Department of Surgery
Annual Report 2021
Mission Statement

To provide highest-quality patient-centered surgical care, perform innovative research, and train the next generation of surgeons and scientists.
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     - Graduating General Surgery Residents
     - Graduating General Surgery Fellows

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   - Leadership Team
   - New Recruitment
   - Division Highlights
   - Notable Publications
   - Graduating Residents
   - Graduating Fellows

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   - Leadership Team
   - New Recruitment
   - Division Highlights
   - Notable Publications
   - Graduating Residents

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   - Notable Publications
   - Student Successes
   - Graduating Residents
   - Graduating Fellows

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   - Leadership Roles
   - Teaching Awards
   - Notable Publications
   - Visiting Professors
   - Student Successes
   - Graduating Residents
   - Graduating Fellow
THE MCGILL DEPARTMENT OF SURGERY ECOSYSTEM

McGILL UNIVERSITY
Faculty of Medicine and Health Sciences
McGill Department of Surgery
Research Institutes
HOSPITALS

McGILL UNIVERSITY HEALTH CENTRE
Montreal General Hospital
Royal Victoria Hospital
Lachine Hospital

JEWISH GENERAL HOSPITAL

ST-MARY’S HOSPITAL

Research Institute of the McGill University Health Centre
Lady Davis Research Institute of the Jewish General Hospital
St-Mary’s Research Centre

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I was struck by the many examples of collaboration and collegiality as we worked together to deliver excellent clinical care, train the future generation of surgeons and surgical scientists, make discoveries, and continue to innovate.

One of my main priorities as Department Chair continues to be mentorship and professional growth. We established new processes to support incoming recruits including creating academic career streams, formalizing mentorship committees, and revamping the application processes for Tomlinson start-up funding to improve transparency. We completed the first year of our Early Career Investigator Mentorship Program designed to support junior and mid-level faculty in applying for career development awards and grants. We are hard at work creating our own Surgical Leadership Development Program, in collaboration with McGill’s Desautels Executive Institute, which will welcome its first cohort of mid-career faculty in 2022. The Department’s website has been revamped (www.mcgill.ca/surgery/) with a new section for Faculty Development that houses information on onboarding, mentorship, academic promotion, Equity, Diversity and Inclusion (EDI) and other resources which we hope makes this information more accessible.

Although we faced scheduling challenges due to the pandemic, we were able to complete the first part of a strategic planning exercise for research and look forward to completing this in 2022. This will help us prioritize the skills and resources we will need to build on our academic strengths in the coming years. The surgeon-scientist program continues to be an asset, with 9 residents in the program in 2020-21, many of whom received extramural competitive funding. Our Experimental Surgery Graduate Program continues to evolve, and we introduced a Surgical Outcomes concentration to better train students in these important research skills.

Our students, residents and fellows continued to shine in 2021, despite the COVID pandemic waves that continued to affect all aspects of our lives. They continued to lead the way in their professionalism and dedication to patient care, learning and research. We unfortunately could not enjoy each other’s company in person for our 31st annual Fraser Gurd Day, but we had a very well attended virtual event, including visiting Professor Dr. Clifford Ko joining from California, dozens of excellent research presentations, and our graduation presentations to make sure that we recognize this important moment and celebrate excellence in our Department.

This year also saw some changes in our Departmental leadership. I would like to thank Dr. Wes Kassouf for his many contributions as Associate Chair for Academic Affairs, and am thankful that he will continue as Chair of the Department Promotions Committee. I am excited to warmly welcome Dr. Kevin Lachapelle who will be our inaugural Associate Chair for Faculty Development, and Dr. Melina Vassiliou who is incoming Adair Chair for Surgical Education. Both bring a wealth of experience and energy to these positions. We were also very fortunate to welcome Christina Raneburger as Administrative Associate Director for the Department, overseeing academic, financial and student affairs, as well as communication, and so much more!

While 2021 was again marked significantly by the pandemic, this report highlights just a few of the many examples of our Department’s contributions in clinical care, teaching and research. Thank you for reading – hope you enjoy it.

As we reflect back on 2021, we can all be proud that the Department of Surgery continued to build on our academic and clinical strengths, despite the ongoing challenges of the pandemic.
Department Leadership
UNDERGRADUATE EDUCATION

Simon Bergman, MD
Director, Undergraduate Surgical Education & Surgery Clerkship

POSTGRADUATE EDUCATION

Emmanuel Moss, MD
Program Director Cardiac Surgery

Sender Liberman, MD
Program Director General Surgery

Thierry Benaroch, MD
Program Director Orthopaedic Surgery

Mitchell Bernstein, MD
Program Director Orthopaedic Surgery (as of July 2021)

Mohamed El Sherbiny, MD
Program Director Urology

Stephanie Thibaudeau, MD
Program Director Plastic Surgery

Jason Patrick Bayne, MD
Program Director Vascular Surgery

Gabriela Ghitelescu, MD
Program Director Surgical Foundations

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McGill Department of Surgery by the numbers

ACADEMIC APPOINTMENTS

<table>
<thead>
<tr>
<th>TYPE OF APPOINTMENT</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>Clinical appointments:</td>
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<tr>
<td>Contract Academic Staff</td>
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<tr>
<td>Tenure Track</td>
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<td>Research appointments:</td>
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<td>Contract Academic Staff</td>
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<tr>
<td>Tenure Track</td>
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<tr>
<td>Honorary/Emerita/Emeritus</td>
<td>11</td>
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<tr>
<td>Other</td>
<td>28</td>
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<tr>
<td>TOTAL</td>
<td>274</td>
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</table>

24% women faculty

NUMBER OF RESIDENTS AND FELLOWS

Academic year 2020-2021

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>RESIDENTS</th>
<th>FELLOWS</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>Cardiac Surgery</td>
<td>17</td>
<td></td>
<td>17</td>
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<tr>
<td>General Surgery</td>
<td>48</td>
<td>13</td>
<td>61</td>
</tr>
<tr>
<td>Colorectal Surgery</td>
<td></td>
<td>4</td>
<td>4</td>
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<tr>
<td>Orthopaedic Surgery</td>
<td>27</td>
<td>20</td>
<td>47</td>
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<tr>
<td>Plastic Surgery</td>
<td>19</td>
<td></td>
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<tr>
<td>Urology</td>
<td>16</td>
<td>6</td>
<td>22</td>
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<td>Vascular Surgery</td>
<td>7</td>
<td>1</td>
<td>8</td>
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<tr>
<td>TOTAL</td>
<td>134</td>
<td>44</td>
<td>178</td>
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</tbody>
</table>

30% women

NUMBER OF GRADUATING RESIDENTS AND FELLOWS

Academic year 2020-2021

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>RESIDENTS</th>
<th>FELLOWS</th>
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<tr>
<td>Cardiac Surgery</td>
<td>3</td>
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<tr>
<td>Colorectal Surgery</td>
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<td>General Surgery</td>
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<td>12</td>
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<tr>
<td>Orthopaedic Surgery</td>
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<tr>
<td>Plastic Surgery</td>
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<td></td>
</tr>
<tr>
<td>Urology</td>
<td>3</td>
<td>4</td>
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<tr>
<td>Vascular Surgery</td>
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<td>1</td>
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<tr>
<td>TOTAL</td>
<td>28</td>
<td>35</td>
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### PUBLICATIONS

<table>
<thead>
<tr>
<th>Publication Type</th>
<th>Number</th>
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<tr>
<td>Article</td>
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<tr>
<td>Conference Paper</td>
<td>12</td>
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<tr>
<td>Editorial</td>
<td>16</td>
</tr>
<tr>
<td>Letter</td>
<td>12</td>
</tr>
<tr>
<td>Note</td>
<td>18</td>
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<tr>
<td>Review</td>
<td>69</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>511</strong></td>
</tr>
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*(SciVal November 27, 2021)*

### FUNDING

- **More than $21 M in funding**
- **35%** by government agencies (e.g., FRQS/CIHR/NIH)
- **65%** other funding agencies (e.g., foundations; industry)
While we are still fighting the COVID-19 pandemic, 2021 brought us some hope and a sense of normalcy. Our borders are opening, traveling restrictions are increasingly being loosened and we can finally enjoy gathering with family and friends at a restaurant for a good meal.

