

Martin Schmeing; B.Sc.(McG.), Ph.D.(Yale) (*Canada Research Chair in Macromolecular Machines*)

Jose G. Teodoro; B.Sc.(W. Ont.), Ph.D.(McG.) (*CIHR New Investigators Award; Chercheur-boursier du FRSQ*)

Jason C. Young; B.Sc.(Tor.), Ph.D.(McM.)

**Assistant Professors**

Uri David Akavia; B.Sc., M.Sc., Ph.D.(Tel Aviv)

Maxime Denis; B.Sc., Ph.D.(Montr.)

Sidong Huang; B.A.(Boston), Ph.D.(Calif.) (*Canada Research Chair in Functional Genomics*)

Lawrence Kazak; Ph.D.(Camb.)

William Pastor; Ph.D.(Harv.)

Ian Watson; B.Sc., Ph.D.(Tor.) (*Canada Research Chair in Functional Genomics of Melanoma*)

**Associate Members**

Gary Brouhard (*Dept. of Biology*)

Robert S. Kiss (*Dept. of Medicine*)

Gergely Lukacs (*Dept. of Physiology*)

Janusz Rak (*Dept. of Medicine*)

Stéphane Richard (*Depts. of Medicine and Oncology*)

Selena M. Sagan (*Dept. of Microbiology & Immunology*)

Reza Salavati (*Inst. of Parasitology*)

Maya Saleh (*Dept. of Medicine*)

Erwin Schurr (*Ctr. for Host Resistance, MGH*)

Peter Siegel (*Goodman Cancer Ctr., Dept. of Medicine*)

Ivan Topisirovic (*Dept. of Oncology*)

Youla S. Tsantrizos (*Dept. of Chemistry*)



### Associate Members

Bernard Turcotte (*Dept. of Medicine*)

Josie Ursini-Siegel (*Dept. of Oncology*)

Simon Wing (*Dept. of Medicine*)

Xiang-Jiao Yang (*Goodman Cancer Ctr., Dept. of Medicine*)

### Adjunct Professors

Mirek Cygler (*Sask.*)

Jacques Drouin (*IRCM*)

Matthias Götte (*Alta.*)

Michael Hallett (*C'dia, Dept. of Biology*)

Enrico Purisima (*NRC/BRI*)

Julie St-Pierre (*Ott.*)

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## 6.5 Biomedical Engineering

### 6.5.1 Location

Duff Medical Building  
3775 University Street, Room 316  
Montreal QC H3A 2B4  
Telephone: 514-398-6736  
Email: [info.bbme@mcgill.ca](mailto:info.bbme@mcgill.ca)  
Website: [mcgill.ca/bbme/](http://mcgill.ca/bbme/)

### 6.5.2 Electives

The Department provides electives for medical students. For more information, see the [Elective Program](#).

### 6.5.3 Graduate Courses

The Department of Biomedical Engineering provides instruction and opportunities for interdisciplinary research in the application of engineering, mathematics, and the physical sciences to problems in medicine and the life sciences. Courses are offered for graduate students in the life sciences, and in engineering and the physical sciences leading to the Master's (M.Eng.) and Ph.D. in Biological and Biomedical Engineering.

For more information, see the Faculty of Medicine's [Graduate and Postdoctoral Studies](#) section.

### 6.5.4 Biomedical Engineering Faculty

#### Chair

D. Juncker

#### Emeritus Professor

T.M.S. Chang; B.Sc., M.D., C.M., Ph.D.(McG.), F.R.C.P.(C), F.R.S.(C) (*joint appt. with Physiology*)

#### Professors

D.L. Collins; B.Sc., M.Eng., Ph.D.(McG.) (*joint appt. with Neurology and Neurosurgery*)

H.L. Galiana; B.Eng., M.Eng., Ph.D.(McG.)

D. Juncker; Dipl., Ph.D.(Neuch-Switzerland)

R.E. Kearney; B.Eng., M.Eng., Ph.D.(McG.)

S. Prakash; B.Sc.(Hon.), M.Sc., M.Tech.(BHU), Ph.D.(McG.)

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## Professors

M. Tabrizian; B.Sc.(Iran), M.Sc., Ph.D.(PMC-France), M.B.A.(HEC) (*joint appt. with Dentistry*)

## Associate Professor

W.R.J. Funnell; B.Eng., M.Eng., Ph.D.(McG.) (*joint appt. with Otolaryngology*)

## Assistant Professors

A. Haidar; B.Sc.(Kuwait), M.Sc. A.(École Poly., Montr.), Ph.D.(McG.)

D.A. Rudko; B.Sc.(Br. Col.), M.Sc.(Vic., BC), Ph.D.(W. Ont.)

C.L. Tardif; B.Eng.(McG.), M.Sc.(Lond.), Ph.D.(McG.)

## Associate Members

S. Baillet (*Neurology and Neurosurgery*)

C. Baker (*Ophthalmology*)

F. Barthelat (*Mechanical Engineering*)

S. Blain-Moraes (*Physical and Occupational Therapy*)

M. Chacron (*Physiology*)

M. Chakravarty (*Psychiatry*)

K. Cullen (*Physiology*)

M. Driscoll (*Mechanical Engineering*)

A. Ehrlicher (*Bioengineering*)

S. Enger (*Oncology*)

A.C. Evans; B.Sc.(Liv.), M.Sc.(Sur.), Ph.D.(Leeds) (*Neurology and Neurosurgery*)

J. Gotman (*Neurology and Neurosurgery*)

D. Guitton (*Neurology and Neurosurgery*)

A. Hendricks (*Bioengineering*)

R. Hoge (*Neurology and Neurosurgery*)

A. Kamen (*Bioengineering*)

A. Katsarkas (*Otolaryngology*)

J. Kinsella (*Bioengineering*)

S. Komarova (*Dentistry*)

A.M. Lauzon (*Medicine*)

R. Leask (*Chemical Engineering*)

I. Levesque (*Medical Physics and Oncology*)

J. Li (*Mechanical Engineering*)

N. Li-Jessen (*Communications and Science*)

B. Misic (*Neurology and Neurosurgery*)

G. Mitsis (*Bioengineering*)

### Associate Members

W. Reisner (*Physics*)

A. Shmuel (*Neurology and Neurosurgery*)

B. Willie (*Pediatric Surgery*)

Y.B. Xia (*Bioengineering*)

### Adjunct Professors

P.G. Charette (Sher.)

I. El Naqa (Mich.)

C. Grova (C'dia)

J.-M. Lina (ETS)

M. Mekhail (Shriners)

J.L. Nadeau (Calif. Tech.)

G.B. Pike (Calg.)

A. Reader (King's, Lond.)

T. Veres (NRC)

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## 6.6 Biomedical Ethics

### 6.6.1 Location

3647 Peel Street, Room 103

Montreal QC H3A 1X1

Telephone: 514-398-6668

Website: [www.mcgill.ca/biomedicalethicsunit](http://www.mcgill.ca/biomedicalethicsunit)

### 6.6.2 Core Courses

The Biomedical Ethics Unit contributes to courses in Fundamentals of Medicine and Dentistry (FMD), Transition to Clinical Practice (TCP), Physicianship,



**Assistant Professors**

Noémie Auclair-Ouellet; B.A., M.Sc., Ph.D.(Laval)

Meghan Clayards; B.Sc.(Vic., BC), M.A., Ph.D.(Roch.)

Nicole Yee-Key Li-Jessen; B.Sc., M.Phil.(HK), Ph.D.(Pitt.)

**Assistant Professors (Professional)**

Kelly Root; B.A.(Ott.), M.Sc.(Dal.)

Sophie Vaillancourt; B.Sc., MOA(Montr.), M.B.A.(McG.)

**Faculty Lecturer**

Mariska Burger; B.Sc.(Heerlen)

**Assistant Professors (Part-Time)**

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## 6.8 Dermatology

### 6.8.1 Core Courses

This Department contributes to the multidisciplinary teaching in the M.D.,C.M. program, specifically during the Fundamentals of Medicine and Dentistry (FMD), Transition to Clinical Practice (TCP), and Clerkship components.

### 6.8.2 Electives

See the [Elective Program](#) for elective opportunities.

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## 6.9 Diagnostic Radiology

### 6.9.1 Location

Montreal General Hospital  
1650 Cedar Avenue, Room C5 118  
Montreal QC H3G 1A4  
Telephone: 514-934-8084  
Email: [radiology.residency@muhc.mcgill.ca](mailto:radiology.residency@muhc.mcgill.ca)  
Website: [www.medicine.mcgill.ca/radiology](http://www.medicine.mcgill.ca/radiology)

### 6.9.2 Core Courses

This Department contributes to the multidisciplinary curriculum components of Fundamentals of Medicine and Dentistry (FMD) and Transition to Clinical Practice (TCP) of the M.D.,C.M. program. In addition, see the [Elective Program](#) for elective opportunities.

#### 6.9.2.1 Courses

RADD 301 – TCP Radiology

### 6.9.3 Diagnostic Radiology Faculty

#### Professor and Chair

B. Gallix

#### Professors

R. del Carpio-O'Donovan

R. Lisbona

C. Reinhold

#### Associate Professors

A. Assaf

J. Chankowsky

M. Cortes

V. Derbekyan

M. Levental

## Assistant Professors

G. Abikhzer, P. Albuquerque, A. Aldis, G. Artho, G. Belley, A. Bessissow, M. Boily, L.M. Boucher, T. Cabrera, E. Camilioglu, L. Carpineta, J. Cassoff, J. Casullo, J. Chong, F. Discepola, R. Faingold, R. Forghani, H. Guilbeault, F. Habbab, M. Hickson, R. Jaffer, E. Kao, Z. Kellow, J. Kosiuk, B. Kovacina, C Lacroix, S. Lam, H. Le, G. Linnell, A. Mandelankis, M.H. Martin, K. Muchantef, J. Novales-Diaz, M. Perillo, F. Pinel-Giroux, V. Plessier, T. Powell, S. Probst, F. Proulx, L. Rosenbloom, A. Roy, C. Rush, K. Sayegh, A. Semionov, J. Taylor, C. Torres, M. Tsatoumas, M. Zhang

### 6.11.5 Postgraduate Medical Education (Residency in Public Health and Preventive Medicine)

The McGill residency program in Public Health and Preventive Medicine trains specialists to identify health problems in populations; to plan, implement, and evaluate programs to promote health and control disease; and to apply this knowledge to community-oriented clinical practice. The practice of public health and preventive medicine requires the development of knowledge in several academic fields (epidemiology, statistics, administration, and economics) and skills in different fields of practice such as public health surveillance, clinical preventive medicine, health care policy, health services organization, health promotion, prevention and control of infectious diseases, and occupational and environmental health.

For more information, please consult the [Epidemiology, Biostatistics, and Occupational Health website](#).

### 6.11.6 Graduate Courses in Epidemiology

Epidemiology is the study of the distribution and determinants of health and disease. It is a basic science to clinical medicine, public health, and health services research. Our graduate programs have been offered since the 1960s and are known for their strong quantitative and methodological content, as applied to a variety of health areas. We offer education and research training in the etiology, management and prevention of diseases, and the promotion of health. Areas of strength include:

- biostatistics;
- clinical and public health informatics;
- environmental and occupational health
- health care delivery and organization
- infectious diseases;
- pharmacoepidemiology;
- population and public health
- social epidemiology;
- epidemiologic methods
- chronic diseases
- reproductive and perinatal epidemiology
- global health;
- causal inference;
- and many crossdisciplinary activities.

The Department offers three degree programs of study in Epidemiology: **M.Sc.(Thesis)**, **M.Sc.(Non-Thesis)**, and **Ph.D.** See the Faculty of Medicine's [Graduate and Postdoctoral Studies](#) section for descriptions of courses and programs.

### 6.11.7 Graduate Courses in Biostatistics

Biostatistics is the study of statistics and statistical methods with application to the biomedical environment. The department has one of the largest concentrations of Ph.D. statisticians in any Canadian medical school. They receive funding from the Natural Sciences and Engineering Research Council of Canada and from other federal and provincial agencies that fund research in the quantitative and health sciences. The research focus of faculty members is on the development of new statistical methods for the collection and analysis of clinical and epidemiologic research data. The Department offers three programs in Biostatistics: **M.Sc.(Thesis)**, **M.Sc.(Non-Thesis)**, and **Ph.D.** See the Faculty of Medicine's [Graduate and Postdoctoral Studies](#) section for descriptions of courses and programs.

### 6.11.8 Graduate Courses in Public Health (M.Sc.P.H.)

The mission of the Master of Science in Public Health is to train outstanding public and population health professionals and future leaders by offering a rigorous academic program in methods, research, and practice. Students will study the foundations and principles of epidemiology and biostatistics, as applied to public health research and practice, in order to design, conduct, and analyze population-based, environmental, clinical, policy, and methodological public health research.



**6.11.10 Epidemiology, Biostatistics and Occupational Health Faculty****Chair**

G. Paradis

**Emeritus Professors**

M.R. Becklake; M.B.B.Ch., M.D.(Witw.), F.R.C.P.

J.F. Boivin; M.D.(Laval), S.M., Sc.D.(Harv.)

A. Lippman; B.A.(Cornell), Ph.D.(McG.) (*In memoriam*)

J. McCusker; M.D.,C.M.(McG.), M.P.H., Ph.D.(Col.)

O.S. Miettinen; M.D.(Helsinki), M.P.H., M.S., Ph.D.(Minn.)

I.B. Pless; B.A., M.D.(W. Ont.)

S.H. Shapiro; B.S.(Bucknell), M.S., Ph.D.(Stan.)

G. Thériault; M.D.(Laval), M.I.H., Dr.P.H.(Harv.)

S. Wood-Dauphinee; B.Sc.(Phys.Ther.), Dip.Ed., M.Sc.(A.), Ph.D.(McG.)

**Professors Post-Retirement**

J.F. Boivin; M.D.(Laval), S.M., Sc.D.(Harv.)

A. Ciampi; M.Sc., Ph.D.(Qu.), Ph.D.(Rome)

J. McCusker; M.D.,C.M.(McG.), M.P.H., Ph.D.(Col.)

I.B. Pless; B.A., M.D.(W. Ont.)

G. Thériault; M.D.(Laval), M.I.H., Dr.P.H.(Harv.)

S. Wood-Dauphinee; B.Sc.(Phys.Ther.), Dip.Ed., M.Sc.(A.), Ph.D.(McG.)

**Associate Professors Post-Retirement**

B. Case; B.Sc., M.D.,C.M., M.Sc.(McG.), Dip.Occ.Hyg., F.R.C.P.(C)

**Professors**

M. Abrahamowicz; Ph.D.(Cracow) (*James McGill Professor*)

J. Brophy; B.Eng.(McG.), M.Eng., M.D.(McM.), Ph.D.(McG.) (*joint appt. with Medicine*)

D. Buckeridge; M.D.(Qu.), M.Sc.(Tor.), Ph.D.(Stan.) (*CIHR Applied Public Health Chair*)

E.L.F. Franco; M.P.H., Dr.P.H.(Chapel Hill) (*joint appt. with Oncology*) (*James McGill Professor*)

R. Fuhrer; B.A.(CUNY (Brooklyn Coll.)), M.Sc., Ph.D.(Calif.-San Francisco) (*on leave Jan. to June 2018*)

C. Greenwood; B.Sc.(McG.), M.Sc.(Wat.), Ph.D.(Tor.) (*joint appt. with Oncology*)

T.W. Gyorkos; B.Sc.(McG.), M.Sc.(Bishop's), Ph.D.(McG.)

C. Hankins; B.A.(Hons.), M.D.(Calg.), M.Sc.(Lond.), Ph.D.(Amster.), C.C.F.P., F.R.C.P.(C)

J.A. Hanley; B.Sc., M.Sc.(N.U.I.), Ph.D.(Wat.)

C. Infante-Rivard; M.D.(Montr.), M.P.H.(Calif.-LA), Ph.D.(McG.), F.R.C.P.(C) (*James McGill Professor*)

L. Joseph; M.Sc., Ph.D.(McG.)

J. Kaufman; B.A.(Johns Hop.), Ph.D.(Mich.)

M.S. Kramer; B.A.(Chic.), M.D.(Yale) (*joint appt. with Pediatrics*) (*James McGill Professor*)

R. Menzies; M.D.,C.M., M.Sc.(McG.) (*joint appt. with Medicine*)

M. Pai; M.B.B.S.(Stanley Med. Coll.), M.D.(Christian Medical Coll.), Ph.D.(Calif., Berk.) (*Canada Research Chair*)

G. Paradis; M.D.(Montr.), M.Sc.(McG.), F.R.C.P.(C) (*Strathcona Prof. in Epidemiology*)

R.W. Platt; B.Sc.(McG.), M.Sc.(Manit.), Ph.D.(Wash.) (*joint. appt. with Pediatrics*) (*Albert Boehringer 1st Chair in Pharmacoepidemiology*)

## Professors

S. Suissa; M.Sc.(McG.), Ph.D.(Flor.) (*joint appt. with Medicine*) (~~588-5016~~ *Gill Professor*)  
R. Tamblyn; M.Sc.(McM.), Ph.D.(McG.) (*joint appt. with Medicine*) (*James McGill Professor*)  
C. Wolfson; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with Medicine*)

## Associate Professors

A. Adrien; M.D., M.Sc.(McG.)  
R. Allard; B.A.(Montr.), M.D., C.M., M.Sc.(McG.)  
L. Azoulay; B.Sc.(Montr.), M.Sc.(McG.), Ph.D.(Montr.) (*joint appt. with Oncology*) (*FRQ-S CB Jr 2*) (*William Dawson Scholar*)  
O. Basso; Ph.D.(Milan) (*joint appt. with Obstetrics and Gynecology*)  
A. Benedetti; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with Medicine*) (*FRQ-S CB Jr 1*)  
J. Cox; B.Sc., B.A., M.D.(Dal.), M.Sc.(McG.), C.C.F.P., F.R.C.P.(C)  
N. Dendukuri; M.Sc.(Indian IT), Ph.D.(McG.) (PT) (*joint appt. with Medicine*)  
S. Harper; B.A.(Westminster Coll.), M.S.P.H.(S. Carolina), Ph.D.(Mich.)  
P. Héroux; B.Sc.(Laval), M.Sc., Ph.D.(I.N.R.S.)  
E.E.M. Moodie; B.A.(Winn.), M.Phil.(Camb.), Ph.D.(Wash.) (*William Dawson Scholar*)  
A. Nandi; B.S.(Coll. of New Jersey), M.P.H.(Col.), Ph.D.(Johns Hop.) (*joint appt. with Institute for Health and Social Policy*) (*Canada Research Chair*) (*on leave Sept. 2017 to Aug. 2018*)  
A. Quesnel-Vallée; B.A., M.Sc.(Montr.), M.A., Ph.D.(Duke) (*joint appt. with Sociology*) (*Canada Research Chair*)  
M. Rossignol; B.Sc., M.D.(Sher.), M.Sc.(McG.)  
A. Schmidt; B.Sc., M.Sc.(Federal Rio de Janeiro), Ph.D.(Sheff.)  
E. Strumpf; B.A.(Smith), Ph.D.(Harv.) (*joint appt. with Economics*) (*William Dawson Scholar*)  
P. Tousignant; B.A., M.D.(Laval), M.Sc.(McG.), F.R.C.P.(C) (PT)

## Assistant Professors

J. Baumgartner; B.A.(Wisc.), M.Sc.(Harv.), Ph.D.(Wisc.) (*joint appt. with Institute of Health and Social Policy*) (*CIHR New Investigator*) (*William Dawson Scholar*)  
S. Bhatnagar; B.Sc.(C'dia), M.Sc.(Qu.)  
J. Chevrier; B.Sc., M.Sc.(Laval), Ph.D.(Calif., Berk.) (*Canada Research Chair*)  
A. Daftary; B.Sc.(Manit.), M.Sc.P.H.(Col.), Ph.D.(Tor.) (f.)