For Academic Affairs, 2021 was a very productive year. We launched several special projects that will offer support and guidance to our faculty members. More than ever, we witnessed the resilience, passion and commitment of our members. We are proud to have such a dedicated team!

We know, that the strength of a Department is in its members. A great surgeon is supported by a great team. We are dedicated to pave the path for success for each faculty. We want to give every surgeon and scientist the tools for success. We know how important onboarding and mentorship is for every new faculty member. Therefore, every new recruit will now be supported by a tailored onboarding and mentorship committee, composed of internal and external members of the recruiting division. Being supported and mentored by peers is an essential pillar for success and integration.

Furthermore, we organized a promotions webinar along with Dr. Leslie Fellows, Vice-Chair of Academic Affairs for the Faculty of Medicine and Health Science. We want each member of our department to climb the ladder of academic success. Understanding the processes and requirements for promotion is crucial to achieving it. You can find the webinar video and all training materials, including powerpoints and tool kits, on our faculty development website: www.mcgill.ca/surgery/faculty-development/promotions.

We revamped the faculty affairs website to facilitate easy and quick access to important academic information such as the promotion process and requirements, the Tomlinson award, academic performance evaluation, Equity Diversity and Inclusion, and physician wellbeing. We hope many of you will visit our site! www.mcgill.ca/surgery/faculty-development

Last but not least, we established and defined six academic tracks in surgery. Surgeons may change between tracks over time. The suggested frameworks for time distributions are flexible and presented as a guideline range within which specific percentages can be designated, depending on the envisioned role and expectations of the recruited faculty member. Regardless of which academic track, all faculty members are required to engage in teaching at the bedside, in clinics, and/or in the operating rooms. Faculty are also required to teach learners and/or peers for a minimum of two hours per year of formal teaching as a requirement for their academic appointment. We outlined six tracks and all pertinent information is on our website: Surgeon-Teacher/Surgeon-Educator/Surgeon-Investigator/Surgeon-Scientist/Surgeon-Administrator/Scientist: www.mcgill.ca/surgery/faculty-development/academic-tracks-surgery
FACULTY PROMOTIONS

The departmental promotions committee meets twice per year (spring and fall). Members include: Drs. Wassim Kassouf (chair), Liane Feldman, Gerald Fried, Kevin Lachapelle, Anie Philip, Jake Barralet, Reggie Hamdy, and Greg Berry. We would like to congratulate the following faculty on their promotion in 2021:

Promotion to Associate Professor

Amin Andalib  
General Surgery

Maurice Anidjar  
Urology

Mitchell Bernstein  
Orthopaedic Surgery

Dan Deckelbaum  
General Surgery

Tarek Razek  
General Surgery

Jonathan Spicer  
Thoracic Surgery

Carol-Ann Vasilevsky  
General Surgery

Promotion to Full Professor

Sero Andonian  
Urology

Lisbet Haglund  
Orthopaedic Surgery

Sender Liberman  
General Surgery

Cristian O’Flaherty  
Urology

Steven Paraskevas  
General Surgery
The Tomlinson award supports the recruitment and retention of outstanding young surgeons and surgical scientists who will contribute to our academic mission.

The fund provides start-up salary support that must be matched by funding from the recruiting Hospital, Research Institute or Division to be used as start-up operating funds. The Tomlinson committee meets twice a year and is comprised of: Drs. Liane Feldman, Kevin Lachapelle, Jake Barralet, Ruth Chaytor, Donna Tataryn, Michael Tanzer, Stephanie Wong and Ari Meguerditchian.

<table>
<thead>
<tr>
<th>YEAR START</th>
<th>YEAR END</th>
<th>NAME</th>
<th>DIVISION</th>
<th>TITLE</th>
<th>AWARD</th>
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</thead>
<tbody>
<tr>
<td>2021</td>
<td>2025</td>
<td>Carmen Mueller</td>
<td>General Surgery</td>
<td>Coaching par les pairs pour les chirurgiens en pratique - modernisation de la formation médicale continue en chirurgie</td>
<td>FRSQ Chercheur Boursier Clinicien Junior 1</td>
</tr>
<tr>
<td>2021</td>
<td>2025</td>
<td>Stephanie Wong</td>
<td>General Surgery</td>
<td>Optimiser la prise de décision et la prévention du cancer du sein chez les femmes à risque élevé</td>
<td>FRSQ Chercheur Boursier Clinicien Junior 1</td>
</tr>
<tr>
<td>2021</td>
<td>2025</td>
<td>Jonathan Spicer</td>
<td>Thoracic Surgery</td>
<td>Au carrefour de l’immunité tumorale innée et adaptative sur la trajectoire de soins des patients atteints d’un cancer pulmonaire opérable: Comment élargir nos créneaux de tirs?</td>
<td>FRSQ Chercheur Boursier Clinicien Junior 2</td>
</tr>
<tr>
<td>2021</td>
<td>2025</td>
<td>Julio Flavio Fiore</td>
<td>Surgery</td>
<td>La voie du rétablissement après la chirurgie: Stratégies contemporaines pour mesurer et améliorer les résultats postopératoires</td>
<td>FRSQ Chercheur Boursier Junior 2</td>
</tr>
<tr>
<td>2021</td>
<td>2023</td>
<td>Rosenzweig Derek</td>
<td>Orthopaedic Surgery</td>
<td>Nouvelles approches de délivrance thérapeutique pour une régénération améliorée des tissus musculo-squelettiques aprè s résection tumorale, traumatisme ou infection.</td>
<td>FRSQ Chercheur Boursier Junior 2</td>
</tr>
<tr>
<td>2021</td>
<td>2025</td>
<td>George Zagopoulos</td>
<td>General Surgery</td>
<td>Accélérer l’oncologie de précision pour les cancers pancréatique-biliaires: un programme partenaire du Consortium québécois contre le cancer</td>
<td>FRSQ Chercheur Boursier Clinicien Senior</td>
</tr>
</tbody>
</table>
2021 Resilience and Perseverance

Again, another year dominated by the pandemic. While we adapted to the ‘new normal’ relatively fast, the seemingly endless uncertainty made this a more exhausting year than we had all hoped. The reduction, and in many cases total loss of in-person human interaction in graduate teaching and research taught us new skills, but also underscored both the limitations of screen-based activity and perhaps the underappreciated value in meeting and discussing ideas and challenges with colleagues. Perhaps most frustrating was the inability to plan ahead. An end of year Omicron wave did little to improve matters, such that by the end of the year scarcely any family had not been affected in some way.

McGill Department of Surgery researchers are nothing if not resilient and persevering. They recognized that many of the changes were here to stay and that this was a time to prepare for a new future in which research practices were likely to differ from previous years, as we adapted to new challenges in recruitment and reduced productivity. The delayed 31st Fraser Gurd Research Day was delivered online with parallel sessions, allowing us to engage with new leadership: Dean Yolande Chan, Desautels Faculty of Management, and Prof. Rhian Touyz CSO of Research Institute of McGill University Hospitals. The work performed by this group will form the basis of the development of the Mission and Values of Research in the Department.

Innovation: The Hakim Family Clinical Innovation Competition entered its second year of virtual delivery with no apparent drop in appetite for innovation. The McGill Department of Surgery led the field with two of the five winners being student-led teams from the Surgical Innovation graduate program, Remote Optical and Narmedical. (www.mcgill.ca/medhealthsci/about/faculty-awards-prizes/clic/2020-2021-competition)

2021 also saw the hard launch of the MGH-based Clinical Innovation Platform (CLIP) in September (www.clinicalinnovation.ca), that finally offers a place to develop their innovations further and where we were able to physically host many of the CLIC winners. With the generous support of the National Bank, the Birks Family Foundation and the partnership of the MGH Foundation the platform will be able to support local innovators in clinical validation and in helping them get funding.

The CLIP was able to host the establishment of the Surgical Robotics Centre by the Department of Surgery with the generous support of Kinova robotics under the direction of Dr. Amir Hooshiar.

Graduate Program: Under the leadership of Dr. Fackson Mwale, our graduate program managed not only to operate successfully, but to continue to grow, remaining one of the most popular graduate programs. 2021 saw the launch of the new Digital Health Innovation Masters program, run jointly with the Department of Medicine. In response to demands from students in Oncology, we developed graduate training in Surgical Oncology, both in the form of a concentration of the Non-Thesis Masters program and by creation of the Department’s first stackable Masters consisting of our Surgical Innovation certificate and the Oncology Diploma from the Department of Oncology. This program can be taken within a decade to allow a flexible route to qualification, these programs should be available in Fall 2022.

Productivity: Again 5% of the entire research output of McGill University was generated by the Department of Surgery. Of these papers, 8% were in journals with an impact factor > 10, representing a handful of the top 0.6% of journals in the world including JAMA, Gut, Nature Journal Family, Lancet, and BMJ. This outstanding work was supported by 21,220,588 M$ of competitive research funding, won by our researchers dedicated to improved patient care and outcomes.

Professor Mwale and I launched the Early Career Investigator Mentorship (eCIM). A weekend workshop series to help new investigators succeed as FRQS scholars by providing grant writing planning and writing skills and a forum where new researchers can meet others to gain insights and support as they begin their careers. The program began with 10 participants from four departments, and four scientists from Surgery have completed the program.

Strategy: With strategic consulting from Juniper, the Department embarked on its first strategic planning exercise, held in person at the St. James Club. This pre-retreat planning event, held in October, assembled thought leaders in the Department as well as external stakeholders such as Benoit Boulet Associate VP, Innovation & Partnerships.

This enabled us to engage with new leadership: Dean Yolande Chan, Desautels Faculty of Management, and Prof. Rhian Touyz CSO of Research Institute of McGill University Hospitals. The work performed by this group will form the basis of the development of the Mission and Values of Research in the Department, with a departmental-wide retreat planned for mid-2022. This process will then help build our roadmap for the coming years and assist in the prioritization of resources and refining research objectives.
As we entered 2021 and especially into the Fall, the COVID pandemic took a back seat and allowed the Department to renew its focus on providing surgical exposure and intra-operative teaching and learning. Unfortunately, the spiked little bugger came back with a vengeance and drove us out of the operating room. The anxiety of the first wave was replaced by confidence in the knowledge of what to do and how to contain this latest wave.

Once again, the residents have demonstrated their resolve and determination, not only to help the hospital deal with the virus, but also continue to focus on teaching and learning. Their commitment to educational excellence is highlighted by the number of candidates each division puts forward for teaching awards. Every year we have many deserving residents and it is often a struggle to select only one winner. Online strategies continued to be developed and provide for meaningful interaction. No, it is not perfect and the lack of direct physical interaction is an important drawback. At the heart of surgical education there is a social interaction, a one on one, which cannot be replaced by Zoom. I believe we have all realized how important these interactions are and make the most of each opportunity to teach and learn.

The opportunity to develop online programs and virtual connections does have obvious benefits. The Department initiated Surgical Grand Rounds for all divisions and McGill hospitals during the pandemic. The last year saw the first complete cycle. The attendance for these rounds is outstanding. The content is varied, but usually of a general interest to everyone. It is also a way of highlighting the excellence within the Department. I wish to thank our admin staff for being proactive in scheduling and contacting speakers.

This last year was an important renewal year for the Department. Notably, Dr. Benaroch stepped down as orthopedics Program Director and was replaced by another superb educator, Dr. Bernstein. Thierry was highly effective and admired for his dedication and innovation, and was awarded the Certificate of Merit from the Canadian Association for Medical Education. Dr. Liberman took over as General Surgery Program Director at the tail end of 2020 and continues to improve the program which was led by Dr. Meterissian.

On the admin front, we were very fortunate to have Sonia Nardini as Associate Director for many years. Her replacement, Christina Raneburger, is highly motivated and full of energy. Finally, I am very pleased to announce that Dr. Melina Vassiliou will be taking over as Associate Chair Education with renewed energy and fresh ideas to the position.

Lastly, I would like to highlight two individuals for their outstanding contributions to Surgical Education. First, Dr. Gerald Fried was awarded the 2021 Duncan Graham Award from the Royal College which recognizes an individual’s outstanding contribution to medical education. The awardees are giants in medical education and Dr. Fried joins previous recipients from the Department: Dr. Fraser Gurd, Dr. LD Maclean, and Dr. Richard Cruess. Second, our present Chair, Dr. Liane Feldman, was elected President of the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) for 2021-2022, an international society of 7000 surgeons worldwide.
In 2021, it will be my last year as the Associate Chair Academic Affairs. I had the privilege to hold this position for two terms since 2017. During my tenure I was in the first row witnessing the strength of this Department.

I look forward and welcome Dr. Kevin Lachapelle to the new role as the inaugural Associate Chair, Faculty Development! Dr. Lachapelle was the Associate Chair for Education before taking on this new endeavour.

H. ROCKE ROBERSTON CHAIR

Dr. Tarek Razek has been awarded the H Rocke Robertson Chair in Surgery.

Dr. Razek has served as Director of Adult trauma at the MUHC since 2004. The program has matured under his leadership, attracting outstanding surgical trauma-trained recruits. It is now one of the top performing tertiary trauma programs in Canada, as well as the largest provider of trauma education.

Dr. Razek has made significant teaching contributions at all levels, including as Quebec Chair for the American College of Surgeon’s Advanced Trauma Life Support course and as international chair of the Definitive Surgical Trauma Course (DSTC) of the International Association of Trauma Surgery and Intensive Care.

Dr. Razek has made extensive leadership contributions in developing trauma systems locally, nationally and globally. He is currently serving as Chair of the Quebec tertiary trauma committee which oversees the Quebec trauma system with the Institut national d’excellence en santé et en services sociaux (INESSS) and the Ministère de la Santé et des Services sociaux (MSSS) and regularly consults for INESSS on issues pertaining to the Quebec Trauma, critical care and medical transport systems. Nationally, he is the current president of the Trauma Association of Canada (TAC), having been a member of the executive for over 15 years. In this role, he has participated in national trauma system guideline development and helped develop the standards used by Accreditation Canada. He is the region Chief for Eastern Canada for the Committee on Trauma of the American College of Surgeons (ACS). Internationally, Dr. Razek has worked with the World Health Organization (WHO), the International Committee of the Red Cross (ICRC), surgical professional societies and ministries of health developing and implementing academic, educational, and policy initiatives focused on improving trauma, critical care, and emergency medical systems around the world.

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Kevin Lachapelle, MD
Incoming Associate Chair Faculty Development 2022
Melina Vassiliou, MD
Associate Chair
Education 2022

New Associate Chair for Education and Adair Family Chair in Surgical Education

I am very excited to take on this new role in the Department of Surgery as Associate Chair for Education and Adair Family Chair in Surgical Education. I have had a fervid interest in the science and psychology of education for many years and I am looking forward to learning more about surgical education at McGill and hope to contribute to shaping its future.