## Associate Members

*Biomedical Ethics Unit:* J. Kimmelman, N. King

*Dentistry:* P. Allison, J. Feine

*Family Medicine:* A. Andermann, E. Robinson

*Geography:* N. Ross

*Human Genetics:* S. Gravel

*Human Nutrition:* N. Basu

*Internal Medicine, MUHC:* N. Dayan, M. Young

*Medicine:* J. Afilalo, F. Ahmad Kahn, A. Barkun, M. y9nl Barkun, M. y9nl Barkun/F2ee3r

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## **6.12 Family Medicine**

### **6.12.1 Location**

Department of Family Medicine  
5858 Côte-des-Neiges Road, Suite 300  
Montreal QC H3S 1Z1  
Email: [undergrad.fammed@mcgill.ca](mailto:undergrad.fammed@mcgill.ca)  
Website: [www.mcgill.ca/familymed](http://www.mcgill.ca/familymed)

### **6.12.2 Core Courses**

This Department contributes to the multidisciplinary components of the M.D.,C.M. program (Fundamentals of Medicine and Dentistry, Transition to Clinical Practice, and Core & Senior Clerkship).

INDS 124J1/INDS 124J2/INDS 124J3 – Longitudinal Family Medicine Experience

FMED 301 – TCP Family Medicine

FMED 405 – Family Medicine Clerkship

The F



## Lecturers

T.J. Clarke, V. Clermont, I. Cloutier, V. Cloutier Nguyen, M. Codsì, H.S. Cohen, M.J. Comeau, B. Connolly, K. Conrad, E. Contant, J. Copley, B. Coquet  
Le Pape, L. Cossette, J. Cournoyer, A. Couture, V. Couture, D. Craciunescu, J. Cracower, P

Website: [www.mcgill.ca/geriatrics](http://www.mcgill.ca/geriatrics)

### **6.13.2 Courses**

The following course is given by the Di

## Professors

E. Andermann; M.Sc., Ph.D., M.D.,C.M.(McG.) (*Neurology and Neurosurgery*)

B. Brais; M.D.,C.M., Ph.D.(McG.) (*Neurology and Neurosurgery*)

W. Foulkes; B.Sc., MB.BS., Ph.D.(Lond.) (*Medicine*)

B. Knoppers; Ph.D.(Paris IV), Ad.E., O.C. (*Director, Centre of Genomics and Policy*)

M. Lathrop; B.Sc., M.Sc.(Alta.), Ph.D.(Wash.) (*Director, McGill University-Genome Quebec Innovation Centre*)

D. Malo; D.U.M., M.Sc.(Montr.), Ph.D.(McG.) (*William Dawson Scholar*) (*Medicine*)

R. McInnes; C.M.,M.D., Ph.D., F.R.S.C.(McG.) (*Alva Chair in Human Genetics*) (*Director, Lady Davis Research Institute*)

R. Palmour; B.A.(Texas W.), Ph.D.(Texas) (*Psychiatry and Biology*)

D. Radzioch; M.Sc., Ph.D.(Jagiellonian, Krakow) (*Medicine*)

D.S. Rosenblatt; M.D.,C.M.(McG.) (*Medicine, Pediatrics, and Biology*)

R. Rozen; B.Sc., Ph.D.(McG.) (*Pediatrics and Biology*)

E. Schurr; M.Sc., Ph.D.(Albert-Ludwigs, Freib





**Adjunct Professors**

J. Rutberg (*Children's Hospital of Eastern Ontario*)

**Adjunct Member**

D. Vinh; M.D. (*Dept. of Medical Microbiology; Medicine*)

**Associate Members**

*Biochemistry*: P. Gros, D. Thomas

*Bioethics*: J. Kimmelman

*Cardiology*: J. Genest

*Core Molecular Diagnostic Laboratory - Cytogenetics*: J. Lavoie

*Dentistry*: L. Diatchenko

*Endocrinology*: C. Polychonakos, B. Richards

*Epidemiology, Biostatistics and Occupational Health*: C. Greenwood

*Experimental Medicine*: S. Ali, S. Richard, S-A. Rabbani

*Law*: R. Gold

*Medicine*: D. Cournoyer, J. Engert, L. Garzia, B. Gilfix, C. Gilpin, G.Hendy, R. Koenekoop, A. Peterson, F. Rauch, M. Trifiro

*Nephrology*: I. Gupta

*Neurology*: G. Rouleau, Z. Gan-Or, M. Srour

*Obs.-Gyn.*: A. Naumova

*Pediatrics*: C. Goudie, N. Jabado, L. Majewska, J. Mitchell, J. Rak

*Psychiatry*: R. Joober, G. Turecki, C. Ernst

*Surgery*: P. Roughley

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## 6.15 Medical Physics

### 6.15.1 Location

Medical Physics Unit, DS1.7141  
McGill University Health Centre – Glen Site  
Cedars Cancer Centre  
1001 Décarie Boulevard  
Montreal QC H4A 3J1  
Program enquiries: [margery.knewstubb@mcgill.ca](mailto:margery.knewstubb@mcgill.ca)  
Website: [www.mcgill.ca/medphys](http://www.mcgill.ca/medphys)

### 6.15.2 Graduate Programs

The Medical Physics Unit is a teaching and research unit concerned with the application of physics and related sciences in medicine and cancer research, especially (but not exclusively) in radiation medicine, i.e., radiation oncology, medical imaging, and nuclear medicine. The Unit offers an **M.Sc. in Medical Radiation Physics** and facilities are available for students to undertake a **Ph.D. in Physics** administered through the Department of Physics or a Ph.D. in Biological & Biomedical Engineering administered through the Department of Biomedical Engineering with a research emphasis on medical physics. These graduate courses are supervised, funded, and hosted by Medical Physics Unit PI's (principal investigators).

The research interests of members of the Unit include various aspects related to the application of physics methods to medicine:

- 3D and 4D imaging, the development of new imaging modalities, and applications of imaging in radiation therapy;
- radiation physics and computational & experimental dosimetry;
- machine learning and AI applications to medical imaging, radiation therapy and health informatics;
- applications of nano sciences to medical imaging and therapy;
- numerical modeling of fundamental interactions of radiation with living cells;

- metabolic and functional imaging using radio-nuclides and MRI;
- applications of radiation biology to therapy and radiation protection.

The M.Sc. and Ph.D. programs in Medical Physics are accredited by the *Commission on Accreditation of Medical Physics Education Programs, Inc.*, sponsored by The *American Association of Physicists in Medicine (AAPM)*, The *American Colleg*

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## 6.16 Medicine

### 6.16.1 Location

Office of the Chair:  
McGill University Health Centre (MUHC)  
1001 Décarie Blvd.  
D5 South Administrative Offices  
Montreal QC H4A 3J1  
Website: [www.mcgill.ca/deptmedicine](http://www.mcgill.ca/deptmedicine)

### 6.16.2 Core Courses

This Department contributes to all curriculum components of the M.D.,C.M. program and takes a leadership role in the following courses:

IMED 301 – TCP Internal Medicine

IMED 401 – Internal Medicine Clerkship

### 6.16.3 Graduate Courses

#### Experimental Medicine

See the Faculty of Medicine's [Graduate and Postdoctoral Studies](#) section.

### 6.16.4 Medicine Faculty

#### Chair

J. Martin

#### Emeritus Professors

E. Alpert, M. Becklake, J. Ber

### Associate Professors

I. Malcolm, T. Maniatis, S. Marcovitz, E. Matouk, S. Mayrand, T. McConnell, T.W. Meagher, S. Meltzer, S. Mishkin, J. Morais, S. Morin, D. Morris, M. Murshed, S. Nattel, M. Ndao, M. Newkirk, D. Nguyen, E. O' Brien, R. Olivenstein, G.L. Ostiguy, N. Pai, K. Pehr, A. Peterson, J. Pickering, C. Pineau, T. Podymow, J. Portnoy, R. Postuma, J. Prchal, S. Qureshi, M. Radhakrishna, E. Rahme, J.T. Ratner, M. Reed, P. Rene, J.B. Richards, S. Rinfret, J.A. Rivera Ramirez, C. Rocheleau, A. Rosenberg, S. Rousseau, M. Saleh, J. Schulz, M. Schweitzer, S.K.K. Seah, I. Sebag, G. Sebastiani, C. Seguin, M. Sewitch, A. Shamy, J.D. Shannon, R. Sheppard, M. Sherman, P. Siegel, J. Sjostrom, R. Sladek, D. Small, P. Small, M. Smilovitch, S. Solymoss, D. Stellwagen, P. Szego, V. Tagalakakis, M. Tamilya, H. Tannenbaum, G. Thanassoulis, E. Torban, P. Tousignant, G. Tsoukas, B. Turcotte, B. Unikowsky, M. Vasilevsky, J. Verdon, D. Vinh, A. Walling, M. Walker, M. Warner, K. Waschke, J. Welch, G. Wild, N. Wolkove, P. Wong, H. Zackon, A. Zidulka, J. Zidulka

### Assistant Professors

A. Abualsaud, J. Afilalo, J. Agulnik, F. Ahmad Khan, R. Aloyz, J. Angelopoulos, D. Assayag, P. Assimakopoulos, I. Azuelos, A. Baass, Y. Bacher, V. Baffis, A. Balbul, D. Banerjee, S. Beaudoin, J.P. Beaudry, M. Beique, R. Benoit, M. Bernier, A. Bessissow, T. Bessissow, M. Bielinski, L. Birnbaum, G. Blake, S. Blum, H. Blumer, R.T. Bond, M. Bonnycastle, M. Borod, N. Bottega, P. Bourgouin, I. Brukner, J. Buihieu, R. Bunea, J. Cameron, B. Campbell, W. Carey, J. Chabot, H. Chang, A. Chen-Tournoux, T. Chen, Y. Chen, W. Chiu, S. Christopoulos, B. Chrysler, P. Cleland, J. Cohen, V. Cohen, J. Cooperman, C. T. Costiniuk, V. Cyr, S. Dandona, R. Dandurand, C. Davies, K. Davison, N. Dayan, A. Demirjian, S. Dial, V. Dory, K. Doyle, S. Dube, T. Dube, R. Eappen, J. Eid, S. Eintracht, T. El-Helou, N. Ezer, S. Fallovollita, K. Filion, I. Fortier, M. Fournier, J. Fox, R. Foxford, C. Frenette, G. Friedman, R. Friedman, G. Frisch, S.H. Fung, P. Galiatsatos, N. Garfield, S. Garg, G. Genest, A. Giannakis, S. Gilman, S. Gold, G. Goldman, C. Gomez-Garibello, B. Govig, G. Gupta, G. Gyger, T. Hadjis, R. Haichin, A. Haligua, M. Hannouche, L.P. Haraoui, J. Harissi Dagher, E. Hazel, A. Hercz, V. Homier, R. Horn, D. Hornstein, J. How, X. Hu, R. Husa, G. Inglis, K. Issigonis, J. Jones, D. Joyal, J. Joza, T. Kader, F. Kalache, M. Kaminska, S. Kenick, M. Khanna, T. Kohn, M. Koolian, M. Kornbluth, D. Kostiuik, J. Krasny, M. Laliberte, A. Lalonde, D. Laporta, N. Larente, H. Laryea, C. Lauzon, K. Lawlor, P. Lebel, R. Leblanc, C. Legler, E.J. Levinoff, J. Lipes, I. Litvinov, M. Lipnowski, M.L. Luong, L. Luterman, K. Ly, A.J. Maclean,

## 6.17 Microbiology and Immunology

### 6.17.1 Location

Duff Medical Building  
3775 University Street, Room 511  
Montreal QC H3A 2B4  
Telephone: 514-398-7492  
Email: [office.microimm@mcgill.ca](mailto:office.microimm@mcgill.ca)  
Website: [www.mcgill.ca/microimm](http://www.mcgill.ca/microimm)

### 6.17.2 Core Courses

This Department contributes to the multidisciplinary curriculum components of Fundamentals of Medicine and Dentistry (FMD) and Clerkship components of the M.D.,C.M. program.

### 6.17.3 Other Courses

The Department offers a range of courses leading to the **Liberal/Majors/Honours B.Sc. in Microbiology & Immunology**, and the **Interdepartmental Honours Immunology** Program. The Department is also well-equipped for graduate research leading to the M.Sc. and Ph.D. degrees through a program that includes the multidisciplinary and trans-departmental *Microbiome and Disease Tolerance Centre* (MDTC) and access to cutting-edge research and technology. In addition, the Department offers courses that translate fundamental knowledge in Microbiology and Immunology to basic science, clinical, biotechnological, and public policy aspects of Infection and Immunity.

Please see the Faculty of Medicine's *Graduate and Postdoctoral Studies* section, and the Faculty of Science's *Undergraduate* section for more information.

### 6.17.4 Microbiology and Immunology Faculty

#### Interim Chair

G. Matlashewski

#### Emeritus Professors

N. Acheson, M. Baines, J.W. Coulton

#### Professors

J. Archambault; Ph.D.(Tor.)

A. Berghuis; M.Sc.(Rijks Univ. Groningen), Ph.D.(Br. Col.)

G.J. Matlashewski; B.Sc.(C'dia), Ph.D.(Ohio)

R.A. Murgita; B.Sc.(Maine), M.S.(Vermont), Ph.D.(McG.)

M. Olivier; B.Sc.(Montr.), Ph.D.(McG.)

C. Piccirillo; B.Sc., Ph.D.(McG.)

D. Sheppard; M.D.(Tor.)

M. Stevenson; M.Sc., Ph.D.(Catholic Univ. of Amer.)

#### Associate Professors

D.J. Briedis; B.A., M.D.(Johns Hop.)

B. Cousineau; B.Sc., M.Sc., Ph.D.(Montr.)

S. Fournier; Ph.D.(Montr.)

J. Fritz; Ph.D.(Vienna)

S. Gruenheid; B.Sc.(Br. Col.), Ph.D.(McG.)

G. T. Marczynski; B.Sc., Ph.D.(Ill.)

**Assistant Professors**

I. King; B.Sc.(Ohio St.), M.Sc.(Pitt. St.), Ph.D.(Roch.)

C. Krawczyk; Ph.D.(Tor.)

C. Maurice; M.S., Ph.D.(Montpellier II)

M. Richer; B.Sc.(McG.), M.Sc.(Montr.), Ph.D.(Br. Col.)

S. Sagan; B.Sc.(McG.), Ph.D.(Ott.)

**Associate Members**

*Epidemiology and Infectious Diseases:* M. Behr, A. Dascal, V. Loo

*Immunology, Autoimmunity, Host Defense:* J. Antel, M. Burnier, I. Colmegna, P. Gros, A. Kristof, J. Mandl, A. Orthwein, J. Rauch, M. Saleh, J. Spicer, C. Tsoukas, S. Vidal

*Immunology and Parasitology:* B. Brenner, M. Ndao, P. Rohrbach, B. Ward, J. Zhang

*Microbiology:* D. Cuong Vinh, M. Divangahi, C. Liang, D. Nguyen, M. Reed

*Molecular Biology:* N. Cermakian, S. Hussain, A. Jardim, A. Mouland, K. Pantopoulos, M. Tremblay, B. Turcotte, J. Xia

*Virology:* A. Gatignol, A.E. Koromilas, R. Lin, T. Mesplede, J. Teodoro

**Adjunct Professors**

A. Bar-Or

E. Cohen

A. Descoteaux

J.M. Di Noia

E. Emani

A. Finzi

N. Grandvaux

G. Kukulj

P. Lau

S. Lesage

S.L. Liu

J. Madrenas

R. Mouthih

C. Paradis-Bleau

A. Petronela

K. Pike

W-K. Suh

S. Tran

**6.18 Neurology and Neurosurgery****6.18.1 Location**

3801 University Street  
Montreal QC H3A 2B4  
Website: [neurology.mcgill.ca](http://neurology.mcgill.ca)

**Montreal Neurological Institute**  
3801 University Street





**Professors**

E. Andermann, J. Antel, D. Arnold, M. Avoli, S. Baillet, A. Bernasconi, C. Bourque, B. Brais, H. Chertkow, J.F. Cloutier, L. Collins, R. Côté, A. Dagher, S. David, J. Doyon, H. Durham, A. Evans, J.P. Farmer, L. Fellows, E. Fon, A. Fournier, S. Gauthier, J. Gotman, D. Guitton, E. Hamel, K. Hastings, B. Jones, T. Kennedy, A. LeBlanc, R. Leblanc, L. Levin, H. McBride, P. McPherson, B. Milner, G. Mohr, K. Murai, J. Nalbantoglu, C. Pack, M. Petrides, A. Ptito, Y. Rao, G. Rouleau, E. Ruthazer, A. Sadikot, H. Schipper, G. Sébire, P. Séguéla, M. Shevell, E. Shoubridge, W. Sossin, S. Stifani, D. Tampieri, A. Thiel, D. van Meyel, R. Zatorre