My first task will be to meet with stakeholders in the Department to better understand what the needs, strengths and challenges are in the different divisions and at the various stages of the surgical career cycle from medical students to surgeon retirement. I want to identify the areas of greatest priority while at the same time highlighting the successes. It will also be important to connect people in the department with common interests and goals such that they can share knowledge, resources, and ideas. I think that there will certainly be improvements in the areas of learning environment and competence by design.

Our understanding of how adults learn best and what learners need to thrive is still evolving. I want to know what trainees and surgeons at McGill need and hopefully implement some creative strategies to make the process of acquiring and maintaining knowledge and skills as effective and interactive as possible. I truly believe that learning is a highly social activity, and that we can better harness this aspect of education in our Department. Some potential ideas include a regular surgical education “clinic” where anyone in the Department can obtain a consultation about an education topic; a surgical education podcast, and regular gatherings between program directors to share ideas and build relationships.

Regarding research and scholarship, I aspire to stay on the cutting edge of innovations in medical education and I look forward to some of the future applications of technology in surgery, such as video-based assessment, artificial intelligence, and integrated hybrid simulation models.

I have had the privilege of collaborating with and learning from many different education scientists, psychometricians, and knowledge management gurus, and I would hope to continue to leverage these relationships in the role of associate chair. I will also re-instate regular research meetings to encourage collaboration and peer feedback amongst surgical education researchers.

It is my intention to promote educational excellence in the Department of Surgery, as well as to identify some of the aspects of our surgical culture that prevent us from supporting all learners. I will work hard to identify needs and priorities within the Department, in addition to providing faculty support and mentorship. I will also bring a strong desire to open up conversations about diversity, equity and inclusion so that we can understand where our blind spots are in order to be able to address them.
Experimental Surgery Graduate Program

As we head into the new academic year, I write to you with a message of gratitude for the work the McGill community has done to keep the campus safe and operating efficiently under difficult circumstances. My sincere gratitude to all of you for your acts of kindness, hard work, and dedication which have been crucial to sustaining collective wellness.

Because of the Omicron variant of COVID-19, we seem to be facing a déjà vu this winter, in another dispiriting phase of the pandemic. Despite these very tumultuous times, over the last 12 months, we have rallied together, and as a community demonstrated remarkable resilience and courage to sustain our academic and research activities. We have rapidly pooled our resources and remained committed to our students, faculty, and staff, while remaining very diligent in line with governmental restrictions to ensure a safe work environment. The pivot to remote formats has demanded innovation in remarkable ways from faculty in maintaining and enhancing the quality of education offered during the pandemic. My hope is that the lessons learned are going to persist beyond the pandemic and improve the range of approaches to pedagogy.

Everyone from the administrative team, Ms. Sharon Turner, Ms. Micha Huynh and Ms. Laura Epure to our investigators have prioritized student learning and engagement this year. We have been striving to keep you informed of any curriculum-related changes or virtually, Experimental Surgery is committed to extending its long tradition of excellence and innovation. We maintain a laser focus on responsible and respectful learning as we continue to build a legacy of achievement and service that will make us all proud.

We continued to offer Doctoral (PhD) and Masters (MSc) degree programs. At the Masters’ level, in addition to the core program, those who are interested have an opportunity to choose a concentration in Surgical Innovation, Surgical Education, Global Surgery, Surgical Outcomes, and Digital Health. We also offer a new graduate training in Surgical Oncology, a stackable Masters consisting of our Surgical Innovation certificate and the Oncology Diploma from the Department of Surgery. In Surgical Innovation, we have five teams this year for a total of 27 students. These were multidisciplinary, interuniversity teams with four students from ÉTS, 12 from Concordia, and three students from our new Digital Health program. We are grateful to the instructors Dr. Ahmed Aoude, Mr. Steve Arless, Dr. Edna Chosack, Dr. Andrew Churchill, and several other long-time collaborators from both industry and academia, and to Ms. Nathalie Goyette who has made running Surgical Innovation look easy.

Regardless of whether our interactions occur in-person or virtually, Experimental Surgery is committed to extending its long tradition of excellence and innovation. We maintain a laser focus on responsible and respectful learning as we continue to build a legacy of achievement and service that will make us all proud.

In the same program last year, our strongest team, named Remote Optical, received several prizes. They notably won First-Place Winners of the Marika Zelenka Roy Innovation Prize from the Clinical Innovation Platform (CLIP), the third place in the Health Sciences Enterprise (HSE) category of the McGill Dobson Cup, and are now part of the program Effervescence from District 3 at Concordia.

A Non-Thesis option offers a graduate-level training program in fundamentals of modern surgical research. The program is based primarily on academic course work and short projects. Our Non-Thesis Curriculum Directors involved in the program are Dr.Sweneke Bailey, Dr. Nicoletta Eliopoulos (Experimental Surgery), Dr. Jason Harley (Surgical Education), Dr. Barralet (Surgical Innovation), Dr. Dan Deckelbaum, Dr. Tarek Razek (Global Surgery) and Dr. Julio Flavio Fiore (Surgical Outcomes). The Surgical Innovation activity also offers a 15-credit Certificate and a 30-credit Diploma intended for candidates seeking focused training in innovation.

Our Department had one indigenous student, Ms. Dheeksha Reddy, who has graduated during this academic year. Our goal is to support and increase the number of indigenous students in the Department and we are committed to creating an environment in which the principles of equity, diversity and inclusion are integral to research and innovation.

In January 2021, Professor Jake Barralet and I launched the Early-Career Investigator Mentorship (eCIM) program which comprises of a series of workshops tailored for Junior level faculty submitting to FRQS. The program provides support throughout the year on preparation and application process, leading to the Fall application deadline. The unique aspect of this program is the opportunity for early-career investigators to work with experienced researchers and maintain a relationship with a mentor until their application is funded. This is based on the successful Bone and Joint Initiative USA program. We are thankful to Ms. Laura Epure for helping with the logistics.

We also launched the Experimental Surgery and Injury Repair Recovery Program (IRR) virtual seminar series with speakers such as Dr. Ahmed Aoude, Dr. Elizabeth Habermann, Dr. Carl-Eric Aubin, Dr. Robin Poole, and Dr. James Iatridis, to mention just a few. We are grateful to Dr. Michael Grant and Ms. Micha Huynh for coordinating the seminar.

We also extend our gratitude to the faculty judges, who are Dr. Julio Fiore, Dr. Rahul Gaonkar and Dr. Joshua Vorstenbosch, as well as the coordinator Ms. Micha Huynh for organizing the judging process.
Graduating Students in Experimental Surgery 2020-2021

### FALL 2020

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<thead>
<tr>
<th>NAME</th>
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<tr>
<td>Abuhajar, Ahmad</td>
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<td>Tran Dan Huy</td>
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### WINTER 2021

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<td>Addab, Sofia</td>
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<td>Azad, Sharlin</td>
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<td><strong>Graduate Certificate in Surgical Innovation</strong></td>
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<td>Wong, Angela</td>
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<td><strong>17 MSc: 14 PhD: 2 Grad Cert: 1</strong></td>
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### SUMMER 2021

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<td>Al-Mughairi, Hajar</td>
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<td>Bezdjian, Aren</td>
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<td>Geoffrion, Dominique</td>
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<td><strong>Total Summer 2021 graduated:</strong></td>
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### EDUCATION AWARDS 2020-2021

**Fraser Gurd Awards in Education**

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<tr>
<th>AWARDS TO FACULTY</th>
<th>AWARDS TO RESIDENTS AND FELLOWS</th>
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<tr>
<td>Harvey H. Sigman Undergraduate Teaching Excellence Award</td>
<td>Ross Adair Memorial Award for Teaching Excellence</td>
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<tr>
<td>• Daniel Obrand, MD</td>
<td>• Domenik Zammit, MD</td>
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<td>• Jason Corban, MD</td>
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<td>Outstanding Teacher Award, Post-Graduate Education</td>
<td>Edmond D. Monaghan Principles of Surgery Award</td>
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<td>• Stephanie Wong, MD</td>
<td>• Abdulrahman Almansouri, MD</td>
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<td></td>
<td>Kent MacKenzie Award for Educational Leadership and Excellence in Surgery</td>
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<td></td>
<td>• Teodora Dumitra, MD</td>
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Division Reports
Cardiac Surgery

I. The Division of Cardiac Surgery conducts its clinical, teaching, and research activities over three McGill University hospitals: the Royal Victoria Hospital, the Montreal Children’s Hospital, and the Jewish General Hospital.

The full spectrum of cardiac surgical procedures are performed on our sites, with dedicated teams and programs in:

• Coronary Revascularization
• Valvular and Structural Procedures
• Advanced Heart Failure therapies including Heart Transplantation; Combined Heart-Multiorgan Transplantation; and Mechanical Cardiac Assist for Acute and Chronic heart failure
• Aortic Surgery
• Surgery for Adult Congenital Heart Disease
• Neonatal and Pediatric Heart Surgery; including Heart Transplantation and Mechanical Cardiac Support
• Robotic Cardiac Surgery
• Pulmonary Thrombectomy for Pulmonary Hypertension
• Pericardial Diseases Program

II. The McGill Division of Cardiac Surgery Training Program includes the following Clinical Fellowships:

• Adult Complex Cardiac Surgery
• Pediatric and Congenital Cardiac Surgery
• Heart Failure/Heart Transplant/Mechanical Cardiac Assist

III. A broad scope of Basic Science, Translational, and Clinical Research is undertaken throughout the Division of Cardiac Surgery.
LEADERSHIP TEAM

Kevin Lachapelle, MD
Assistant Program Director

Dr. Renzo Cecere:
- Division Director
- Director and Principle Investigator, Myocardial Regeneration Lab, Research Institute of the MUHC
- Design, development, and evaluation of semi-autonomous soft robotic systems for cardiac interventions

Dr. Kevin Lachapelle:
- Aortic Clinic including genetic testing
- Local PI for clinical trial TITAN, ROMA

Dr. Christo Tchervenkov:
- Coordinator of Planning & Program Committees, Curriculum Webinars, World University for Pediatric and Congenial Heart Surgery
- Co-Chair, Curriculum Committee, Administrative Leader, World University for Pediatric and Congenial Heart Surgery

Dr. Benoit deVarennes
- Institut National d’Excellence en Santé et en Services Sociaux (INESS):
  - Comité d’experts MitraClip
  - Comité d’experts: Implantation Percutanée de la valve aortique

Dr. Dominique Shum Tim
- Promoting China-Foreign Friendship - 50 Chinese Elites Contributions to Celebrate 50th Year of United Nations Membership

Dr. Jean Francois Morin
- Single versus double venous cannulation to prevent atrial fibrillation post aorto-coronary bypass
- Correlation of imaging to operative specimen post pulmonary endarterectomy

Dr. Yves Langlois
- Annual risk adjusted outcomes post CABG and AVR as compared with all other Canadian centers (CIHI)
- INESS: Unité d’évaluation en Cardiologie. Investigator. Member of the scientific committee

Dr. Emmanuel Moss
- PGME Program Director
- Innovation at JGH for use of augmented reality headset to facilitate remote proctoring

DIVISION HIGHLIGHTS

Faculty achievements:

Dr. Renzo Cecere:
- Division Director
- Director and Principle Investigator, Myocardial Regeneration Lab, Research Institute of the MUHC
- Design, development, and evaluation of semi-autonomous soft robotic systems for cardiac interventions

Dr. Kevin Lachapelle:
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- Innovation at JGH for use of augmented reality headset to facilitate remote proctoring
NOTABLE PUBLICATIONS


GRADUATED RESIDENTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>CURRENT POSITION</th>
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<tbody>
<tr>
<td>Mansour Al Omran, MD</td>
<td>Fellowship in Edmonton</td>
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<tr>
<td>Sarah Sirajuddin, MD</td>
<td>Fellowship Cardiac Surgery/Structural Heart Fellowship in Atlanta, GA at Emory University School of Medicine</td>
</tr>
<tr>
<td>Nouf Baker, MD</td>
<td>Staff at King Fahad Medical City in Saudi Arabia</td>
</tr>
</tbody>
</table>
General Surgery

The Division of General Surgery is recognized internationally for our advancements in surgery, education, research, and leadership. The largest surgical division at McGill, our areas of excellence include acute care, minimally invasive, hepatobiliary and pancreatic, endocrine, bariatric, trauma and colorectal surgery, as well as multiorgan transplantation and surgical oncology.

Our Division is composed of over 50 Faculty treating complex surgical diseases across five McGill University hospitals: the Montreal General Hospital, the Royal Victoria Hospital, the Lachine Hospital, the Jewish General Hospital, and St. Mary’s Hospital.

Despite challenges, most prominently those related to COVID-19 this year, General Surgery has excelled in its mission to redefine surgery by humanizing the way we deliver innovative care for our patients, by offering an exceptional education with accessibility to leading surgeons, investigators, and techniques to foster our next generation of surgical leaders, and by continuing to push the boundaries of research, while cultivating a strong community spirit and respecting diversity.

The Division’s mindset has been to turn challenges into opportunities. Among them has been improving access for patients during the pandemic. We responded with upstream thinking such as creating subspecialty rapid-access clinics, enhancing communication across our network, and piloting ambulatory colectomy and patient apps. Our Faculty’s commitment to education has also fostered the development of new teaching strategies for our residents, these include disruptive thinking and visionary rounds, and increased the use of simulation as a response to changes imposed by the pandemic.

Our virtual rounds welcomed 10 international speakers ranging from an experimental test and space pilot, Jameel Janjua, discussing performance and accountability, to Dr. Gretchen Schwarze, a vascular surgeon and bioethicist from the University of Wisconsin, discussing strategies on improving communications. Our virtual 19th Annual LD MacLean Day was hosted by Dr. Teodor Grantcharov, Keenan Chair in Surgery at University of Toronto, focusing on culture, team performance, and surgical safety through his innovative approach applying the Black Box to surgical practice.

This past year alone, our Faculty published over 158 articles in refereed journals, with significant publications in JAMA Surgery, Nature Genetics, Journal of Clinical Oncology, Clinical Cancer Research, New England Journal of Medicine, Lancet and British Journal of Surgery. Our Division Faculty received nearly eight million dollars in research money, including funding from the Canadian Institutes of Health Research (CIHR) and the Fonds de la recherche en santé du Québec (FRQS).

Our members continue to hold prominent leadership roles across Canada and around the world, including at the Canadian Association of General Surgeons, the Royal College of Physicians and Surgeons, the Canadian Red Cross, the World Health Organization, and the American College of Surgeons. Most notably, Dr. Mark Basik is the current President of the Scientific Advisory Board of the Cancer Research Society, a major Canadian research granting agency. Dr. Simon Bergman is the Director of Undergraduate Surgical Education and the Associate Dean of Accreditation for UGME.

Dr. Patrick Charlebois is the President-Elect of our Association Québécoise de Chirurgie. Dr. Paola Fata is the President of the Canadian General Surgery Foundation.