**Associate Professors**

B. Bedell, S. Bekhor, G. Bernard, J. Carlton, C. Chalk, B. Chen, E. de Villers Sidani, F. Dubeau, A. Genge, P. Giacomini, M.C. Guiot, R. Hoge, P. Kavan, D. Klein, N. Ladbon-Bernasconi, A.L. Lafontaine, Y. Lapierre, C. Melmed, J. Minuk, K. Moore, H. Paudel, K. Petrecca, R. Postuma, C. Poulin, D. Ragsdale, P. Rosa-Neto, R. Schondorf, A. Shmuel, J. Sjoström, D. Stellwagen, J. Teitelbaum, D. Trojan, L. Xiong, J. Zhang

**Assistant Professors**

R. Altman, M. Angle, G. Armstrong, J. Atkinson, B. Bernhardt, M.D.P. Cortes-Nino, R. Diaz, M.E. Dilenge, S. DiMaio, P. Dion, E. Djordjevic, R. Dudley, L. Durcan, T. Durcan, E. Ehrensperger, M. Elsabbagh, B. Frauscher, Z. Gan-Or, D. Gendron, J. Golan, B. Goulet, J. Hall, L. Healy, M.N. Hebert-Blouin, P. Huot, K. Hyde, E. Kobayashi, T. Kolivakis, L.M. Koski, A. Kostikov, J. Kovitz-Lensch, M. Laguë-Beauvais, M. Larose, M. Lechter, T.G. Leonard, B. Lo, S. Lubarsky, M. Maleki, J. Marcoux, G. Massarweh, R. Massie, A. Milnerwood, B. Mistic, F. Moore, A. Moussady, S. Narayanan, E. O'Ferrall, M. Oskoui, A. Peyrache, J.P. Poline, C. Renoux, D. Rudko, R. Saluja, C. Santaguida, A. Saveriano, M. Sidel, D. Sinclair, D. Sirhan, N. Spreng, M. Srour, T. Stroth, A. Suvrathan, V. Sziklas, C. Tardif, S. Trenholm, J. Van Raamsdonk, M. Sharp, M. Veilleux, L. Vieira, F. Wein, T. Wein, C. Xia, M. Ziller

**Lecturers**

S. Antel, D. Diorio, A. Gagnon, Y. Karam, K. Khalaf

**Associate Members**

C. Baker, C. Benkelfat, E. Bereza, V. Bohbot, D. Bowie, M. Brossard-Racine, A. Brunet, N. Cermakian, J. Chankowsky, T. Coderre, J. Crane, C. Cuello, K. Cullen, B. Debruille, R. Del Carpio, S. Ducharme, S. El Mestikawy, C. Flores-Parkman, J.P.A. Gratton, R. Gruber, R. Hess, D. Juncker, M. Kaminska, F.A. Kingdom, L. Lach, M. Lepage, M. Leyton, M. Meaney, C. Mindru, T. Muanza, K. Mullen, C. Paquette, B. Petrof, G. Plourde, J. Poirier, R. Quirion, J. Rochford, L. Srivastava, L. Stone, G. Turecki, S. Villeneuve, C.D. Walker, S. Williams, C. Wolfson, A. Zeitouni

**Adjunct Professors**

P. Barker, M. Beauchamp, E. Bell, V. Belzil, A. Buchan, F. Cendes, T.T. Dang-Vu, E. De Guise, G. DiCristo, R. DiRaddo, P. Drapeau, A.M. Edwards, A. Gjedde, B. Gomez-Mancilla, C. Grova, W.-D. Heiss, C. Kennard, C. Limperopoulos, P. Matthews, L. McKerracher, O.A. Monchi, Z. Nasreddine, T. Owens, L. Papa, I. Peretz, T. Peters, G. Pike, M. Ptito, D. Rabinovitch, E. Racine, A. Reader, M. Schoenwiesner, J.P. Soucy

**6.18.5.1 Montreal Neurological Institute Faculty****Director and Chair of the Department of Neurology and Neurosurgery**

G. Rouleau

**Neurologist-in-Chief and Associate Chair of the Department of Neurology and Neurosurgery**

A-L. Lafontaine

**Neurosurgeon-in-Chief and Associate Chair of the Department of Neurology and Neurosurgery**

K. Petrecca

**6.18.5.2 Montreal General Hospital Faculty****Neurologist-in-Chief**

C. Chalk

**Director, Neurotrauma Service**

M. Maleki

**6.18.5.3 Centre for Research in Neuroscience Faculty****Director**

K. Murai

**6.18.5.4 Montreal Children's Hospital Faculty****Director, Division of Pediatric Neurology**

G. Sébire

**Neurosurgeon-in-Chief**

J.-P. Farmer

**6.18.5.5 Jewish General Hospital Faculty****Neurologist-in-Chief**

J. Minuk

**Neurosurgeon-in-Chief**

J. Golan

---

**6.19 Obstetrics and Gynecology****6.19.1 Location**

McGill University Health Centre  
Royal Victoria Hospital – Glen Site  
Department of Obstetrics and Gynecology  
1001 Decarie Boulevard  
Montreal QC H4A 3J1  
Website: [www.mcgill.ca/obgyn](http://www.mcgill.ca/obgyn)

**6.19.2 Core Courses**

This Department contributes to all curriculum components of the M.D.,C.M. program.

OBGY 401 – Obstetrics and Gynecology Clerkship

**6.19.3 Electives**

The Department provides several electives for medical students. See the [Elective Program](#) for elective opportunities.

**6.19.4 Obstetrics and Gynecology Faculty****Chair**

Togas Tulandi

**Professors**

H. Clarke, A. Ferenczy, R. Gagnon, L. Gilbert, W. Gotlieb (*joint appt. with Oncology*), A. Papageorgiou (*joint appt. with Pediatrics*), B. Robaire (*joint appt. with Pharmacology and Therapeutics*), S.L. Tan, T. Tulandi

**Associate Professors**

H. Abenhaim, A. Ao, J. Arseneau (*joint appt. with Pathology*), O. Basso,

**Associate Professors**

T. Alcindor, J. Asselah, S. Assouline, L. Azoulay, M. Basik, S. Caplan, P. Chaudhury, D. Cournoyer, S.L. Faria, M. Hier, I. Hings, N. Johnson, M. Katz, P. Kavan, P. Laneuville, A. Langleben, B. Lapointe, A.S. Liberman, A. Loutfi, K. Mann, M. Martin, L. McCaffrey, A. Meguerditchian, A. Peterson, J. Prchal, R. Rajan, Z. Rosberger, G. Shenouda, S. Solymoss, A. Towers, J. Ursini-Siegel, A. Vigano, M. Witcher, J.H. Wu, J. Zidulka

**Assistant Professors**

S. Abbasi Nejad Enger, S. Abish, J. Agulnik, J. Alfieri, R. Aloyz, S. D. Anderson, Aubin, M. Azoulay, B. Bahoric, G. Blake, M. Borod, N. Bouganin, J. Burnier, V. Cohen, F. Cury, R. Dalfen, M. David, J.A. Davidson, S. del Rincon, A. Derossis, S. Devic, M. Duclos, M. Evans, M. Fabian, C. Ferrario, M. Henry, T. Hijal, M. Hobson, A. Jahani-Asl, K. Jardon, J. Kildea, N. Kopek, C. Lambert, H. Laryea, S. Lau, M. Lecavalier-Barsoum, C. Legler, I. Levesque, D. Melnychuk, C. Mihalciou, E. J. Mitmaker, T. Muanza, S. Néron, M.T. Niazi, A. Orthwein, S. Owen, V. Panet-Raymond, W. Parker, F. Patenaude, H. Patrocino, C. Pepe, M. Popovic, S. Sirhan, S. Skamene, B. Stein, D. Stern, G. Stroian, K. Sultanem, I. Topisirovic, F Tremblay, M. Vanhuysse, T. Vanounou, C.A. Vasilevsky, S. Weichenthal, N. Ybarra

**Lecturers**

R. Archambault, A. Carbonneau, P. Charghi, S. Ferland, D. Frechette, G. Huni, A. Khadoury, C. MacKinnon, E. Neamt

**Associate Members**

P. Allison, J. Arseneau, G. Bartlett-Esquillant, H. Bergman, J-F. Boileau, M. Burnier, S. Chevalier, B. Deschamps, N. Eliopoulos, J-P. Farmer, J. Feine, D. Fleiszer, P. Galiatsatos, Z-H. Gao, D. Ginsberg, M. Goldberg, P. Gros, N. Jabado, T. Jagoe, S. Jordan, A.C. Korner, K. Lawlor, K. Looper, M.E. Macdonald, C. Maheu, R. Michel, A. Mlynarek, J.L. Montes, B. Nicolau, L. Ofiara, M. Paliouras, R. Payne, K. Petrecca, S. Rabbani, J. Rak, U. Saragovi, M. Sebag, P. Siegel, R. Tabah, S. Tanguay, D. Thomson, P. Tonin, G. Tradounsky, A. Tsimicalis, R. Turcotte, D. Wan-Chow-Wah, B. Wang

**Adjunct Professors**

R-K. Agnihotram, A.E. Al Moustafa, N. Blais, A. Burchell, M. Chasen, F. Coutlee, I. Dumont, G. El-Baalbaki, I. El Naqa, B. Gagnon, M. Hassanain, S. Mahmud, A.G. Martin, M-H. Mayrand, B. Mofteh, G.B. Pike, S. Ratnam, D. Roberge, V. Sandor, A. Sarfehnia, T. Sullivan, A. Syme, J. Tota, H. Trottier

**6.21 Ophthalmology****6.21.1 Location**

5252 de Maisonneuve Boulevard West, 4th Floor  
Montreal QC H4A 3S5  
Website: [www.mcgill.ca/ophthalmology](http://www.mcgill.ca/ophthalmology)

**6.21.2 Core Courses**

OPHT 300 – TCP Ophthalmology

The Department of Ophthalmology gives sessions with particular emphasis on history-taking, diagnosis, and treatment of common eye problems, as well as instruction on how to use the ophthalmoscope and slit lamp microscope.

**6.21.3 Electives**

Electives are offered to Clerkship students at the Montreal General, Royal Victoria, Jewish General, and Montreal Children's Hospitals. Each student functions as a clinical clerk in the respective Eye Department. See the [Elective Program](#) for elective opportunities.

**6.21.4 Ophthalmology Faculty****Chair**

L. Levin

**Professors**

C. Baker, M.N. Burnier Jr., J. Deschenes, R.F. Hess, P. Lachapelle, F. Kingdom, L. Levin, K. Mullen

**Associate Professors**

P. Archambault, B. Arthurs, J. Chen, W.E.S. Connolly, C. Edelstein, M. Flanders, M. Gans, J.E.S. Gomolin, M. Kapusta, O. Kasner, A. Khan, R. Koenekoop, S. Lindley, J.M. Little, J. Mendola, O. Overbury, R. Polomeno, J. Rosen, N.E. Saheb, L. Solomon

**Assistant Professors**

D. Albert, R. Beneish, S. Callejo, J.P. Chartrand, D. Cheema, S. Cohen, M. Discepola, H. El-Saheb, R. Farivar, S. Fichman, J. Galic, A. Hafez, C. Kavalec, M. Mydlarski, M. Quigley, B. Silver, D. Toffoli, J.B. Waldron, A. Wallerstein, F. Wein, J. Wise

**Lecturers**

C. Ares, A. Coffey, S. Friedman, B. Kattleman, D. Kraus, H. Mihalovits, K. Nasr, K. Oliver, L. Robidas, D. Silver, C.R. Staudenmaier, E.D. Svarc

**6.22 Otolaryngology – Head and Neck Surgery****6.22.1 Location**

McGill University Health Centre – Glen Site  
1001 Décarie Blvd, Room D05.5711  
Montreal QC H4A 3J1  
Telephone: 514-843-2820  
Fax: 514-843-1403  
Website: [www.mcgill.ca/ent](http://www.mcgill.ca/ent)

**6.22.2 Core Courses**

This Department contributes to the multidisciplinary curriculum components of Fundamentals of Medicine and Dentistry (FMD), Transition to Clinical Practice (TCP), and Core Clerkship of the M.D.,C.M. program. Through a systematic approach of lectures and small group sessions, students will actively learn the principal diseases of the head and neck region (including the ears and nose), including the etiology, pathogenesis, presentation and management.

**6.22.3 Electives**

The Department also offers two- to four-week electives for students at the following three affiliated teaching hospitals: Royal Victoria Hospital and the Montreal Children's Hospital, both located at the Glen site, as well as the Jewish General Hospital. During these electives, students will learn the history-taking, physical examination of common disorders of the head and neck in an objective and structured fashion. Students will become part of the surgical team and be involved in the workup and management of their patients. See the [Elective Program](#) for elective opportunities.

**6.22.4 Graduate Courses**

See the Faculty of Medicine's [Graduate and Postdoctoral Studies](#) section.

**6.22.5 Otolaryngology – Head and Neck Surgery Faculty****Chair**

N. Sadeghi

**Graduate Program Director and Director of Research**

B. Segal

**Director of Residency Training Program**

K. Richardson

**Director of Head and Neck Oncology Program**

N. Sadeghi

**Director of Undergraduate Medical Education**

J. Young

**Director of Fellowship Training**

J. Rappaport

**Emeritus Professor**

**Professors**

S. Daniel; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)

S. Frenkiel; B.Sc., M.D.,C.M.(McG.), F.R.C.S.(C)

A. Katsarkas; M.D.(Thess.), M.Sc.(Otol.)(McG.), F.R.C.S.(C)

W.R.J. Funnell; B.Eng., M.Eng., Ph.D.(McG.)

M. Hier; M.D.,C.M.(McG.), F.R.C.S.(C)

J. Manoukian; M.B., Ch.B.(Alex.), F.R.C.S.(C)

L. HP. Nguyen; M.D.,C.M.(McG.), m(ost; M.D.,C.M.(McG.), F)Tj1 0 0 1 0 0 h 0 0 1xpn(.R.C.S.(C))Tj1 0 0 1 70.52 2330.2 Tm(W)Tj1 0 0 1 77.422 2330.2 Tm.H(ilo

ALehmannel; B.S(Franche-Comtrsrss.), M.EnM.INES P FTrsC)

J)McG.), F

**Associate Members**

K. E. Cullen; Ph.D.(McG.)  
 H.L. Galiana; B.Eng., M.Eng., Ph.D.(McG.)  
 Q. Hamid; M.D.(Iraq), Ph.D.Med.(Lond.)  
 M. Henry; Ph.D.(UQAM)  
 N.Y.K. Li; B.Sc.(HK), M.Phil.(HK)  
 L. Mongeau; B.Sc., M.Sc.(Montr.), Ph.D.(Penn. St.)  
 M. Paliouras; B.Sc.(Hons.), M.S., Ph.D.  
 M. Sewitch; Ph.D.

**Lecturers**

C. Boucher; M.D.  
 R. Caouette; M.D.  
 A. Finesilver; M.D.,C.M.(McG.), F.R.C.S.(C)  
 O. Houle; M.D.  
 V. Iordanescu; M.D.  
 L. Monette; M.D.  
 J. Rothstein; M.D.,C.M.(McG.), F.R.C.S.(C)  
 R. Varshney; M.D., C.M., M.Sc., F.R.C.S.(C)  
 R. Ywakim; M.D., F.R.C.S.(C)

**Adjunct Professors**

L. Picard; M.D.(Montr.), F.R.C.S.(C)

**6.23 Pathology****6.23.1 Location****UGME Contact Information**

Dr. René Michel  
 MUHC – Glen Site  
 1001 Décarie Blvd., Rm. E04.4156  
 Montreal QC H4A 3J1  
 Telephone: 514-934-1934, ext. 38779  
 Fax: 514-934-8296  
 Email: [rene.michel@mcgill.ca](mailto:rene.michel@mcgill.ca)

**Science Undergraduate Education**

Prof. Edith Zorychta  
 Duff Medical Building  
 3775 University Street  
 Montreal QC H3A 2B4  
 Telephone: 514-398-7125  
 Email: [edith.zorychta@mcgill.ca](mailto:edith.zorychta@mcgill.ca)  
 Website: [www.mcgill.ca/pathology](http://www.mcgill.ca/pathology)





**Associate Professors**

R. Onerheim; M.D.(Alta.), F.R.C.P.(C)  
 M. Pelmus; M.D., Ph.D.(Carol Davila, Bucharest)  
 L. Rochon; M.D.(Sher.), F.R.C.P.(C)  
 I. Roy; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)  
 A.K. Watters; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)  
 E. Zorychta; B.Sc.(St. FX), M.Sc., Ph.D.(McG.)