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The Division of General Surgery welcomes Dr. Phil Vourtzoumis. Dr. Vourtzoumis received his medical degree from McGill University and later completed his general surgery residency training at McGill University in 2019. Following this, he completed a fellowship in Advanced GI Minimally Invasive, Bariatric and Robotic Surgery from Western University in London, Ontario. He also pursued a second year of fellowship training in Bariatric Surgery at the Institut Universitaire de Cardiologie et de Pneumologie de Quebec in Quebec City, Quebec.

DIVISION HIGHLIGHTS

Notable New Grants

1. BASIK, Marc
   Project Title: Profiling tumor-stromal interactions in metastatic breast cancer
   Funding Source: Cancer Research Society
   Total Amount in Can$: $500,000

2. METERISSIAN, Sarkis
   Project Title: Breast Cancer Metastases Registry Funding Source: McPeak-Sirois Breast Cancer Consortium
   Total Amount in Can$: $850,000

3. WONG, Evan
   Project Title: Improving the quality of trauma and acute surgical care in Northern Quebec: Translating global lessons to the domestic underserved
   Funding Source: McGill University Department of Surgery
   Total Amount in Can$: $90,000

4. FIORE Jr., Julio, Phd
   Patients preferences, attitudes, and beliefs towards receiving surgical cancer treatment during the COVID-19 pandemic: a qualitative study
   Fondation du Centre universitaire de sante McGill
   Total Amount in Can$: $113,524

Community Involvement:

Dr. Evan Wong
Spearheaded a broad-based program to enhance the surgical and trauma care we provide to the Nunavik region through a multipronged approach, including access to care, education, quality improvement, research, injury prevention, and medical technology.

Faculty Initiatives:

Drs. Jeremy Grushka and Evan Wong
Co-founded the Trauma and Acute Care Surgery research lab with Dr. Jeremy Grushka to enhance and organize scholarship within the Trauma group. The lab meets weekly and includes medical students, residents, nurses, research assistants, program managers and faculty from Surgery and Emergency Medicine.


## GRADUATING GENERAL SURGERY RESIDENTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>CURRENT POSITION</th>
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<tbody>
<tr>
<td>Abdul Raheem, Fawaz, MD</td>
<td>Colorectal Surgery</td>
</tr>
<tr>
<td>AlHashemi, Mohsen, MD</td>
<td>Minimally Invasive Bariatric Surgery</td>
</tr>
<tr>
<td>Al-Masroui, Safiya, MD</td>
<td>Minimally Invasive Bariatric Surgery</td>
</tr>
<tr>
<td>Almoudi, Emad, MD</td>
<td>Critical Care Medicine</td>
</tr>
<tr>
<td>Almuhanna, Yousef, MD</td>
<td>Advanced Minimally Invasive Hepato-Pancreatico-Biliary Surgery</td>
</tr>
<tr>
<td>Bourque, Marjolaine, MD</td>
<td>Colorectal Surgery</td>
</tr>
<tr>
<td>Corn, Sarah, MD</td>
<td>Surgical Oncology</td>
</tr>
<tr>
<td>Hanson, Melissa, MD</td>
<td>Minimally Invasive Surgery</td>
</tr>
<tr>
<td>Jastaniah, Atif, MD</td>
<td>Trauma Surgery</td>
</tr>
<tr>
<td>Lakoma, Anna, MD</td>
<td>Hepato-Pancreatico Biliary and Transplant Surgery</td>
</tr>
<tr>
<td>Levit, Barak, MD</td>
<td>Trauma Surgery</td>
</tr>
<tr>
<td>Nawawi, Abrar, MD</td>
<td>Hepato-Pancreatico Biliary and Transplant Surgery</td>
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## GRADUATING GENERAL SURGERY FELLOWS

<table>
<thead>
<tr>
<th>NAME</th>
<th>FELLOWSHIP</th>
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</thead>
<tbody>
<tr>
<td>AbouKhalil, Maria, MD</td>
<td>Colorectal Fellowship, McGill University</td>
</tr>
<tr>
<td>Al Farsi, Maryam, MD</td>
<td>Fellowship in Breast Oncology, McMaster University</td>
</tr>
<tr>
<td>Aldamry, Mohammed, MD</td>
<td>Fellowship in Bariatric Surgery at Queens University</td>
</tr>
<tr>
<td>Alsharqawi, Nourah</td>
<td>Will be returning home and pursue a fellowship in 2022</td>
</tr>
<tr>
<td>Faleh, Sohayab, MD</td>
<td>Surgical Oncology Fellowship, McGill University</td>
</tr>
<tr>
<td>Al Shehhi, Ruqaiya, MD</td>
<td>Trauma Surgery Fellowship, McGill University</td>
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<tr>
<td>Bouchard, Philippe, MD</td>
<td>Minimal Invasive Bariatric Surgery Fellowship, University of Ottawa</td>
</tr>
<tr>
<td>St-Louis, Etienne, MD</td>
<td>Pediatric Surgery Fellowship, McGill University</td>
</tr>
<tr>
<td>Abdul Raheem, Fawaz, MD</td>
<td>Colorectal Surgery</td>
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<tr>
<td>AlHashemi, Mohsen, MD</td>
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Orthopaedic Surgery

Coronavirus continued to colour all facets of our lives in 2021-22 from clinical care and research through to administration and social activities. As we head into the sixth and hopefully last wave of this seemingly never-ending pandemic, it is with a sense of satisfaction and enthusiasm that we reflect on our division’s accomplishments over the last academic year.

Orthopaedic surgeons across the Division have provided strong leadership at many levels within the Department of Surgery and Faculty of Medicine. Dr. Ruth Chaytor has skillfully guided the Department of Surgery at the Jewish General Hospital through the logistical challenges of Covid-19, maintaining staff morale and access to surgical care for the large patient population on waiting lists. Dr. Michael Tanzer, the MUHC’s Associate Surgeon-in-Chief, has successfully coordinated the Department’s efforts to sustain surgical care at the MUHC from the outset of the pandemic two years ago. Although not directly related to Covid-19 research, Dr. Fackson Mwale and Dr. Jake Barralet have ensured the research missions of the Department of Surgery and of the Division of Orthopaedic Surgery have continued to thrive and expand. This year has seen the arrivals and departures that are part of the living nature of a surgical division. Dr. Joanna Przybyl has joined the Sarcoma Unit from Stanford University as a scientist with a focus on metabolic reprogramming and the characterization of the immune landscape and clonal heterogeneity of soft tissue sarcomas. We look forward to exciting discoveries from her lab that will have a significant impact on the lives of sarcoma patients.

Our training programs for residents and fellows continue to attract the best and the brightest from within Canada and across the globe. Sixteen clinical and research fellows and twenty-seven residents have benefitted from the stimulating and challenging learning environment created by the devoted and motivated teaching faculty. Our graduates have successfully transitioned to leading fellowship programs across North America and Europe while others have taken up staff positions in major academic institutions. This year has seen Eric Lenczner and Robert Marien leave to enjoy the fruits of their many years of “hard-labour” and we extend our deep gratitude and respect for all of their contributions. Dr. Ryan Coughlin has joined the teaching staff at St Mary’s Hospital where he will focus on expanding this centre’s expertise in Sports Surgery.

Research in Orthopaedic Surgery has continued to thrive despite the pandemic. In addition to Dr. Przybyl’s lab, Drs. Hart and Tanzer have spearheaded the foundation of the research arm of the Septic Unit, a cross-divisional clinical and research endeavour established in 2021. They have successfully raised significant funds to launch their research program, including the prospective hiring of a new scientist. A large number of scientists and surgeons have published over 80 high-quality peer-reviewed scientific articles and have garnered over $5 million dollars in research funding.