**Assistant Professors**

O.E. Ajise; M.D., F.C.A.P., F.R.C.P.(C)  
 M. Alameldin; M.D.(Alexandria), F.R.C.P.(C)  
 S. Albrecht; M.D.(Sher.), F.R.C.P.(C)  
 O. Aleynikova; M.D.(Dal.), F.R.C.P.(C)  
 R. Amre; M.B.B.S.(KIMS), F.R.C.P.(C)  
 K. Bakdounes; M.D.(Damascus), F.R.C.P.(C)  
 M. Blumenkrantz; M.D.,C.M.(McG.), F.R.C.P.(C)  
 G.D. Brandao; M.D.(UFJF)  
 J Burnier; Ph.D.(McG.)  
 D. Caglar; M.D.(Gazi)  
 J. Chepovetsky; M.D.(Mount Sinai Sch. of Medicine, New York)  
 A. Florea; M.D.(Iuliu Ha ieganu)  
 L. Fu; M.D.,C.M.(McG.), M.Sc.(McG.), F.R.C.P.(C)  
 A. Gologan; M.D.(Carol Davila, Bucharest)  
 A. Gregorieff; B.Sc.(Laval), M.Sc.(McG.), Ph.D.(Utrecht)  
 S.-M. Jung; M.D.(Chonnam Nat.)  
 Y. Kanber; M.D.(Marmara)  
 J. Karamchandani; M.D.(Stan.)  
 J. Lavoie; B.Sc., M.Sc., Ph.D.(Laval)  
 H.R. Lopez-Valle; M.D.(Univ. Autonoma, San Luis Potosi)  
 A.T. Marcus; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)  
 V.-H. Nguyen; M.D.(Montr.), F.R.C.P.(C)  
 A. Omeroglu; M.D.(Istanbul)  
 G. Omeroglu-Altinel; M.D.(Istanbul)  
 F. Razaghi; M.D.(Beheshti Univ. Medical Sciences, Tehran)  
 S. Sabri; Ph.D.(Paris VII)  
 S. Sandhu; M.B.,B.S.(N. Bengal Medical Coll.)  
 J. St. Cyr; M.D.,C.M.(McG.), F.R.C.P.(C)  
 H. Wang; M.D.(China), F.R.C.P.(C)

**Associate Members**

B. S. Abdulkarim; M.D., Ph.D.(Paris), F.R.C.P.(C)  
 C.J. Baglolle; M.Sc.(PEI), Ph.D.(Calg.)  
 P.J. Chauvin; M.Sc.(W.Ont.), D.D.S.(McG.)  
 M. Divangahi; Ph.D.(McG.)

## Associate Members

S.N.A. Hussain; M.D.(Baghdad), Ph.D.(McG.)  
G.O.R. Arena; M.D., Chir.Vasc.(Catania), F.R.C.S.(C)  
N. Jabado; M.D.(Paris VI), Ph.D.(INSERM, Paris)  
W. Kassouf; M.D.,C.M.(McG.), F.R.C.S.(C)  
P. Metrakos; M.D.,C.M.(McG.), F.R.C.S.(C)  
V. Papadopoulos; Ph.D.(Paris VI)  
M. Park; Ph.D.(Glasgow), F.R.S.C.  
A. Schwertani; M.D.,C.M., Ph.D.(Lond.)

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## 6.24 Pediatrics

### 6.24.1 Location

McGill University Health Centre – Glen Site  
1001 Décarie Boulevard, B.RC.6358.1  
Montreal QC H4A 3J1  
Website: [www.mcgill.ca/peds](http://www.mcgill.ca/peds)

### 6.24.2 Core Courses

This Department contributes to all curriculum components of the M.D.,C.M. program.

PAED 301 – TCP Pediatrics

PAED 401 – Pediatrics Clerkship

### 6.24.3 Electives

The Department provides several electives for medical students. See the [Elective Program](#) for elective opportunities.

### 6.24.4 Pediatrics Faculty

#### Chair

M. Shevell

#### Emeritus Professors

F. Andermann, M. Belmonte, R. Brouillette, V. Der Kaloustian, K. Drummond, H. Guyda, F. Kaplan, I.B. Pless, C. Scriver, G. Tannenbaum, H. Tenenhouse, G. Watters

#### Professors

F. Bhanji, C. Freeman, P. Goodyer, R. Gottesman, L. Hechtman, N. Jabado, M. Kramer, L. Lands, S. Liben, B. Mazer, A. Papageorgiou, R. Platt, C. Polychronakos, P. Puligandla, J. Rak, F. Rauch, S. Razack, D. Rosenblatt, R. Rozen, E. Seidman, S. Shemie, M. Shevell, G. Sébire, J. Trasler, D. Withington

#### Associate Professors

R. Alizadehfar, L. Auger, F. Baltzer, I. Bank, M-J. Béland, L. Bell, M. Ben-Shoshan, G. Bernard, M. Bitzan, N. Braverman, D. Chalut, L. Chauvin-Kimoff, G. Chedeville, E. Constantin, A. Côté, A. Dancea, G. Di Meglio, G. Dougherty, A. Dubrovsky, D. Faucher, B. Foster, T.E. Francoeur, C. Goodyer, R. Gosselin, I. Gupta, R. Haber, L. Kovacs, P. Krisnamoorthy, C. Leblanc, D.G. Leduc, A.-M. MacLellan, L. Majewska, C. McCusker, J. McDonald, J. Mitchell, D. Moore, V. Morinville, D. Munz, F. Noya, M. Oskoui, H. Patel, G. Pেকেles, T. Perreault, L. Plotnick, C. Poulin, J. Rennick, C. Rohlicek, B. Rosenblatt, E. Rubin, L. Russell, A. Ryan,

**Assistant Professors**

S. Abish, H. Agostino, N. Ahmed, G. Ahronheim, G. Altit, R. Barnes, J. Bartholomew, L. Beaumier, M. Beltempo, M. Berry, V. Bizgu, S. Blachman, M. Boutin, A. Bretholz, A. Brody, H. Bui, B. Burko, B. Burstein, S. Campillo, A.-M. Canakis, L. Cartier-Borys, M. Cavalle-Garrido, E. Couture, C. Cummings, A. Dadoun, M. Dandavino, A. Daoud, N. Dauletbayev, M. Decell, M. Desjardins, T. Di Genova, D. Diksic, M.-E. Dilenge, H. Eisman, K. Eppert, J. Erdstein, J.-M. Ferdinand, G. Ficara, G. Filion, P. Fontela, S. Forget, D. Friedman, S. Rodrigues Furtado, T. Gafoor, S. Ghosh, C. Goudie, A. Gorgos, A.-M. Gosselin, A.-M. Goyette, I. Greenstone, E. Hailu, F. Halal, P. Hedrei, C. Henin, S. Hussain, F. Jafarian, G. Julien, L. Jutras, E. Soos Kapusy, C. Karatzios, M. Khairy, E. Khalil, L. Koclas, L. Kopel, N. Korah, R. Lalonde, M.-A. Léfèbvre, G. Legault, L. Legault, C. Lejtenyi, D. Lévesque, P. Li, A. Lovett, S. MacDonald, R. Mandel, G. Mandich, D. Martens, E. Medoff, B. Miedzybrodzki, C. Millar, D. Mitchell, G. Morantz, J. Morel, K. Myers, M. Nakhla, K.-A. Nguyen, C. Nolin, N. Nouraeyan, F. Olivier, J. Ortenberg, C. Ouellet, N. Ouellette, N. Paice, J. Papenburg, R. Paquin, E. Pelausa, M. Pépin, C. Phi, H. Porras, R. Primavesi, D. Rabin, M. Ramsay, S. Rawal, C. Renaud, H. Rich, E. Ruano Cea, C. Sabapathy, K. Saylor, A.M. Sbrocchi, J. Séguin, W. Shalish, A. Shapiro, M. Shiller, K. Sigman, T. Sigman, E. Simard-Tremblay, M. Srour, J. Stankova, N. Stein, R. Sternszus, J. Stewart, A. Suvrathan, S. Treherne, O. Tse, J. Turnbull, S. Vaillancourt, C. Vézina, J. Von Ottingen, S. Waterson, D. Waxman, S. Woods, J. Yaremko, S. Zavalkoff

**Lecturers**

M. Allard, N. Audet, S. Bergeron, E. Chétrit, K. Clément, Y. Couture, M. Donlan, H. Fortin, S. Freeman, C. Gagné, T. Giannone, J. Hortop, S. Hotte, S. Jeanty, D. Kimia, D. King, A. Kukhta, A. Lafontaine, M.H. Landreville, J. Lavigne, P. Lawandi, D. Leduc, J. Lemonde, D. Loyer, S. Malaab, P. Marin, A. O'Gorman, A. Perello, M.-N. Primeau, S. Quansah, P. Rossy, K. Samaan, L. Samotis, E. Shahin, B. Zylbergold

**Associate Members**

M. Brossard-Racine, F. Carnevale, D. Collin-Vézina, S. Emil, I. Gagon, L. Lach, M.E. Macdonald, A. Majnemer, M. Malus, K. Maurer, R. Russell, D.K.S. Thomas

**Adjunct Professors**

A. Barbier, F. Dallaire, N. Graves, T. Lahiri, C. Larson, C. O'Beirne, V. Scholten, L.M. Segal, J. St-Pierre, M. Zappitelli

**6.25 Pharmacology and Therapeutics****6.25.1 Location**

McIntyre Medical Sciences Building  
3655 Promenade Sir-William-Osler, Room 1325  
Montreal QC H3G 1Y6  
Telephone: 514-398-3623  
Website: [www.mcgill.ca/pharma](http://www.mcgill.ca/pharma)

**6.25.2 About the Department of Pharmacology and Therapeutics**

The program of instruction in Pharmacology and Therapeutics is designed to provide a systematic coverage of the principles of drug action for the main classes of drugs, the factors that control and modify their effects, and the basis for selection and use of specific drugs in the treatment of disease.

**6.25.3 Core Courses**

This Department contributes to all curriculum components of the M.D.,C.M. program. Information on the curriculum can be found at [www.mcgill.ca/ugme/mdcm-curriculum-joint-programs](http://www.mcgill.ca/ugme/mdcm-curriculum-joint-programs).

**6.25.4 Other Courses**

The Department offers a range of different level courses on the principles of pharmacology and therapeutics with emphasis on the sites and mechanisms of action of drugs from whole body to molecular interactions. The compounds covered are representative of classes of drugs used in the treatment of human disease. These courses are available to students registered in the B.Sc. programs. The Department also offers a graduate program leading to the M.Sc. and Ph.D. degrees.

Please see the Faculty of Medicine's *Graduate and Postdoctoral Studies* section and the Faculty of Science's *Undergraduate* section for more information.

**6.25.5 Pharmacology and Therapeutics Faculty****Chair**

G. Multhaup

**Emeritus Professors**

R. Capek, H.H. Zingg

**Professors**

D. Bernard, D. Bowie, P.B.S. Clarke, A.C. Cuello, B. Hales, T. Hébert, D. Maysinger, A. McKinney, G. Multhaup, A. Ribeiro-da-Silva, B. Robaire, H.U. Saragovi, M. Szyf, J. Trasler

**Associate Professors**

J. Tanny

**Assistant Professors**

B. Castagner, M. McKeague, L. Münter, J.F. Trempe

**Associate Members**

M. Alaoui-Jamali, C. Baglole, L. Diatchenko, S. Gauthier, T. Geary, B. Jean-Claude, B. Kieffer, S. Kimmins, S. Laporte, N. Nattel, C. O'Flaherty, P. Rosa-Neto, S. Rousseau, L. Stone, M. W

Please see the Faculty of Medicine's [Graduate and Postdoctoral Studies](#) section, and the Faculty of Science's [Undergraduate](#) section for more information.

### 6.26.3 Physiology Faculty

#### Chair

John White

#### Graduate Program Director

Alvin Shrier

#### Emeritus Professors

Thomas M.S. Chang; B.Sc., M.D.,C.M., Ph.D.(McG.), F.R.C.P.(C)

Kresimir Krnjevic; O.C., B.Sc., Ph.D., M.B., Ch.B.(Edin.), F.R.S.C.

Wayne S. Lapp; M.S.A.(Tor.), Ph.D.(McG.)

Mortimer Levy; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C) (*joint appt with Medicine*)

George Mandl; B.Sc.(C'dia); Ph.D.(McG.)

Michael Mackey; B.A., Ph.D.(Wash.) (*Joseph Morley Professor of Physiology*)

Geoffrey Melvill Jones; B.A., M.A., M.B., B.Ch., M.D.(Cant.)

Joseph Milic-Emili; M.D.(Milan) (*joint appt with Medicine*)

Canio Polosa; M.D., Ph.D.(McG.)

Douglas G.D. Watt; M.D., Ph.D.(McG.)

#### Professors

Maurice Chacron; Ph.D.(Ott.)

Monroe W. Cohen; B.Sc., Ph.D.(McG.)

Ellis J. Cooper; B.Eng.(Sir G. Wms.), M.Sc.(Surr.), Ph.D.(McM.)

Leon Glass; B.S.(Brooklyn), Ph.D.(Chic.) (*Rosenfeld Professor of Medicine*) (*joint appt. with Medicine*)

Phil Gold; C.C., B.Sc., M.Sc., Ph.D., M.D.,C.M.(McG.), F.R.C.P.(C), F.R.S.C. (*Douglas G. Cameron Professor of Medicine*) (*joint appt. with Medicine*)

John Hanrahan; Ph.D.(Br. Col.)

David Goltzman; B.Sc., M.D.,C.M.(McG.) (*Antoine G. Massabki Professor of Medicine*) (*joint appt. with Medicine*)

Gergely Lukacs; M.D., Ph.D.(Budapest)

Sheldon Magder; M.D.(Tor.) (*joint appt. with Medicine*)

Jacopo P. Mortola; M.D.(Milan)

John Orlowski; B.Sc.(McG.), M.Sc., Ph.D.(Qu.) (*James McGill Professor*)

Premysl Ponka; M.D., Ph.D.(Prague) (*joint appt. with Medicine*)

Alvin Shrier; B.Sc.(C'dia), Ph.D.(Dal.) (*Hosmer Professor of Physiology*)

John White; B.Sc., M.Sc.(Car.), Ph.D.(Harv.) (*joint appt. with Medicine*)

#### Associate Professors

Erik Cook; Ph.D.(Baylor Coll., Tx)

Mladen Glavinovic; B.Sc.(Zagreb), M.Sc.(Tor.), Ph.D.(McG.)

Michael Guevara; Ph.D.(McG.)

Russell Jones; Ph.D.(Tor.)

Ursula Stochaj; Ph.D.(Cologne)

#### Associate Professor (Part-time)

Nicole Bernard; B.Sc.(McG.), Ph.D.(Duke)

## Assistant Professors

Claire Brown; B.Sc.(St. Mary's), Ph.D.(W. Ont.)

Gil Bub; B.Sc., Ph.D(McG.)

Anmar Khadra; B.Sc.(C'dia), M.Sc., Ph.D.(Wat.)

Connie Krawczyk; B.Sc.(Guelph), Ph.D.(Tor.) (*joint appt. with Microbiology & Immunolo*







## Associate Professors

F. Elgar; M.Sc.(Nfld.), Ph.D.(Dal.)

P. Étienne; M.D.(Liege)

C. Fichten; B.Sc.(McG.), M.Sc.(C' dia), Ph.D.(McG.)

D. Frank; Dip.Psychol., M.D.,C.M.(McG.)

R. I. Fraser; M.D.(Dal.)

G. Galbaud du Fort; M.D., Ph.D.(Paris) (*joint appt. with Epidemiology and Biostatistics*)

K.G. Gill; B.Sc.(Br. Col.), M.A (



## Assistant Professors

M.E. Davis; Dip.Psychol., M.D.,C.M.(McG.)

P. Des Rosiers; M.D.(Sher.)

R. Desautels; B.Sc., M.D.,C.M.(McG.)

J. Desmarais; M.D.,C.M.(McG.)

M. Di Tomasso; M.D.(McG.)

J. Dornik; M.D.(McG.)

S. Ducharme; M.D.(Montr.)

H. Dymetryszyn; Ph.D.

M. Elie; B.Sc., M.D.,C.M.(McG.)

C.P. Ernst; B.Sc.(McG.), M.Sc.(Br. Col.), Ph.D.(McG.)

J. Errunza; M.D.(McG.)

K. Faridi; M.D.(Calg.)

K. Fathalli; M.D.(Tunis)

A. Fielding; M.D.,C.M.(McG.)

E. Foley; B.Sc.(Tor.)

J. Friedland; M.D.(Calg.)

G. Gagnon

M. Gauthier; M.D.,C.M.(Montr.)

K. Geagea; M.D.,C.M.(SJU)

M.-C. Geof

**Assistant Professors**

L. Laporte; B.A.(McG.), M.Psychol., Ph.D.(Montr.)  
M. Larose; M.D.(Laval)  
M. Lashley; Ph.D.(McG.)  
J.D. Leccia; M.D.(Provence Aix-Marseille)  
E. Levy; Gr.Dip.Psychiat.(McG.), M.Ed.(Sher.)  
E. Libman; B.A., M.Sc., Ph.D.(McG.)  
E. Lizondo; M.D.,C.M.(Nat. Univ. Central Buenos Aires)  
G.L. Low; B.A.(Qu.), Dip.Psychol.(McG.), M.D.,C.M.(Ott.)  
N.C.P. Low; M.D., M.Sc.(McG.)  
W. Ma; M.D., M.Sc.(Tongji), Ph.D.(McG.)  
S. K. Margolese; Ph.D.  
R. Martins; Ph.D.(Montr.)  
N. Masrouha; M.D.(Sher.)  
T. Measham; B.Sc., M.D.(McG.)  
X. Meng; Ph.D.  
M. Messier; B.A.(Montr.), M.B.A.(HEC)  
G. Meterissian; Gr.Dip.Psychiat.(McG.), M.D.,C.M.(Montr.)  
T.M. Milroy; B.Sc., M.D.,C.M.(Md.), Gr. Dip. Psychiat.(McG.)  
M. Miresco; M.D.,C.M.(McG.)  
F. Nazlie; M.D.  
J.P. Near; Ph.D.(W. Ont.)  
T. V. Nguyen; M.D.  
K. O'Donnell; Ph.D.(Imp. Coll. Lon.)  
J.A. O'Neil; B.A.(C'dia), Dip.Psychol., M.D.,C.M.(McG.)  
M.A. Ouimet; D.M.D.(Sher.), Gr.Dip.Psychiat.(McG.)  
M. Piat; Ph.D.(Laval)  
L. Pinard; M.D.(Montr.), F.R.C.P.(C)  
Z. Prelevic; Dip.Psychol.(McG.), M.D.,C.M.(Belgrade)  
A. Propst; M.D.  
M. Rabinovitch; B.Sc., M.D.,C.M.(McG.)  
S. Rej; M.D., M.Sc.(McG.)  
S.B. Rosenbloom; B.A.(C'dia), M.A.(York)  
C. Roy; B.Sc.(McG.), M.D.,C.M.(Dal.)  
J. Russell; Ph.D.(McG.)  
T. Said; B.Sc.(McG.), M.D.,C.M.(Sher.)  
H. Schwartz; M.D.(McG.)  
M. Segal; B.A.(C'dia), B.Sc.(O.T.)(McG.), M.D.,C.M.(Ott.)  
J. Seguin; B.A., B.Sc., M.D.,C.M.(Ott.)  
T. Semeniuk; B.Sc., M.Ed., M.D.,C.M.(Alta.)  
J. Shah; M.Sc.(Lond.), M.D.(Tor.)  
O. Sidhom; M.D.  
M. Sigman; B.A.(McG.), M.A., Ph.D.(C'dia)

**Assistant Professors**

P.P. Silveira; M.D., Ph.D.

## 6.28 Rosalind and Morris Goodman Cancer Research Centre

### The Rosalind and Morris Goodman Cancer Research Centre

1160 Pine Avenue West, Room 602  
Montreal QC H3A 1A3  
Telephone: 514-398-3535  
Website: [www.mcgillgcr.com](http://www.mcgillgcr.com)

The Rosalind and Morris Goodman Cancer Research Centre (GCRC) conducts internationally recognized fundamental and translational research in all areas of cancer. These research activities contribute to:

1. improving the molecular understanding of cancer;
2. improving disease management;
3. training the next generation of cancer researchers; and
4. conveying the importance of cancer research to the community.

The fundamental research approach adopted by the Centre is focused on better understanding the mechanisms involved in cancer initiation and progression and the pressing need to identify targets for clinical drug development. The research model involves identifying priority themes and establishing a critical mass of expertise within each theme. These themes include Breast Cancer, Metabolism and Cancer, Stem Cells and Signaling, DNA Damage Response, and Embryonic Development and Cancer.

The GCRC has adopted a proactive and innovative approach to training the next generation of cancer researchers. In conjunction with the *Experimental Medicine* graduate program, the GCRC has implemented a specialized program, which is called the “Oncology Stream”. This program was conceived to give trainees the opportunity to acquire an integrated and broader perspective of basic and clinical research as it relates to cancer. Among other cancer-related courses, the students take a mandatory course: EXMD 635D1/EXMD 635D2 – Experimental/Clinical Oncology. This comprehensive course was created to expose trainees to a spectrum of different cancers, with topics ranging from diagnosis to current treatment and future drug development.

### 6.28.1 Rosalind and Morris Goodman Cancer Research Centre Faculty

#### Professor and Director

M. Park

#### Full Members

N. Beauchemin, M. Bouchard, T. Duchaine, A. Fuks, I. Gallouzi, V. Giguère, P. Gros, S. Huang, R. Jones, L. Kazak, L. McCaffrey, W. Muller, A. Nepveu, M. Park, A. Pause, J. Pelletier, D. Quail, P. Siegel, N. Sonenberg, J. Teodoro, M. Tremblay, L. Walsh, I. Watson, Y. Yamanaka, X.-J. Yang, G. Zogopoulos

#### Associate Members

U.D. Akavia, M. Alaoui-Jamali, P. Brodt, D. Dankort, J. Dostie, A. Ehrlicher, L. Ferri, J. Fritz, L. Garzia, N. Jabado, D. Junker, A. Koromilas, C. Krawczyk, D. Labbé, N. Lamarche, P. Lasko, C. Loiselle, C. Moraes, M. Pollak, J. Rak, Y. Riazalhosseini, M. Richer, H. Shateri Najafabadi, J. Spicer, P. Tonin, G. Ursini-Siegel

#### Affiliate Member

R. Marcotte

#### Emeritus Professors

P. Branton, A. Fuks, G. Shore, C.P. Stanners, M. Zannis-Hadjopoulos

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## 6.29 Social Studies of Medicine

### 6.29.1 Location

3647 Peel Street, Room 103  
Montreal QC H3A 1X1  
Telephone: 514-398-6033  
Website: [www.mcgill.ca/ssom](http://www.mcgill.ca/ssom)

### 6.29.2 Core Courses

This Department contributes to the multidisciplinary core content offered during the Fundamentals of Medicine and Dentistry (FMD), Transition to Clinical Practice (TCP), and Clerkship components of the M.D.,C.M. program. More specifically:

INDS 426 – Putting It All Together: Basic Science, Medicine and Society

### 6.29.3 Electives

The Department offers a wide range of electives in aspects of the social sciences and humanities as they relate to medicine. See the [Electives Program](#) for elective opportunities.

### 6.29.4 Graduate Program

Through the Department, graduate students can obtain one of the following:

- M.A. in the History of Medicine
- M.A. in Medical Anthropology
- M.A. in Medical Sociology

The above de

Montreal QC H4A 3J1  
Email: [ugradsurgery.med@mcgill.ca](mailto:ugradsurgery.med@mcgill.ca)  
Website: [www.medicine.mcgill.ca/surgery](http://www.medicine.mcgill.ca/surgery)

### 6.30.2 Core Courses

This Department contributes to all curriculum components of the M.D.,C.M. program.

SURG 301 – TCP Surgery

SURG 402 – Surgery Clerkship

### 6.30.3 Electives

The Department provides several electives for medical students. See the [Elective Program](#) for elective opportunities.

### 6.30.4 Surgery Faculty

#### Chair

G.M. Fried (*Edward W. Archibald Professor*)

#### Emeritus Professors

J.D. Bobyne

F. Cervero

M. Duhaime

J. Hinchey

E. Monaghan

A.R. Poole

P. Roughley

N. Sheiner

H. Shizgal

H. Sigman

#### Professors

J. Antoniou

A.G. Aprikian

J.S. Barkun

J. Barralet

F. Bladou

P. Brodt

S. Carrier

P. Chan

S. Chevalier

J. Corcos

M. Elhilali



## Professors

E.J. Harvey

W. Kassouf

J.-M. Laberge

R.G. Margolese (*Herbert Black Professor of Surgical Oncology*)

S.H. Meterissian

P.M. Metrakos

D.S. Mulder (*H. Rocke Robertson Professor of Surg*)

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## 7 Scholarships, Bursaries, Loans, Prizes, and Medals

In order to enrich the learning experience for students, the Faculty of Medicine offers both needs- and merit-based scholarships, bursaries, loans, and prizes for students. The Faculty strongly encourages students to strive for excellence and to apply for funding that would enhance their education experience.



**Note:** The following scholarships, bursaries, awards, loans, prizes, and medals are subject to change. For further details, refer to each category's respective contact information.

- ***section 7.1: Admissions: Entrance Scholarships***

McGill offers some Entrance Scholarships annually to select first-year students based on academic merit. Certain scholarships are renewable annually for students who meet renewability criteria.

- ***section 7.2: Research Awards***

Research bursaries celebrate our students' achievements and allow students to establish themselves as innovative researchers. Bursaries are available to enable students to carry out research projects during their medical studies. These are awarded, on a competitive basis, in the Winter term and during summer vacation. Entrance scholarships are also available for students registered in the double programs: M.D.,C.M./M.B.A. and M.D.,C.M./Ph.D.

- ***section 7.3: Global Health and Travel Awards***

Generous donors have contributed to the global nature of medical innovation through the creation of numerous awards to facilitate students who wish to pursue research or clinical experience nationally and internationally.

- ***section 7.4: Needs-Based Scholarships, Bursaries, and Loans***

These funds are awarded to students in good academic standing who require financial support.

- ***section 7.5: Undergraduate Medicine Awards, Prizes, and Medals***

The Faculty of Medicine strives to commemorate students who demonstrate outstanding performance. Receipt is permanently recorded on the transcript of each recipient. This information is also included in the Medical Student Performance Record.

- ***Graduate Awards***

Please see the Graduate and Postdoctoral Studies website at [www.mcgill.ca/gps/funding](http://www.mcgill.ca/gps/funding).

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### 7.1 Admissions: Entrance Scholarships

For more information, contact [admissions.med@mcgill.ca](mailto:admissions.med@mcgill.ca).

#### **Anjna and Jogindar Majhail Scholarship**

Established in 2004 by Anjna Majhail, M.S.W.'72, in memory of her late husband Jogindar Majhail. Awarded by the Faculty of Medicine's Scholarship Committee to an outstanding student entering first year Medicine who demonstrates academic excellence. The scholarship is renewable for three years provided the holder maintains satisfactoryT 1 506.548 297.505 0UPO 1 d1 08 Tm7.225 Tm(A)Tj1 0 0 1 411.36 307.225 Tm1 0 84.465 Tm(hocalue: m 0 mum \$5,0

Established in 2006 by Dr. Graham Sommer, M.D.,C.M.'72. Awarded by the F

Established in 2010 by Norman Goldberg, B.Sc.'55, M.D.,C.M.'59, in honour of his late wife, Barbara Usher Goldberg, B.A.'57, M.A.'59. Awarded by the Faculty of Medicine's Student Research Committee to one or more medical or allied health students in the Faculty of Medicine at McGill University. Preference will be given to students conducting research on Alzheimer's Disease.

**Chiang Family Research Bursary in Medicine**

Established in 2010 by Dr. Patrick J W Chiang, M.D.,C.M.'65, and Mrs. Lee-Sen Chiang, B.Sc.'65. Awarded by the Faculty of Medicine's Student Research Committee to one or more medical or allied health students in the Faculty of Medicine at McGill University.

Value: varies.

**Class of Medicine 1960 Research Bursary**

Established in 2016 by the Class of Medicine 1960 in honour of their 55th anniversary reunion. Awarded by the Faculty of Medicine's Student Research Committee to support one or more students in the M.D.,C.M. program pursuing research in the Faculty of Medicine.

Value: varies.

**Class of Medicine 1966 Research Bursary**Established in 2016 7y the Class of Medicine 1960 6n honour of their 55t0 anniEsTj1 0 0 1 339.359 62 0 242m(Essary r

**Dr. Raymond and Mrs. Leora Kahn Research Bursary in Memory of Mrs. Marion Kahn**

Established in 2011, by Raymond Kahn, B.Sc.'69, M.D.,C.M.'73 and his wife, Leora Kahn, B.A.'71, M.S.W.'77, in memory of his mother, Marion Kahn, for outstanding students pursuing research in the Faculty of Medicine. Awarded by the Faculty of Medicine's Student Research Committee to one or more medical or allied health students in the Faculty of Medicine at McGill University

Established in 2006 by David Altshuler and the Altshuler Family in memory of his late father John H. Altshuler, B.Sc.'55, M.D.,C.M.'59. Awarded annually by the Faculty of Medicine's Student Research Committee to a medical student in the Faculty of Medicine who participates in a research project at McGill University. Preference will be given to students pursuing research within the fields of Pathology, Dermatology or Hematology.  
Estimated value: \$3,000.

**Judith Anne Wright Litvack Bursaries**

Bequeathed in 1999 by Judith Litvack to support the Research Bursary Program for students in the Faculty of Medicine and the Allied Health Sciences. The research projects supported are to be in the areas of cancer research and research of post-traumatic disorder anxiety. One or more bursaries in each of the two research areas will be awarded annually by the Faculty Research Committee.

Value: \$2,000 minimum for each.

**Kevric Summer Research Bursaries**

Established in 2009 by Richard Hylands, B.Com.'80. Awarded by the Faculty of Medicine's Student Research Committee to one or more undergraduate students in the M.D.,C.M. program in the Faculty of Medicine at McGill University.

**Leslie Gin Foo and Sophie Pui Woon Woo Research Bursary**

Established in 2015 by Anna Woo, M.D.,C.M.'92, in honour of her parents, Leslie Gin Foo and Sophie Pui Woon Woo, who came to Canada in search of a better life for their0 1 526.273 728Fsear

**Murray R. Stalker Primary Care Research Bursary**

Established in 2007 by Dr. Merrill Stalker, B.Sc.'47, M.D.,C.M.'51 in memory of his father, Murray R. Stalker, M.D.,C.M.'24, who was one of the principal founders of the College of F

**Alex W. Strasberg M.D.,C.M.'21 and Harvey M. Weinstein M.D.,C.M.'67 Global Health Award**

Established in 2016 by Rhona Weinstein (née Strasberg), B.A.'67, M.A.'69, and Harvey M. Weinstein, B.Sc.'63, M.D.,C.M.'67, in honour of Rhona's late father, Alex W. Strasberg, M.D.,C.M.'21 and Harvey M. Weinstein, M.D.,C.M.'67, both pioneers and advocates in clinical work and research related to vulnerable populations.

An immigrant to Canada, Dr. Strasberg was among the earliest Jewish students to graduate from McGill Medicine. He became a urologist on staff at the Jewish General Hospital and the Royal Victoria Hospital, conducted research, and taught in the Department of Urology at McGill. He devoted his practice to treating the poor and was for many years the physician of choice for many in the Montreal Chinese immigrant community.

Dr. Weinstein trained as a psychiatrist at Yale University and worked in university student health at Stanford University as well as in hospital and private practice settings. In later years he earned a public health degree from UC Berkeley and devoted his time to research and policy in refugee and immigrant health. Author of two books and numerous articles, he also became involved in human rights scholarship and advocacy about how countries respond to ethnic cleansing and genocide.

Awarded by the Faculty of Medicine upon recommendation of the Director of Global Health Programs to provide support for undergraduate medical students or postgraduate residents in the Faculty who are engaged in global health research and/or clinical training related to immigrant, refugee, and



**Dr. Yuk Chan Ma and Dr. Yuen Kok Chan Prize in Multicultural and International Medicine**

Established in October 2006 by Dr. Alice Chan-Yip, M.D.,C.M.'62, in memory of her late parents. Awarded annually by the Faculty of Medicine Scholarships Committee to a medical student who participates in a Canadian multicultural or international elective of at least four weeks. The prize will be awarded to the student who presents the best project demonstrating an understanding of the contribution of social and cultural factors to health.

Value: varies.

**Elaine E.L. Wang M.D.,C.M. Travel Award**

Established in 2015 by Elaine E.L. Wang, M.D.,C.M.'77, to provide travel support for M.D.,C.M. students who are pursuing an elective overseas in under-resourced areas in the world. Awarded by the Faculty of Medicine upon recommendation of the Director of Global Health Programs.

Value: \$3,000.

**Luger-Mikelberg Travel Award for Global Health**

Established in 2017 by Sherry Luger, M.D.,C.M.'83 and Michael Mikelberg, to provide travel support for Health Sciences students who are pursuing an elective overseas in under-resourced areas in the world, or among underserved populations in Canada. Awarded by the Faculty of Medicine upon recommendation of the Director of Global Health Programs. Preference will be given to students travelling to Africa and Rwanda.

Value: varies.

Expendable through 2020-21.

**The Mary A. Metcalf International Travel Fund**

The Mary A. Metcalf International Travel Fund is designated to support international research of undergraduate students, graduate students, and post-graduate medical residents within the Faculty of Medicine. Elective, research project or community service program must be at least four weeks. Its intent is to promote the training of health care workers and researchers to combat global health disparities, by supporting students to work with underserved populations in resource limited settings.

Value: varies.

**The Medicine Class of 1965 International Health Student Fund**

Established in May 2000 by the Class of Medicine 1965 in appreciation of the education they received at McGill. Funds will be used to allow medical students to pursue research or clinical electives overseas. One bursary will be awarded in each application round.

Value: varies.

**The Medical Class of '84 Student Bursary**

Established in 2010 by Medicine Class of 1984 to commemorate their 25th reunion, the award(s) will help support the travel and accommodation expenses of one or more senior medical students (year 3 or 4) pursuing an elective overseas in a developing country. Awarded by the Faculty of Medicine upon

**Annie Diamond Bursaries**

Established in 1969 for medical students with financial need. Awarded by the Scholarships and Student Aid Office.

**Bellam Memorial Bursaries**

Established with a bequest from the estate of the late C.F. Bellam. Awarded by the Scholarships and Student Aid Office on the basis of financial need to students in the Faculty of Medicine from the Eastern Township, Quebec, with preference for students from the Stanstead County.

**Beverley Cooner Bursary**

Established in 1968 by the family and friends of the late Beverley Cooner to assist a deserving medical student. Awarded by the Scholarships and Student Aid Office on the basis of financial need and academic standing.

**Bruce and Muriel Kelly Memorial Bursary**

Established in 1988 by a bequest from Muriel Kelly to assist a deserving and needy Canadian student pursuing the degree of M.D.,C.M., with a preference given to students from the Toronto area. Awarded by the Scholarships and Student Aid Office.

**Bruce Smith Bursary Fund**

From a bequest by the late Dr. Bruce Stew

Established in 2015 by the Class of Medicine 1978 on the occasion of their 35th Anniversary reunion. Awarded by the Scholarships and Student Aid Office to students in the M.D.,C.M. program on the basis of demonstrated financial need and good academic standing. Preference will be given to students from under-represented groups.

**Class of Medicine 1979 Bursary**

Established in 2007 by the Class of 1979 on the occasion of its 25th Anniversary reunion, which took place in 2004. Awarded by the Scholarships and Student Aid Office to students in the M.D.,C.M. or Med-P program on the basis of financial need to one or more students in good academic standing.

**Class of Medicine 1981 Bursary**

Established in 2007 by the Class of 1981 on the occasion of its 25th Anniversary reunion, which took place in 2006. Awarded by the Scholarships and Student Aid Office to students in the M.D.,C.M. program on the basis of financial need to one or more students in good academic standing.

**Class of Medicine 1983 Bursary**

Established in 2011 by the Class of Medicine 1983 in honour of their 25th Anniversary reunion. Awarded by the Scholarships and Student Aid Office to students in the M.D.,C.M. program on the basis of financial need and good academic standing.

**Class of Medicine 1987 Bursary**

Established in 2014 by the Class of Medicine 1987 on the occasion of their 25th Anniversary reunion, to honour the memory of their classmates: William Herman DeLong, M.D.,C.M.'87, Settimio Di Cori, B.Sc.'83, M.D.,C.M.'87, Richard Douglas Kohn, M.D.,C.M.'87, Ian Michael Rubins, B.Sc.'83, M.D.,C.M.'87, M.Sc.'92, Stacey Ann Schwartz, M.D.,C.M.'87, and Kenneth McNeill Wright, B.Sc.'83, M.D.,C.M.'87. Awarded by the Scholarships and Student Aid Office to students in the M.D.,C.M. program on the basis of financial need and good academic standing.

**CMA 150<sup>th</sup> Anniversary Bursary**

Established in 2017 by the CMA Foundation in celebration of the Canadian Medical Association's 150<sup>th</sup> anniversary. For two full-time M.D.,C.M. students enrolled in the Faculty of Medicine who are either a Canadian citizen, a permanent resident, or a person with protected/refugee status. Awarded by the Scholarships and Student Aid Office on the basis of good academic standing and demonstrated financial need. Preference will be given to students who are members of the Canadian Medical Association.