Notable milestones and awards include the following:

• Dr. Thierry Benaroch was awarded the 2022 Certificate of Merit by the Health Sciences Education External Awards Committee of the Canadian Association for Medical Education.

• Dr. Fackson Mwale has been appointed as a Co-Chair / Associate Chairperson of the Musculoskeletal Tissue Engineering (MTE) study section of the NIH.

• Dr. Rene St-Arnaud has been appointed as a standing member of the Skeletal Biology Development and Disease study section of the NIH for a 4-year term from July 2021 to June 2025.

Despite the challenges of Covid-19, the residents and staff have been able to maintain group activities outside of the workplace to ensure our sanity and reinforce the strong team spirit of the Division. A profound thanks to all members of our community for their creativity, grit and resilience throughout the past academic year.

Lastly, Dr. Mitchell Bernstein has been appointed to replace Dr. Benaroch as Program Director and has already established a positive and energetic tone much appreciated by residents and staff.
NEW RECRUITMENT

Ryan Coughlin, MD
The Division welcomed Dr. Ryan Coughlin. Dr. Coughlin specializes in arthroscopic and open techniques to address disorders affecting the shoulder, hip, and knee. Particular clinical interests include rotator cuff and labral tears, shoulder instability, shoulder trauma, knee ligament injuries, athletic hip disorders, and cartilage disorders.
DIVISION HIGHLIGHTS

Academic Affairs:
- Promotion: Lisbet Haglund, PhD to Full Professor
- Promotion: Mitchell Bernstein, MD to Associate Professor

Faculty with Leadership roles:
- Dr. Fackson Mwale has been appointed as a Co-Chair / Associate Chairperson of the Musculoskeletal Tissue Engineering (MTE) study section of the NIH for the upcoming meeting in October 2021.
- Dr. Rene St-Arnaud on having been appointed as a standing member of the Skeletal Biology Development and Disease study section of the NIH for a 4 year term from July 2021 to June 2025.

Education:
- Dr. Thierry Benaroch: The Health Sciences Education External Awards Committee of the Canadian Association for Medical Education has recognized Dr. Benaroch with their 2022 Certificate of Merit.
- Dr. Adam Hart: Educator of the Year award
- Dr. Moreno Morelli: Altruistic Pt. Care award
- Dr. Faisal Alfayyadh: Julie Laurin Prize
- Dr. Yousef Marwan: Fellow Teacher of the Year

Research:
- Jake Barralet, PhD (Principal Investigator): Induction of transplantable angiosomes for segmental bone defect regeneration. Canadian Institute of Health Research (CIHR) Total amount: $722,926
- Lisbet Haglund, PhD (Principal Investigator): Regenerative approaches to treat back-pain in mice and men. Canadian Institute of Health Research (CIHR) Total amount: $378,675

NOTABLE PUBLICATIONS


NEW RECRUITMENTS

We welcome Joanna Przybyl, PhD who joined us from Stanford University. The Przybyl Lab employs multi-omic high-throughput experimental methods and bioinformatic tools to discover new therapeutic targets and new markers for diagnosis and classification of soft tissue sarcomas. The goal of her research is to develop clinically applicable assays and investigate new therapeutic approaches that will improve care for patients with soft tissue tumors.

Joanna Przybyl, PhD
GRADUATING RESIDENTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>CURRENT POSITION</th>
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<tbody>
<tr>
<td>Humaid Al Farri, MD</td>
<td>Two Year Fellowship in Spine and MSK Oncology then 2nd year Fellowship in Ortho Oncology at the University of Texas MD Anderson Cancer Center</td>
</tr>
<tr>
<td>Hussam Al Majed, MD</td>
<td>Sports Surgery at MedStar Health in Baltimore and Washington</td>
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<tr>
<td>Maxime Charbonneau, MD</td>
<td>Trauma Fellowship at Allegheny General Hospital in Pittsburgh</td>
</tr>
<tr>
<td>Peter Dust, MD</td>
<td>Orthopaedic Trauma Fellowship at the University of Toronto followed by a second year Arthroplasty and Lower Extremity Reconstruction Fellowship</td>
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<tr>
<td>Jason Khoury, MD</td>
<td>Roth McFarlane Hand and Upper Limb Centre in London, Ontario</td>
</tr>
<tr>
<td>Anas Nooh, MD</td>
<td>Complex Lower Limb Reconstruction and Orthopaedic Oncology Fellowship at McGill</td>
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GRADUATING FELLOWS

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<tr>
<th>NAME</th>
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<tbody>
<tr>
<td>Fares AlMarek, MD</td>
<td>JGH Arthroplasty</td>
</tr>
<tr>
<td>Malek Alshammari, MD</td>
<td>JGH Arthroplasty</td>
</tr>
<tr>
<td>Panayiotis Megaloikonomos, MD</td>
<td>JGH Arthroplasty</td>
</tr>
<tr>
<td>Evangelos Tyrpenou, MD</td>
<td>JGH Foot &amp; Ankle</td>
</tr>
<tr>
<td>Jasson Louie Arcinue, MD</td>
<td>Oncology and Adult Reconstructive Surgery</td>
</tr>
<tr>
<td>Mohammad Hassani, MD</td>
<td>Oncology and Adult Reconstructive Surgery</td>
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<tr>
<td>Saleh Alfaisali, MD</td>
<td>Pediatric Orthopaedic Surgery</td>
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<td>Barak Rinat, MD</td>
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<tr>
<td>Utaf Rudich, MD</td>
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<tr>
<td>Nizar Alghami, MD</td>
<td>Scoliosis &amp; Spine</td>
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<tr>
<td>Mina Aziz, MD</td>
<td>Scoliosis &amp; Spine</td>
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<tr>
<td>Bader Tayara</td>
<td>SMH Arthroplasty</td>
</tr>
<tr>
<td>Abdulaziz Abdullah</td>
<td>SMH Arthroscopy &amp; Sports Medicine</td>
</tr>
<tr>
<td>Yousef Marwan</td>
<td>MGH Sports Medicine &amp; Arthroscopy</td>
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<tr>
<td>Suliman Alshammari</td>
<td>MGH Sports Medicine &amp; Arthroscopy Clinical &amp; Research Fellowship</td>
</tr>
<tr>
<td>Yosif Mansor</td>
<td>Orthopaedic Trauma</td>
</tr>
</tbody>
</table>

60 Department of Surgery 61 ANNUAL REPORT 2021
THANK YOU BMOC (aka Big Man on Campus)

Dr. Thierry Benaroch was Program Director from 2013 to 2021

From the moment he takes you under his wing, Dr. Benaroch is clear about his open-door policy. It does not take much time to really understand how seriously he takes that promise. His commitment is so serious that he would even answer resident phone calls during stormy conditions with gale-force winds, requiring him to speak loudly and sometimes in a distressed tone. Fortunately, most would quickly realize that he was in fact attending to his second passion after being Program Director - cycling. In any case, Dr. Benaroch was always ready to advocate for his residents, and this reputation was well recognized across the entire McGill community. His welcoming approach and unwavering enthusiasm spilled into his teaching and into the lives of many of his patients.

Thank you Dr. Benaroch, for the imprint you have left on so many orthopedic residents over your tenure as Program Director. They certainly will not be forgotten.

Jason Khoury, McGill Orthopaedic Resident Grad 2021

Dr. Benaroch was like a father to us away from home. He always had our best interest and I knew that he fought for us as well. I will forever be grateful to him for all he has done.

Kind Regards,
Abdullah Addar, McGill Orthopaedic Resident Grad 2020

Dr. Benaroch is really hard to be replaced as he managed to improve the education, environment and pass all the obstacles to make the McGill Orthopedic program one of the top programs in the country. I'm truly proud of being a McGill graduate during his times.