Value: varies.

Note: expendable through 2025–2026.

**David G. Guthrie Major Bursaries in Medicine**

Established in 2008 by David G. Guthrie, B.Sc.'43, M.D.,C.M.'44. Dr. Guthrie, a radiologist, wishes to acknowledge the education and opportunities provided to him by McGill and wishes to help future generations of medical students with their studies and medical ambitions. Awarded by the McGill University Scholarships and Student Aid Office to students in the M.D.,C.M. program and the Med-P year who have good academic standing and demonstrated financial need. Preference will be given to Canadian students entering the program.

Estimated value: \$5,000; renewable provided good academic standing is maintained.

**Dianne & Aldo Bensadoun Family Bursary**

Established in 2007 by Aldo Bensadoun, B.Com.'64. Awarded by the Scholarships and Student Aid Office on the basis of demonstrated financial need and academic standing to full-time students entering undergraduate degree programs in the Faculties of Agricultural and Environmental Sciences, Arts, Management, Science, Engineering, Law, and Medicine.

Estimated value: \$5,000; renewable.

**Dr. Alexander Macdonald Memorial Bursary**

Established in 1983 by Barbara S. McPhee in memory of her grandfather, Alexander Macdonald, M.D.,C.M. 1889. Awarded by the Scholarships and Student Aid Office to undergraduate medical students with good academic standing and financial need.

**Dr. Ben Benjamin Memorial Bursary**

Established by his sisters in memory of the late Ben Benjamin, B.A., M.D.,C.M., Lecturer in the Department of Pediatrics. Awarded on high academic standing and financial need to medical students by the Scholarships and Student Aid Office.

**Dr. Clarence Rosenhek Memorial Bursary**

Established in 2016 in memory of Dr. Clarence Rosenhek, M.D.,C.M.'40, by his family. Awarded by the Scholarships and Student Aid Office on the basis of demonstrated financial need and good academic standing to undergraduate medical students in the Faculty of Medicine.

Value: varies.

**Dr. David Cynberg Memorial Bursary**

Established in 2015 through the generous bequest of Renata Zenwirt-Cynberg, for undergraduate and graduate students enrolled in the Faculty of Medicine. Awarded by the Scholarships and Student Aid Office on the basis of demonstrated financial need and academic standing.

**Dr. David M. and Donalda L. Harvey Scholarship**

Established in 1995 by Dr. David M. Harvey M.D.'55, and his wife Donalda L., to support medical students based on academic standing and demonstrated financial need. The scholarship is tenable in any year and may be renewed. Awarded by the Scholarships and Student Aid Office.

Value: varies.

**Dr. David T.W. Lin Foundation Scholarship**

Established in 1993 in honour of Dr. David T.W. Lin, B.Sc.'37, M.D.'40, O.C., Surgeon Emeritus at the Royal Victoria Hospital, Honorary President of the Montreal Chinese Hospital and a leader in the Chinese community. Awarded by the Scholarships and Student Aid Office to a medical student on the basis of academic achievement and demonstrated need. Preference will be given to students of Chinese origin.

**Dr. E.M. Fisher Memorial Scholarship**

Available to any medical undergraduate student and awarded by the Scholarships and Student Aid Office.

**Dr. Elfric D. Brown Bursary in Medicine**

Established in 1973 by a bequest from the late Elfric D. Brown, M.D.,C.M. The income provides bursaries to help deserving students in the Faculty of medicine.

Value: varies.

**Dr. Harold N. Lyng Bursaries**

Established in 2004 by Dr. Harold N. Lyng, M.D.,C.M.'49, for one or more undergraduate medical students in good academic standing in the Faculty of Medicine who demonstrate financial need. Awarded by the Scholarships and Student Aid Office on the basis of financial need.

**Dr. Henry Kenneth Neilson Bursary**

Established in 1986 to be used to further the education of worthy medical students. Awarded by the Scholarships and Student Aid Office on the basis of academic standing and financial need.

**Dr. J. Robert Bowen and Veronica A. Bowen Bursary**

Established in 2009 through the estate of the late J. Robert Bowen, M.D.,C.M.'45. Awarded by the Scholarships and Student Aid Office to students in the Faculty of Medicine on the basis of financial need and good academic standing.

**Dr. J.H.B. Allan Scholarships**

Available to undergraduate medical students in any year. Awarded by the Scholarships and Student Aid Office.

**Dr. Jacob C. Schwartzman Scholarship**

Established in 1983 by Helaine Livingstone, B.A.'60, in memory of her father, Dr. Jacob C. Schwartzman, M.D.,C.M.'27. To be awarded to a student in the Faculty of Medicine on the basis of academic standing and financial need. Candidates must be Canadian or Permanent Residents.

**Dr. Maude E. Seymour Abbott Scholarships**

Established in 1938 in honour of the late Maude E. Abbott, B.A., M.D., F.R.C.P.(Canada), LL.D.(McGill), to commemorate her distinguished work in connection with the history of Canadian medicine, the Sir William Osler Pathological Collection, and her outstanding research in congenital cardiac disease. Awarded by the Scholarships and Student Aid Office to undergraduate medical students on the basis of academic standing and financial need.

**Dr. Maurice Brodie Memorial Scholarship**

Established in 1993 by Edna S. Brodie in memory of her husband, Dr. Maurice Brodie, M.D.'28. Awarded on the basis of academic standing and financial need by the Scholarships and Student

**Eva and Maurice Posternack Bursary in Medicine**

Established in 2013 by Charles Posternack, B.Sc.'77, M.D.,C.M.'81, in loving memory of his parents, Eva and Maurice Posternack. Awarded by the Scholarships and Student Aid Office to students enrolled in the F

**John and Barbara Altshuler Entrance Bursaries in Medicine**

Established in 2006 by David Altshuler and the Altshuler family, in honour of his parents, John Altshuler, B.Sc.'55, M.D.,C.M.'59, and Barbara Altshuler, DIP. P.Th.'58. Awarded by the Scholarships and Student Aid Office to a full-time undergraduate student entering the Faculty of Medicine M.D.,C.M. program, on the basis of demonstrated financial need and academic achievement. Renewable for a maximum of four years, provided the holder maintains the same level of financial need and academic standing.

Estimated value: \$5,000 each.

**Joseph Israel Bennett Bursary**

A bequest from the late Joseph Israel Bennett pro

**Mila Oh Bursary**

Established in 2007 by Dr. Peter Auld, M.D.,C.M.'52, in memory and in honour of his late wife, Shirley Auld. Aw



Established in 1962 by a donation from Mrs. Herbert Van Devanter Lacey of Cheyenne, Wyoming, primarily to aid medical students from the State of Wyoming. It may however be extended to others in accordance with the following priorities: dental students from Wyoming; medical students from other states of the U.S.A.; medical students from other countries. Loans are not to exceed \$2,000 per year.

**Weston Fay Volberg Jr. Memorial Loan Fund**

Established in 1956 by classmates of the late Weston Fay Volberg Jr., M.D.,C.M.'53. It is available to medical students.

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**7.5 Undergraduate Medicine Awards, Prizes, and Medals**

Value: varies.

**Joseph Morley Drake Prize**

Founded by the late Joseph Morley Drake, M.D.. Awarded to the student with the highest standing in the FMD – Fundamentals of Medicine and Dentistry

## 7.5.4 YEAR 3

### **Albert William Fulton Scholarship in Medicine**

Established in 2013 through the generous bequest of the late Emily Tatiana Fulton, in memory of her husband, Albert William Fulton, B.A.'58, whose love and appreciation of history and teaching enriched his life. Awarded by the Faculty of Medicine to an outstanding student enrolled in the full-time undergraduate, M.D.,C.M. program on the basis of academic merit. Preference will be given to Canadian students.

Value: varies.

### **CMA 150<sup>th</sup> Anniversary Award**

Established in 2017 by the CMA Foundation in celebration of the Canadian Medical Association's 150<sup>th</sup> anniversary. For one full-time M.D.,C.M. student enrolled in the Faculty of Medicine who is either a Canadian citizen, a permanent resident, or a person with protected/refugee status. Awarded by the Faculty of Medicine to a student in the M.D.,C.M. program who is in good academic standing and has exemplified the values of professionalism, including but not limited to: honesty and integrity, respect, responsibility and accountability, commitment to self-improvement, and collaboration. Preference will be given to a student who is a member of the Canadian Medical Association.

Value: \$15,000.

Note: expendable through 2025–2026.

### **Goodwin Prize in Forensic Medicine**

Established in 1953, awarded annually to a third year student enrolled in the "Formation of the Healer and Professional" course who writes the best essay in response to topics given for the end of the year assignment. The students will be instructed that the essay should represent the integration of concepts taught in the course along with their own personal experiences and observations in the clinical practice during clerkship.

Value: minimum \$1,500.

### **Winifred Margaret Ross Prize in Palliative Care**

Established in 2009 through the estate of Winifred Margaret Ross, M.Sc.'48, M.D.,C.M.'52. Awarded by the Faculty of Medicine for the best essay written in the field of palliative care to one student in their third year and one student in their fourth year of the M.D.,C.M. program.

Estimated value: \$1,500 each.

## 7.5.5 YEAR 4: Graduation

### **Abdul K.I. and Zai Razack Memorial Medical Student Prize for Social Justice in Medicine**

Established in 2012 by Dr. Saleem Razack, a faculty member, for outstanding graduating medical students who have demonstrated a commitment to addressing the health care concerns of local identified vulnerable and marginalized populations through either research or advocacy during medical school. Awarded by the Faculty of Medicine.

Value: varies.

### **Alexander D. Stewart Prize**

Founded by the late W. Grant Stewart (Arts, 1885; Medicine, 1888) in memory of his brother, the late Alexander D. Stewart (Medicine, 1888). Awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every aspect the highest qualifications to practise the profession.

Value: varies.

### **Brian Newton Memorial Award**

Established by the Class of Medicine 1985, in appreciation for the education they received at McGill, and in memory of their fellow classmate Brian Newton, B.Sc.'81, M.D.,C.M.'85. Awarded by the Faculty of Medicine's Committee on Student Promotions and Curricular Outcomes to the student who obtains the highest standing in the Obstetrics and Gynecology clerkship.

Estimated value: \$2,500.

### **Dr. Allen Spanier Prize for Professionalism in Medicine**

Established in 1999 by Beverly Spanier, B.A.'67 to honour the memory of her brother Dr. Allen Spanier, M.D.,C.M.'72. Dr. Spanier was chief of the Intensive Care Unit at the Jewish General Hospital for 21 years. Awarded annually by the Faculty of Medicine to a graduating student who has maintained high academic standing and exhibited a high standard of professionalism and compassion towards patients, their families, fellow students, and University and hospital staff during the Practice of Medicine component of the curriculum. In case of equally meritorious candidates, financial need will be used to determine the recipient.

Minimum value: \$500.

**Dr**

Value: varies.

**E. David Sherman Award in Geriatric Medicine**

Awarded to the most outstanding student in the field of clinical geriatric medicine. Awarded by the Faculty of Medicine Scholarships Committee.  
Value: minimum \$1,500.

**Elaine E.L. Wang M.D.,C.M. Humanitarian Prize**

Established in 2015 by Elaine E.L. Wang, M.D.,C.M.'77, for a graduating student of the M.D.,C.M. program in the Faculty of Medicine who has demonstrated excellence in humanitarian care and a caring attitude in his or her work. This may include, for example, work with a global health organization, or work with disadvantaged, homeless or stigmatized populations and patients locally in Montreal, within Canada, or abroad. Awarded by the Faculty of Medicine on the basis of academic standing and demonstrated commitment to the betterment of society and the health care system.  
Value: \$2,000.

**Elizabeth Ann Munro Gordon Prize**

Established in memory of Dr. Elizabeth Ann Gordon. Awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise the profession of medicine and has demonstrated outstanding leadership abilities.  
Value: \$750.

**H.S. Birkett Memorial Prize in Otolaryngology**

Established by Miss Winifred Birkett in memory of her father, the late Dr. H.S. Birkett, formerly Professor of Otolaryngology. Given to the student who has shown outstanding performance in Otolaryngology.  
Value: varies.

**J. Francis Williams Prize in Medicine and Clinical Medicine**

Founded by the late J. Francis Williams, M.D. Awarded to the student obtaining excellence in the Internal Medicine Clerkship of the medical curriculum.  
Value: varies.

**John H. Altshuler Prize in Family Medicine**

Established in 2006 by David Altshuler and the Altshuler family, in honour of his father, John Altshuler, B.Sc.'55, M.D.,C.M.'59. Awarded annually by the Faculty of Medicine to a graduating medical student with the highest mark in the family medicine clerkship.  
Estimated value: \$1,000.

**Keenan Memorial Prize in Clinical Surgery**

Established by the late Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan. The prize will be awarded to the student in the graduating class who has shown the highest proficiency in Clinical Surgery as determined by the Chair of the Department of Surgery. The winner of the Robert Forsyth Prize is ineligible for this award.  
Value: \$1,700.

**McGill Alumnae Society Prize**

Presented upon graduation to a distinguished student for excellence and high academic standing. Preference given to women students.  
Value: varies.

**Mona Bronfman Sheckman Prize**

Established in 1953. Awarded annually to a fourth year student in the Faculty of Medicine for the highest standing in Psychiatry.  
Value: minimum \$1,250.

**Montreal Children's Hospital Student Prize for Pediatrics Excellence**

Established in 1959 and endowed in 2011 by Dr. Harvey Guyda, former Chair of the department of Pediatrics and Associate Executive Director of the Montreal Children's Hospital of the MUHC. Awarded to the student with the highest standing in Pediatrics in their final year.  
Value: varies.

**Newell W. Philpott Award**

Established in 1986 by the Department of Obstetrics and Gynecology in honour of Newell W. Philpott, M.D. 1926, Chairman of the Department from 1943 to 1956. This award is to commemorate Dr. Philpott's excellence as a teacher of medical students and residents as well as his many contributions in the field and to the Department of Obstetrics and Gynecology. Awarded to a graduating student for academic achievement and clinical excellence on the recommendation of the Department.  
Value: \$500.

**Psychiatry Prize**

Awarded on the recommendation of the Department of Psychiatry to the student who has shown the most promise in this field.  
Value: varies.

**Reilly Madsen Prize**

Established to honour the memory of Reilly Madsen who was Manager, Records and Research, Development and Alumni Relations Services. Awarded, on recommendations from faculty and students, to a student with good academic standing who had demonstrated exceptional warmth and empathy towards patients.

Value: \$600.

**Robert F**

Educational Services: 514-398-1768  
Admissions Information: 514-398-3517  
Website: [www.mcgill.ca/medicine/about/contact](http://www.mcgill.ca/medicine/about/contact)

### 8.1.2 Medical Societies

All registered medical students are part of the **McGill Medical Students' Society Inc.** Please refer to [section 4: Medical Societies](#) to find out what this means to you, and to learn more about student activities and resources.

### 8.1.3 Undergraduate Medical Programs

For information about the Faculty of Medicine, its mission, and its objectives please refer to the [section 1: Medicine](#) faculty section.



**Note:** For a schedule of fees of any of these programs, please consult the [Student Accounts office](#) website.

#### [section 8.1.4: Doctor of Medicine and Master of Surgery \(M.D.,C.M.\) Medicine](#)

A four-year undergraduate medical curriculum leading to the M.D.,C.M. (*Medicinae Doctorem et Chirurgiae Magistrum*) degree. The curriculum objectives correspond to the Faculty of Medicine's mission to equip the student to meet the highest standards of medical practice and professionalism and to ensure career-long excellence in whole-person care. Upon completion of the program, the graduate will be able to function responsibly, in a supervised clinical setting, at the level of an undifferentiated physician. The program emphasizes the fundamental sciences and scientific methodology as pillars of medical knowledge. It provides traditional lectures and small group teaching, as well as laboratory and computer teaching.

The curriculum consists of four components:

- Fundamentals of Medicine and Dentistry (FMD)
- Transition to Clinical Practice (TCP)
- Clerkship
- Physicianship

Units in the Physicianship component are introduced sequentially. For selected students, the program includes a one-year integrated clerkship in Gatineau/Hull or elsewhere outside the city of Montreal. Promotion criteria are the same as in Montreal.

Electronic media, multimedia, and other information technologies are used by the Faculty for teaching purposes and to promote learning. Therefore, students should expect to be audio- and/or video-recorded as part of the program; for example, with learning being done at the Steinberg Centre for Simulation and Interactive Learning.

The language of instruction is English. The student is expected to have a working knowledge of the English language (comprehension, spoken, and written) from the outset of the M.D.,C.M. program. The student is also expected to have a working knowledge of the French language (comprehension, spoken, and written) from the outset of the M.D.,C.M. program. By the time they begin their clinical years, students have to be proficient in French. Please refer to [section 8.6.6: Language Proficiency](#) for further details.

The Faculty does not accept students for part-time medical studies.

#### [section 8.1.5: Doctor of Medicine & Master of Surgery with Master of Business Administration \(Joint M.D.,C.M. & M.B.A.\) Medicine & Management](#)

The M.D.,C.M. & M.B.A. program recognizes that there is an increasing demand in the health care sector for physicians with management skills and expertise. This is a five-year program in which the first year is spent in the Desautels Faculty of Management completing the M.B.A. core as well as building a solid background in health care management.

Then, the students will begin their medical studies, which will be integrated with additional elective courses in management. This will provide the opportunity to train well-rounded physician-managers who can eventually pursue careers in a wide range of health care areas, from the smallest clinic to the largest tertiary health care facility; from research laboratory to university or hospital medical departments, as well as the private sector within pharma/biotechnology firms and the health insurance sector, among others.

#### [section 8.1.62 Tm1 0 0 1 112.146 551.312 Tm\(sectector of Medicine & Master of Surgery with MastPhC.M\)Tj1 0 0 1 392.299 231.312 Tm\(sect M.D.,C.M. & M.B.PH](#)

### ***section 8.1.7: Doctor of Medicine & Master of Surgery with Oral & Maxillofacial Surgery (Joint M.D.,C.M. & O.M.F.S.) Medicine & Oral and Maxillofacial Surgery***

McGill University, through the Faculties of Medicine and Dentistry, offers a joint M.D.,C.M. & Oral and Maxillofacial Surgery Program. Upon successful completion of this six-year program, students will receive an M.D.,C.M. degree from the Faculty of Medicine and a Certificate in Oral and Maxillofacial Surgery from the Faculty of Dentistry.

#### **Admission Requirements**

Candidates must possess a D.D.S. or D.M.D. degree from an accredited North American dental school and be eligible to obtain a limited dental license from the *Ordre des dentistes du Québec*. (A limited license can be issued by the *Ordre des dentistes du Québec* without prior testing of French language competency.)

Candidates must also pass the National Board of Medical Examiners Comprehensive Basic Science Examination prior to commencing the program and receive a grade above 70%. Please check the [AAOMS website](#) for more details. Results must be available prior to the application deadline.

Candidates must be certified in ACLS prior to the start of the program.

#### **Application Information**

Admission is through the Faculty of Dentistry. All applications must be submitted electronically at [www.mcgill.ca/applying/apply](http://www.mcgill.ca/applying/apply) (Application Type: postgrad Med/Dent Education).

The application period starts August 1; the application deadline is September 1.

### ***section 8.1.8: Bachelor of Science (B.Sc.) - Medicine Preparatory Program (Med-P Program)***

Med-P is a special program for immediate graduates of the Quebec Collegial (CEGEP) system and consists of a preparatory year of coursework in the Faculty of Science followed by the standard four-year M.D.,C.M. program.

## **8.1.4 Doctor of Medicine and Master of Surgery (M.D.,C.M.) Medicine**

Conferral of the M.D., C.M. degree follows successful completion of the 4 curricular components of the MD, CM Program: Fundamentals of Medicine and Dentistry (year 1 and the first part of year 2), Transition to Clinical Practice (second part of year 2), Clerkship (years 3 and 4) and Physicianship (longitudinal throughout all 4 years). Program objectives are based on clinical presentations and competencies essential to the practice of medicine, as defined by Canadian authorities (e.g. Medical Council of Canada, Royal College of Physicians and Surgeons of Canada and the College of family Physicians of Canada). Graduates are expected to be able to function responsibly, in a supervised clinical setting, at the level of an "undifferentiated" physician (see <http://www.mcgill.ca/ugme/mdcm-curriculum-joint-programs>).

Note: The M.D., C.M. graduate may apply for a license only to practice medicine in a supervised (postgraduate residency training program) setting, and not for independent practice.

### **Required Courses (200 credits)**

#### **Fundamentals of Medicine and Dentistry**

INDS 111	(6)	Molecules to Global Health
INDS 112	(6)	Respiration
INDS 113	(8)	Circulation
INDS 114	(8)	Digestion and Metabolism
INDS 115	(6)	Renal
INDS 116	(6)	Defense
INDS 117	(6)	Infection
INDS 118	(6)	Movement
INDS 123J1	(1)	Research Fundamentals 1
INDS 123J2	(1)	Research Fundamentals 1
INDS 123J3	(1)	Research Fundamentals 1
INDS 124J1	(1)	Longitudinal Family Medicine Experience
INDS 124J2	(1)	Longitudinal Family Medicine Experience
INDS 124J3	(1)	Longitudinal Family Medicine Experience

INDS 125J1	(0)	Reflection and Evaluation 1
INDS 125J2	(0)	Reflection and Evaluation 1
INDS 125J3	(0)	Reflection and Evaluation 1
INDS 211	(6)	Reproduction and Sexuality
INDS 212	(12)	Human Behaviour
INDS 223	(1.5)	Research Fundamentals 2
INDS 225	(0)	Reflection and Evaluation 2

### Transition to Clinical Practice

ANAE 301	(2)	TCP Anesthesia
FMED 301	(3)	TCP Family Medicine
IMED 301	(7)	TCP Internal Medicine
INDS 224J1	(.666)	Community Health Alliance Project - C.H.A.P
INDS 224J2	(.667)	Community Health Alliance Project - C.H.A.P
INDS 224J3	(.667)	Community Health Alliance Project - C.H.A.P
INDS 305	(1)	Transition to Clerkship
INDS 323	(0)	TCP Integrated Assessment
NEUR 301	(2)	TCP Neurology
OPHTH 300	(1)	TCP Ophthalmology
PAED 301	(2)	TCP Pediatrics
RADD 301	(1)	TCP Radiology
SURG 301	(4)	TCP Surgery

### Clerkship

ELEC 400	(4)	Elective 1 Clerkship
ELEC 401	(3)	Elective 2 Clerkship
ELEC 402	(3)	Elective 3 Clerkship
ELEC 403	(3)	Elective 4 Clerkship
ELEC 404	(3)	Elective 5 Clerkship
FMED 405	(8)	Family Medicine Clerkship
IMED 401	(8)	Internal Medicine Clerkship
IMED 407	(4)	Geriatric Medicine Clerkship
INDS 408	(4)	Emergency Medicine Clerkship
INDS 421	(8)	Transition to Residency
INDS 423	(0)	Clerkship Integrated Assessment 1
INDS 424	(0)	Clerkship Integrated Assessment 2
INDS 426	(6)	Putting It All Together: Basic Science, Medicine and Society
INDS 427	(1)	Public Health and Preventive Medicine Clerkship
OBGY 401	(6)	Obstetrics and Gynecology Clerkship
PAED 401	(6)	Pediatrics Clerkship
PSYT 401	(8)	Psychiatry Clerkship
SURG 402	(8)	Surgery Clerkship



**Physicianship**

INDS 119J1	(1)	Clinical Method 1
INDS 119J2	(1)	Clinical Method 1
INDS 119J3	(1)	Clinical Method 1
INDS 122J1	(.667)	Physician Apprenticeship 1
INDS 122J2	(.667)	Physician Apprenticeship 1
INDS 122J3	(.666)	Physician Apprenticeship 1
INDS 219	(1.5)	Clinical Method 2
INDS 222J1	(.5)	Physician Apprenticeship 2
INDS 222J2	(.5)	Physician Apprenticeship 2
INDS 222J3	(.5)	Physician Apprenticeship 2
INDS 300	(1.5)	Mindful Medical Practice - Transition to Clinical Practice
INDS 302	(1.5)	Medical Ethics and Health Law
INDS 320J1	(.5)	Formation of the Professional and Healer
INDS 320J2	(.5)	Formation of the Professional and Healer
INDS 320J3	(.5)	Formation of the Professional and Healer
INDS 322J1	(.5)	Physician Apprenticeship 3
INDS 322J2	(.5)	Physician Apprenticeship 3
INDS 322J3	(.5)	Physician Apprenticeship 3
INDS 422D1	(.25)	Physician Apprenticeship 4
INDS 422D2	(.25)	Physician Apprenticeship 4

RoI3S 0 0luc0 0 1 254.97 0 1 g2721 Tm((.667))Tj1 0 00 0 11n01 018uc0 0 1 254.9T.401 Tm(T)Tj1 luc0 0 1 254.9eams.

The language of instruction is English. The student is expected to have a working knowledge of the English language (comprehension, spoken, and written) from the outset of the M.D.,C.M. program. Due to early clinical e

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## **8.2 Other Programs Offered Within the Faculty of Medicine**

### **8.2.1 Bachelor of Science (B.Sc.) Programs**

For Bachelor of Science (B.Sc.) programs available from the departments in the Faculty of Medicine, consult the [Faculty of Science Undergraduate](#) section.

### **8.2.2 Graduate Studies and Research in the Medical Sciences**

Opportunities for graduate w

Fax: 514-398-4631

Email: [admissions.med@mcgill.ca](mailto:admissions.med@mcgill.ca)

Website: [www.mcgill.ca/medadmissions](http://www.mcgill.ca/medadmissions)

### 8.3.1.3 International Medical Graduates (with Advanced Standing)

The Faculty of Medicine accepts applications from international medical graduates (IMG), i.e., applicants who have obtained a recognised medical degree outside Canada or the United States, who are also residents of Quebec. Applications will be accepted from qualified international medical graduates (from a university outside of Canada or the U.S.). The application deadline is November 1, and the program begins the following April.

Successful IMG applicants will enter the program at the Transition to Clinical Practice (TCP) component, starting in April and will continue into the clerkship and graduate with an M.D.,C.M. degree from McGill.



**Note:** Please note that in some circumstances (see "**International Medical Degree**" in [section 8.4: Eligibility Requirements](#)), IMG applicants can be considered for entry into the first year of the program and apply with their medical degree as their basis of admission degree in their residency cohort. An IMG application to the first year of the program (to complete all four years) is not restricted to residents of Quebec.

The number of positions available is contingent on the number of attritions from previous years and will vary; there may be years when no positions are available.

To be eligible, applicants must hold a medical degree from an accredited medical school recognized by the World Health Organization, must successfully complete the *Medical Council of Canada Evaluating Exam Part 1* (MCCEE1), must provide a Medical Student Performance Record together with an academic transcript, and must provide proof of English or French proficiency (see [section 5.2.2.1: Proof of Proficiency in English](#) and/or [Language Requirements for Professions](#)). Applicants must meet the basic science requirements and meet all other essential requirements listed. Competitive applicants will have MCCEE 1 scores that are at least 50 points higher than the passing grade.

Applicants who do not meet these conditions of eligibility or are seeking alternative options should contact the *Collège des médecins du Québec*.

Interviews are by invitation only and are conducted in a multiple mini-interview (MMI) format.

For more details, please consult the [Office of Admissions website](#).

### 8.3.2 Applicant Categories

The provincial government, by decree, determines the number and distribution (by residence) of available places for medical training in Quebec. Each applicant must submit proof of citizenship at the time of application. Canadian citizens or permanent residents of Canada must confirm the applicant category (set out below) to which they belong to at the time of application.

Applications for admission to the Faculty of Medicine are considered and assessed according to the following residence-based applicant categories:

1. **Quebec Resident:** Canadian citizen or permanent resident who is a recognized resident of the province of Quebec. This category is subdivided into:
  - a) Quebec – University: candidates holding an undergraduate (or higher) degree;
  - b) Quebec – Med-P: candidates applying directly from CEGEP to the Med-P program;
  - c) Quebec – NTP: Quebec residents applying via the Non-Traditional Pathway.
2. **Canadian (Out-of-Province):** Canadian citizen or permanent resident who is not a recognized resident of the province of Quebec.
3. **International:** Candidates who do not hold Canadian citizenship or residency and who require a permit to study in Canada (including U.S. citizens).

Applicants accepted under the Canadian (Out-of-Province) or International categories are subject to the admission rules and obligations of their assigned category for the duration of their medical studies, regardless of any subsequent change in citizenship or residency status.

The Minister of Health and Social Services of Quebec requires that Canadians (Out-of-Province) and foreign nationals holding a study permit (International applicant category), who are admitted to and wish to register for medical school in Quebec, sign a contract which stipulates a return-of-service obligation or a fine if, upon completion of medical training, they choose to stay in Quebec to practice.

The following applicant categories are for positions supernumerary to those set out in the categories listed above:

1. **Quebec First Nations or Inuit:** Residents of Quebec who are status members of a First Nation (according to the *Indian Act*) or a registered Inuit beneficiary, applying via the First Nations and Inuit Faculties of Medicine Program of Quebec (FNIFMPQ).
2. **Quebec – IMG:** Quebec residents who are International Medical Graduates (holding a medical degree from outside Canada or the United States) applying for admission with advanced standing.

Please consult [section 8.4: Eligibility Requirements](#) for further information and requirements for all of the above categories.

### 8.3.3 Academic Criteria

#### Undergraduate Degree Performance

The assessment of academic performance for M.D.,C.M. applicants holding university degrees (excluding Quebec Non-Traditional, Quebec First Nations and Inuit, and Quebec International Medical Graduate) is based on the following:

1. Undergraduate degree cumulative grade point average (DegGPA);
2. Academic performance in the basic sciences (science prerequisites);
3. Overall academic context.

The primary basis of the assessment of undergraduate degree performance is the **degree cumulative grade point average** (DegGPA) used for the basis of admission. Successful applicants have historically demonstrated a DegGPA above 3.5 out of 4.0 (average approximately 3.8). Applicants with a DegGPA below 3.5 are rarely considered to be competitive.

The Admissions Committee reserves the right not to consider those who do not have a minimum of 60 consecutive undergraduate graded credits (i.e., two full-time academic years) at the time of application.

For information on degree requirements, consult [section 8.4: Eligibility Requirements](#).

#### **Performance in the Basic Science Prerequisites**

The average of GPA scores in basic science prerequisite courses as undertaken either in college, university, or acceptable pre-university alternatives will be considered. The basic science GPA (SciGPA) is assessed separately from the degree GPA (DegGPA). Advanced studies in the basic sciences may also be considered in this assessment.

Candidates seeking an exemp undersult

9. responsibility, teamwork
10. ability to deal with conflict or stressful situations
11. leadership, initiative
12. sense of assurance despite ambiguity or self-confidence
13. community involvement, social activism
14. level of professionalism, respect for the public at large
15. personal development

### 8.3.5 File Review Process

Positions to train in medicine in Quebec are determined by governmental decree; please see [section 8.3.2: Applicant Categories](#). Students within each cohort compete with each other for a pre-determined number of positions within the particular cohort.

Each year, the *Office of Admissions* determines the number of interviews that will be held for each cohort. When an application is received, it is ranked among others in the same cohort according to academic performance. There is no strict GPA threshold; rather, ranking is based upon the relative strength of academic performance of a given application in comparison to others in the same cohort. On the basis of this preliminary academic performance ranking, a review of the supporting documents for competitive candidates within a given cohort is carried out. Supporting documents are reviewed for approximately four to six times the number of candidates that we anticipate interviewing; i.e., if we intend to interview 50 people in a particular cohort, an evaluation of supporting documents for the top 200-300 files is conducted in order to determine which 50 candidates will be invited to interview.

For those applicants who are invited to attend the multiple mini-interviews, note that a final rank order list (which includes those who will receive an offer of admission and those who will be placed on a waiting list) is calculated as follows:

**M.D.,C.M. applicants:**

Multiple Mini-Interviews: 80%

Basic Science performance: 20%

**Med-P, IMG, and NTP applicants:**

Multiple Mini-Interviews: 100%

The waiting list remains active for as long as is feasible and necessary; sometimes until the beginning of classes.



**Note:** These formulas are guidelines only and are subject to review and change by the Admissions Committee at any time and without notice.

### 8.3.6 Interview Process

Selected candidates will be invited by the Faculty of Medicine for an on-site interview session. Attendance is by invitation only, sent via electronic mail by the date published according to the applicant category. Candidates cannot be admitted without interviews. Interviews are an important tool for the Admissions Committee to evaluate those strengths and qualities that cannot be evaluated in a transcript or C.V.

Interviews are in multiple mini-interview (MMI) format and are conducted in-person at the Faculty of Medicine. These mini-interviews consist of multiple stations that can be task-oriented, simulation- or scenario-oriented, or discussion-oriented. Stations are designed to evaluate the v

These requirements apply to applicants who apply holding university degrees in either the Quebec resident, Out-of-Province Canadian, or International categories. Quebec residents applying through the First Nations and Inuit of Quebec Faculties of Medicine Program, the Non-Traditional Pathway, or the Med-P should refer to their respective applicant category (as defined in [section 8.3.2: Applicant Categories](#)).

The degree used as the basis of admission must be successfully completed by July 31 of the year of entry to the M.D.,C.M. program. This degree must be a Bachelor's degree and meet the following conditions:

#### **Basis of Admission (Undergraduate) Degree**

A 120-credit (“four-year”) or equivalent bachelor's degree from an accredited institution in any discipline. Applicants who have successfully obtained a Diploma of Collegial Studies (*Diplôme d'études collégiales*; “DEC”) in a pre-university program can apply with a 90-credit program from a Quebec university.

The basis of admission degree must have been undertaken on a full-time basis (12–15 credits per term) and should be completed in the time prescribed by the program. A full course load (as defined by the institution awarding the degree) is expected in regular sessions. Summer or other interim sessions are acceptable, assuming a full-time registration in regular sessions. The Admissions Committee expects a minimum of 60 consecutive graded credits at the time of application.

#### **Second Bachelor's Degree**

Candidates holding or currently pursuing a second Bachelor's degree may use the second degree as the basis of admission degree if:

1. the first degree completed meets the above requirements;
2. a minimum of 45 new, consecutive graded credits are earned by the application deadline. The remaining 15 (or more) credits must be completed, and the degree conferred, by July 31 of the year of entry to medical school, and must be at a comparable level of performance; and
3. the second degree demonstrates a stronger academic performance.

#### **All Bachelor Degrees**

Students from all academic backgrounds are encouraged to consider medicine as a career. Prospective applicants should pursue courses of study, whether in the natural or social sciences or the humanities, which appeal to them and which have as their aim a broad education and intellectual training rather than merely anticipating the medical curriculum. The Faculty seeks to ensure, by way of the basic science prerequisites, that all students have an adequate preparation in science.

The admissions office does not consider degrees without a marking or grading system; narrative transcripts are not accepted.

#### **International Medical Degree**

Applicants who are Canadian citizens or permanent residents of Canada and who hold a medical degree awarded by a recognized university outside Canada or the United States of America may be eligible to use this medical degree to apply to the first year of the M.D.,C.M. program.

- Official transcripts sent by that university must show numerical or letter grades for all courses completed and the candidates must meet the specific requirements of science prerequisites and MCATs described under the criteria for the M.D.,C.M. program. Pre-clinical and clinical performance will be assessed. The MCAT can be submitted to contribute to the assessment of pre-clinical performance.
- An MCC exam score (MCCEE-1) is required for 2019 admission.



**Note:** Canadian citizens or landed immigrants who are international medical graduates and residents of Quebec, who have completed the equivalence requirements, and have received a letter of attestation to this effect from the *Collège des médecins du Québec* should contact the [Postgraduate Medical Education](#) office.

### **8.4.2 Basic Science Prerequisites**

Applicants must have successfully completed, by the appropriate deadlines (see Note), all of the following at a college or university level:

1. in **Biology / Biological Sciences** a minimum six (6) credits of introductory coursework, with labs;
2. in **Chemistry** a minimum six (6) credits of general (or physical) chemistry coursework, with labs; a minimum three (3) credits of organic chemistry coursework, with labs;
3. in **Physics** a minimum six (6) credits of introductory coursework, with labs;

where: minimum course hours do not include compulsory laboratory or practical work. Grades of “Pass/Fail” (Satisfactory/Unsatisfactory) or of similar schema are not acceptable in coursework (numerical or letter-class grades are required).

Academic performance in these courses will be considered; courses completed more than eight (8) years before the application deadline will not be considered; distance or correspondence education courses are acceptable only by special permission and at the discretion of the Office of Admissions (Faculty of Medicine).



#### **Notes:**

- With the exception of two (2) courses, all of the basic science prerequisite courses must be **completed at the time of application**, with grades noted on the submitted transcript. **A maximum of two (2) courses can be outstanding at the time of application.** Transcripts for these outstanding courses must be received by the Office of Admissions (F



admissions office **between June and September** of the year they wish to apply to medicine. The admissions office reserves the right not to consider requests for exemption or substitution for basic sciences after September 30.

- Though not required, university-level courses in **physiology, molecular biology, and cell biology & metabolism** are strongly recommended. Knowledge of statistics and genetics is also useful in the context of the M.D.,C.M. curriculum.
- Candidates applying to the M.D.,C.M. program who have completed the seven prerequisite courses and who have also completed introductory-level university courses in molecular biology, cell biology, mammalian physiology, and organic chemistry will be evaluated on whichever of the two is the most favourable to the candidate.
- Acceptable alternatives to the basic science prerequisites include: Advanced Levels (UK System), IBO Courses (Higher Level), French Baccalaureate *année Terminale, Série S* courses, and AP results (College Board, Inc.).

### 8.4.3 MCAT (Medical College Admission Test)

#### MCAT Compulsory

An

3. must be in the final year and obtain (by July 31 of the entering year) a Diploma of Collegial Studies (DEC) in one of the stated programs;
- 4.



**Note:** In the event that November 1 is a Saturday or Sunday, applications will be due the **Monday** directly following.

Applications for the Med-P program must be received **by March 1**. All supplemental documentation required for the application must be received **by the March 1 deadline**.



**Note:** In the event that March 1 is a Saturday or Sunday, applications will be due the **Monday** directly following.

Applicants must open their online application at least 48 hours before the relevant deadline in order to obtain a McGill ID and password, which are necessary to complete the application process.

### 8.5.3 Notification of Decision

Decisions are released via *Minerva* and are thereafter confirmed by email. Please refer to our *website* for information on anticipated decision release dates by cohort.

### 8.5.4 Request for Reconsideration

It is important that candidates understand certain features of the application and admission decision-making process before requesting reconsideration. Admission to the Faculty of Medicine is highly competitive. In light of the very strong applicant pool and the limited number of places available in the first-year class, each year a number of very good applicants are not invited for interviews, or are refused after interviews. All candidacies are carefully reviewed before any decision is made. For example, an application that makes it to the interview stage will likely be reviewed by 10–20 individuals who assess the various aspects of each candidacy, from submitted documents to performance in person. This breadth of individuals involved in the selection process helps us assure fairness and thoroughness in our evaluation process.

**For these reasons, the decisions of the Faculty of Medicine admissions committee are final and not subject to appeal.** However, it is possible for applicants to request reconsideration of the application review procedures with respect to their admissions dossier at the following **two** specific points of the admission process:

1. before interviews are held;
2. before the final admission decisions are made, if they have been interviewed.

Applicants are expected to verify the admissions schedule for their category.

#### **Grounds to Request Reconsideration:**

An applicant may request a reconsideration of application review procedures leading to a decision (granting of interviews, offer of a position) on the basis of the following grounds:

1. administrative error in the procedure applied to the evaluation of the application;
2. the admissions committee's decision was rendered in the absence of a relevant factor that the applicant, for reasons beyond her or his control, was not in a position to provide at the time the application was submitted.

#### **Process and Deadlines to Request Reconsideration:**

*Applicants not invited for interview by the date published for their category:*

Submit a written request (email preferred) to the Faculty of Medicine admissions office, which must be received no later than five working days after the date published for the “notice of invitation to interviews” in the applicant's category.

This request must advance one of the two grounds for reconsideration listed above; disagreement with the outcome of the decision is not a basis for reconsideration.

*Applicants who have been granted an interview:*

Submit a written request (email) to the Faculty of Medicine admissions office. This request must be received no later than five working days after the last interview day in the applicant's respective category.

This request must advance one of the two grounds for reconsideration listed above; an applicant's disagreement with the outcome of the decision is not a basis for reconsideration.

*Univf*

Offers for M.D.,C.M. are conditional upon conferral of a Bachelor's degree (M.D.,C.M., M.D.,C.M./Ph.D., M.D.,C.M./M.B.A. programs) or Diploma of Collegial Studies (Med-P program) and upon the successful completion by the time of registration of studies currently in progress, at a level comparable to past academic performance.

For the first series of offers, successful applicants must respond within two weeks. Should they receive an offer, candidates having been placed on the wait list may be given a shorter period of time to respond.

For students admitted to the M.D.,C.M. program, notification of acceptance of the offer must be accompanied by a deposit of CAD\$500, which will be applied to the student's tuition fees. The deposit is refundable up to May 15 for international students and up to June 15 for non-Quebec Canadians and Quebec residents applying to the M.D.,C.M., M.D.,C.M./Ph.D. or M.D.,C.M./M.B.A. programs. For students admitted to the Med-P program, notification of acceptance of the offer must be accompanied by a deposit of CAD\$400, which will be applied to the student's tuition. For Med-P applicants, the deposit is refundable up to July 15.

#### **Waiting List**

The admissions office does not release rankings of admitted students. Waitlist rankings will be released at a time when all necessary information has been processed and not necessarily when the offer for a waitlist position is made. The admissions office reserves the right to withdraw an admissions offer in the case where a candidate fails to respond within the prescribed timeframe. Candidates who accept a place on the waitlist, therefore, must be reachable at all times and keep their contact information up-to-date in [Minerva](#).

#### **Decision by Proxy**

Students may designate a delegate ("proxy") to accept or refuse an offer on their behalf, should they be unavailable for a period of time. fergs oned 3.8m thh applposefo

To assure that students are not exposed to undue health risks and do not pose a risk to their patients, students must provide evidence of appropriate vaccination by July 31 of the year in which they commence undergraduate medical education, according to the information provided by [McGill Student Health Service](#).

- All students must be immunized against Hepatitis B and all students must have Hepatitis B titres (HbsAb) measured. Non-converters will be tested for Hepatitis B surface antigen (HbsAg). Non-converters will be offered counseling by McGill Student Health Service. Students who test positive for the surface antigen will be referred to the Undergraduate Associate Dean. If repeat serology does not confirm immunity, and the person is not a carrier, they will be given the option of another series of vaccines or a series of intradermal vaccines to attempt sero-conversion.
- Annual vaccination for influenza is required for all students. The student should retain proof of vaccination.
- Vaccination against other infectious diseases may be required, if need arises.

You have access to McGill Student Health Service as soon as you are accepted into the program. You must call 514-398-6017 to make an appointment.

If you choose to complete your immunizations through your family physician or your CLSC, make sure to follow the McGill immunization requirements since McGill Student Health Service will not accept different immunization protocols.

The completed form(s) must be returned to McGill Student Health Service. Upload immunization documentation via [Minerva](#) as soon as possible, and by July 31 of the year in which you are commencing the undergraduate medical education program at the latest.

For the purposes of verification of compliance with the immunization requirements, you grant permission to the Office of Admissions to securely share your immunization form with the McGill Student Health Service.

All immunization requirements must be met by Orientation Day. Students who do not meet these requirements may be asked to withdraw.

For details, see [www.mcgill.ca/ugme/academic-policies/infection-control-immunization](http://www.mcgill.ca/ugme/academic-policies/infection-control-immunization).

#### Mask Fit Test

All students are required to have a Mask Fit Test in order to choose the appropriate mask for their use. Students must have a mandatory Mask Fit session prior to Transition to Clinical Practice (TCP). The University is able to offer this test free of charge.

Students who are pursuing clinical rotations in Canada or the United States may be required to be refitted prior to their arrival at the actual clinical rotation's facility.

Please see [www.mcgill.ca/studenthealth](http://www.mcgill.ca/studenthealth).

#### Policy on Students Known to be Infected with Blood-borne Viruses (e.g., Hepatitis B, Hepatitis C, and HIV)

Individuals who carry blood-borne pathogens might not be permitted to perform certain procedures that may pose a risk to patients and co-workers.

Students who are seropositive for Hepatitis B and/or C or HIV and/or any other blood-borne agent have a professional obligation to notify the [UGME office](#) upon entry into the program. Specific measures will be undertaken by the UGME office. Rotations may be modified for these students due to these circumstances.

The student will be referred to the *Service d'évaluation des risques de transmission d'infections hématogènes* (SERTIH). Modifications to clinical rotations may be made. The student will be assisted in acquiring appropriate health care. Specific career counselling will be given. Students will be advised not to select residency programs where patient safety would be put at risk. This may limit the residency programs to which the student may apply.

Should core clinical rotations need to be modified, notation of this will be made in the Medical Student Performance Record (MSPR/Dean's letter). The student is professionally responsible to self-disclose their seropositive status to the residency program to which the student matches. For details, see [www.mcgill.ca/studenthealth/immunize/forms](http://www.mcgill.ca/studenthealth/immunize/forms).

Further details are available at [www.mcgill.ca/studenthealth](http://www.mcgill.ca/studenthealth), [www.mcgill.ca/ugme/academic-policies/infection-control-immunization](http://www.mcgill.ca/ugme/academic-policies/infection-control-immunization), [www.mcgill.ca/ugme/academic-policies/infection-control-immunization/infection-control-precautions](http://www.mcgill.ca/ugme/academic-policies/infection-control-immunization/infection-control-precautions), and [www.mcgill.ca/studenthealth/immunize/forms](http://www.mcgill.ca/studenthealth/immunize/forms).

### 8.6.3 Academic Standards and Essential Skills

**Any student wishing to register with the Faculty of Medicine will be held to the standards outlined below:**

Applicants to McGill University's Faculty of Medicine are evaluated and selected on the basis of academic, personal, and extracurricular dimensions. The Faculty admits those candidates who best demonstrate the potential to become excellent physicians. Applicants are therefore expected to demonstrate that they possess the intellectual, physical, and emotional capacities to meet the requirements of the curriculum without altering the essential program elements. Furthermore, the student must meet these requirements within a reasonable period of time. McGill seeks to provide its graduates with broad general knowledge in all fields of medicine and competence required to enter graduate medical training in a variety of specialties and subspecialties.

McGill University will consider for admission to its medical school any applicant who meets its academic and non-academic criteria. Once admitted the student must demonstrate the ability to perform the skills listed in this document. In conformity with the McGill University [Policy Concerning the Rights of Students with Disabilities](#) and the Quebec Charter of Human Rights and Freedoms (R.S.Q., chapter C-12), eligible students will receive reasonable accommodations appropriate to their disability. Appropriate accommodations are defined and arranged by the Faculty of Medicine in cooperation with the [Office for Students with Disabilities](#).

The essential skills required for matriculation, promotion, and graduation at McGill University are defined according to the objectives of our curriculum which in turn are based on the CanMEDS Roles framework of the Royal College of Physicians and Surgeons of Canada and the Four Principles of Family Medicine of the College of Family Physicians of Canada. The CanMEDS roles are **Medical Expert, Communicator, Collaborator, Manager, Health Advocate, Scholar, and Professional**. The Four Principles of Family Medicine are “the family physician is a skilled clinician”, “family medicine is a community-based discipline”, “the family physician is a resource to a defined practice population”, and “the patient-physician relationship is central to the role of the family physician”. For more details see [www.mcgill.ca/ugme/mdcm-curriculum-joint-programs/vision-mission-mdcm-program](http://www.mcgill.ca/ugme/mdcm-curriculum-joint-programs/vision-mission-mdcm-program).

- As a **Medical Expert** and **Communicator**, the student must have abilities in the areas of observation, communication, motor, intellectual-conceptual, integration, and quantisation.

Adequate skills in observation require that the student be able to accurately observe a patient and acquire visual, auditory, and tactile information. The student must be able to decode written documents, use a stethoscope with or without aids, and observe near and distant objects.

To communicate, the student must be able to speak, write, hear, and perceive non-verbal communication. A student must be able to communicate effectively and sensitively with patients, families, and any member of the health care team. A student must also be able to summarize coherently a patient's condition and management plan verbally and in writing.

The student must possess the motor skills required to directly perform palpation, percussion, auscultation, and other diagnostic manoeuvres in a timely manner. It is also desirable that the student be able to execute motor movements reasonably required to provide general and emer

### **8.6.7 Information Technology**

Because a large portion of the curriculum is available electronically, admitted students must have a personal computer with word processing/office suite software, standard web browsers, and Internet connection. The Medicine E-curriculum can be accessed via [myCourses](#).

Portable workstations such as laptops with wireless network connectivity (Wi-Fi/802.11b or greater; see McGill Wireless Networks at [www.mcgill.ca/it](http://www.mcgill.ca/it)) are recommended. On campus, students may have access to restricted computer laboratories, printers, and limited workstations (including Macs) for temporary assistance.

Be advised that electronic media, multimedia, and other information technologies are used by the Faculty for teaching purposes and to promote learning, including being audio- and/or video-recorded as part of the program; for example, at the Steinberg Centre for Simulation and Interactive Learning. By submitting your application, you are indicating your agreement with these terms.

### **8.6.8 Standards of Behaviour and Code of Conduct**

As a student in a professional faculty, individuals are expected to adhere to certain standards of behaviour. Common courtesy and respect are minimal requirements for all members of the academic community (faculty, students, and staff). Although students are in an early stage of their careers, their activities and interests are in two spheres: that of a student/learner and that of a professional (physician/dentist). Even though not yet a doctor or dentist, students are expected to abide by the standards of the profession. The general public expects medical and dental students to act like professionals. There are various codes and statements of rules and re

All students entering the four-year M.D.,C.M. program must initiate registration on the web via [Minerva](#). The Minerva registration period for newly admitted Medicine students is **June 11 to August 14, 2018**; further information is available [here](#).

In order for the official registration in the M.D.,C.M. program at McGill to be confirmed, the student must also present him or herself, with proper documentation, at the **Faculty Registration and Orientation** held from **August 21 to August 23, 2018. ATTENDANCE IS MANDATORY**. For more details, consult [www.mcgill.ca/ugme/mdcm-curriculum-joint-programs](http://www.mcgill.ca/ugme/mdcm-curriculum-joint-programs).

Failure to attend orientation will result in cancellation of the student's offer of admission to the program and registration.

For further information, consult [Minerva](#) and the registration information mailed to incoming students in June, as well as [www.mcgill.ca/importantdates](http://www.mcgill.ca/importantdates).

### Returning Students

All returning students must register on the web by adding the courses per term and year on Minerva. Returning students must register by the deadline specified or pay the appropriate late registration fees.

For further information, consult [Minerva](#) and the registration information emailed to returning students in early April, as well as [www.mcgill.ca/importantdates](http://www.mcgill.ca/importantdates).

## 8.7.2 Leaves of Absence



**Note:** This section is subject to change. For the complete Absences and Leaves Policy, students should refer to [www.mcgill.ca/ugme/academic-policies/absences-and-leaves](http://www.mcgill.ca/ugme/academic-policies/absences-and-leaves).

Leaves of absence during medical studies are generally discouraged, and the few exceptions are granted only for reasons of health or family crises. Requests for leave must be discussed with the Associate Dean (Undergraduate Medical Education) or Assistant Dean (Student Affairs). The student must submit documentation to support the leave request (*e.g.*, medical note, description of professional development plan, etc.) to the UGME Office. The M.D.,C.M. program reserves the right to impose a limitation on the number of leaves, as well as the total duration. The M.D.,C.M. program must be completed within seven (7) years (see [Promotions Regulations](#), point #35).

A leave for *medical reasons* may be granted for up to one year. Should the student request a prolongation beyond one year, the M.D.,C.M. program reserves the right to require a second opinion from a Faculty-designated physician. A student returning from a medical leave must provide documentation from the treating physician/professional counsellor attesting to the student's readiness to resume studies.

Once the leave has been approved by the Associate Dean (Undergraduate Medical Education) or Assistant Dean (Student Affairs), the student's registration and fees must be clarified with the Student Records Officer





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Website: [mcc.ca](http://mcc.ca)

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Email: [webmail@nbme.org](mailto:webmail@nbme.org)  
Website: [www.usmle.org](http://www.usmle.org)

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## 8.8 Medical Curriculum

The following refers to the four-year undergraduate medical curriculum leading to the M.D.,C.M. (*Medicinae Doctorem et Chirurgiae Magistrum*) degree.

### 8.8.1 Curriculum Renewal – Governance

Serving society's needs is of the utmost importance and requires training graduates who are well-equipped to assume leadership roles in their communities. This entails keeping a constant, watchful eye towards advancing the M.D.,C.M. program curriculum and continuous fine-tuning to ensure it remains in step with the health sciences environment of the 21st century in Quebec, nationally, and globally, including rapid advances in scientific knowledge. The undergraduate medical education program is overseen by the *M.D.,C.M. Program Committee*. This committee makes and enacts policies relevant to the design and delivery of the M.D.,C.M. program. It ensures that the program is aligned with the Faculty's mission statement and that it complies with relevant accreditation standards. It is responsible for the design, management, integration, evaluation, and continual improvement of the medical curriculum. The Chair of the committee is the Associate Dean, Undergraduate Medical Education (UGME). There is wide student representation within all educational committees, whether at the M.D.,C.M. Program Committee, its subcommittees, and discipline subcommittee levels.

For more information on M.D.,C.M. program governance, see [www.mcgill.ca/ugme/mdcm-curriculum-joint-programs/ugme-governance](http://www.mcgill.ca/ugme/mdcm-curriculum-joint-programs/ugme-governance).

## **8.8.2 Assessment System**

The Assessment System is multifaceted and under constant review by the Faculty. The Faculty reserv