Nizar Algarni, McGill Orthopaedic Resident Grad 2020

A good one liner is: I would not be an Orthopaedic Surgeon if it were not for Dr. Benaroch

A more extended version: “Dr. Benaroch stuck his neck out for me numerous times even when under no obligation to do so. It is in no way an exaggeration to say that without Dr. Benaroch I would not be an Orthopaedic surgeon. However, it goes well beyond that. Dr. Benaroch is one of the few voices in medical education that manage to strike a balance between being a good surgeon, being a good person and having fun while you do it! I will forever be grateful for his influence on the person that I am today.”

Justin Schupbach, McGill Orthopaedic Resident Grad 2020

I graduated from McGill Orthopedic Residency Program in 2018. Dr. Benaroch, aka BMOC was our PD from my interview until after I completed my residency. He was not only our boss, he was more of a mentor and a friend who was always available, listening and acting on any issues/concerns. Countless memorable moments highlighted by the Souvlaki dinners and clinic spandex. BMOC, you will be missed and you left some big shoes to fill!

Cheers,
Naser Alnusif, McGill Orthopaedic Resident Grad 2018

Dr. Benaroch may not know your name, but he surely can give you an awesome nickname!

An eclectic mix of Eddy Merckx, George Carlin, and Mother Teresa, the Big Man On Campus (BMOC), as stated on his driving license, became our Program Director when we were passing through some dark and difficult times.

With his humor, strategic planning, perseverance, and power naps, he was able to put us back on track with the Royal College and ease our minds. He brought our spirits up and spread a contagious happy energy in our program. We have learnt a lot from Dr. Benaroch about surgery, but most importantly he taught us how to be better humans, the real art of medicine. You only need to come to one of his clinics at the Shriners Hospital and watch him interact with patients and families to see for yourself.

I am proud to be a McGill Orthopaedic Surgery Program Alumnus and I consider myself lucky to have had Dr. Benaroch as a teacher and mentor.

Abdallah Hussein, McGill Orthopaedic Resident Grad 2017

Abdallah Husseini, McGill Orthopaedic Resident Grad 2017
I have known Dr. Benaroch as a resident as well as a fellow. I have spent 7 years at McGill and Dr. Benaroch has always been supportive to me during my residency. He was a real HUMAN! He cared so much about his patients and residents that’s why we all love him.

Something special about Dr. Benaroch is his great sense of humor :) I really enjoyed working with him in the clinic and operating room.

I wish him all the best in his next chapter.

Fahad H. Abduljabbar, McGill Orthopaedic Resident Grad 2015

As my program director but also as a mentor, I have always admired you as a great orthopaedic surgeon but also as a well-rounded person. The way you interacted and bonded with your patients was simply legendary (bike helmet and spandex helping...). Your demeanor in the OR, friendly with everyone (residents and supporting staff alike) was always a great mix of humor and seriousness! Your teaching rounds (with souvlaki!) were always entertaining and filled with applicable tips and tricks. Finally, you have shown us all that being a busy orthopaedic surgeon (and PD) is simply not an excuse not to be in great physical shape! I sure hope I can be in half the shape you are now when I am your age! Thanks for making my five intense years within the McGill Ortho Residency Program so memorable!

Maxime Beaumont-Courteau, McGill Orthopaedic Resident Grad 2016

Dr. Benaroch has created a family within Orthopaedic Surgery and his footprint will forever be imprinted on so many hearts, from residents to staff to administrative support. It was an honour and pleasure to be the Program Coordinator while he was Program Director.

Rania Iliyan, McGill Orthopaedic Program Administrator

Dr. Benaroch has taken over as the Program Director (PD) from Dr. Hamdy towards the end of our residency. Even though we experienced a small portion of his tenure as PD, he had a significant and positive influence throughout our training. He was a role model to many, and we learned a great deal from him. Whether it was in the Operating Room, in clinic still in his bike clothes or on a bike ride, he was always welcoming to trainees. He was constantly teaching and coaching us to be better, something which I continue to think about and strive to emulate every day. His passion for cycling was a dominating presence and I was lucky to take part in several bike rides with him. I was never able to beat him up any hill which still haunts me, however I hope one day we can ride together again and I can cross that off my bucket list. No excuses now since it can be done virtually. Thank you Dr. Benaroch for all your mentorship and guidance which we have all benefited from.

Nicholas Desy, McGill Orthopaedic Resident Grad 2013

Dr. Benaroch, aka BMOC (Big Man On Campus) took on the role of Program Director during the final years of my residency at McGill. An overwhelming majority of residents had voted to nominate him for this position as he was loved by all the residents in his capacity as a surgeon, educator, and mentor. As the Program Director he was very involved in ensuring the success of the residents as future Orthopaedic Surgeons. He also dedicated time routinely for teaching sessions to prepare us for the Royal College Exam. Most importantly, Dr. Benaroch was just a great person to be around due to his lively personality and his care for the residents.

Zeeshan Mohammad Sardar, McGill Orthopaedic Resident Grad 2014

Thank you, Dr. Benaroch for all the effort that you put to make this program one of the best programs in Canada. Thank you for being there when we needed you. Your guidance and support put us on the right path to complete this program successfully

Khalid AlKhelaifi, McGill Orthopaedic Resident Grad 2016

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Dr. Benaroch for all the effort that you put to make this program one of the best programs in Canada. Thank you for being there when we needed you. Your guidance and support put us on the right path to complete this program successfully

Khalid AlKhelaifi, McGill Orthopaedic Resident Grad 2016

Thank you,

Dr. Benaroch for all the effort that you put to make this program one of the best programs in Canada. Thank you for being there when we needed you. Your guidance and support put us on the right path to complete this program successfully

Khalid AlKhelaifi, McGill Orthopaedic Resident Grad 2016
Plastic Surgery

The McGill University Division of Plastic Surgery strives to provide state-of-the-art surgical care to our patients, combined with cutting edge research and innovation that continues to keep McGill Plastic Surgery as a leader in the field.

We have a diverse faculty and provide Plastic Surgery expertise in all of the subspecialty areas, including breast and oncologic reconstruction, burn surgery, pediatric and craniofacial surgery, hand and microsurgery, maxillofacial surgery and facial trauma, general plastic surgery, and aesthetic surgery. As a leader in surgical education, our residency training program attracts the finest trainees from across the country that participate in the complex, tertiary cases referred to our centre. Our division is proud to graduate three to four highly trained Plastic Surgeons per year along with one Craniofacial Surgery subspecialty fellow. Combined with a highly productive and dedicated full-time research team and infrastructure, McGill Plastic Surgery oversees numerous MSc and PhD students annually and continues to produce a high volume of peer-reviewed publications and book chapters. Taken as a whole, McGill Plastic Surgery embodies the true nature of a high-level academic surgery program, encompassing innovative patient care, surgical education and training of future plastic surgeons, and pioneering research.

LEADERSHIP TEAM

Stephanie Thibaudeau, MD
Program Director

Mirko Gilardino, MD
Division Director

Alex Viezel-Mathieu, MD
Division on Plastic Surgery

Anie Philip, PhD
Research Director

NEW RECRUITMENT

The Division of Plastic Surgery is pleased to welcome Dr. Alex Viezel-Mathieu.

Dr. Viezel-Mathieu completed his medical school and plastic surgery residency at McGill. He completed the Surgeon Scientist program and earned a Master’s degree focusing on simulation of reconstructive breast surgery and surgical education.

Dr. Viezel-Mathieu completed fellowship training at the University of Toronto, focusing on oncologic breast reconstruction. He has now joined the team at the JGH focussing on breast and oncologic reconstruction.
DIVISION HIGHLIGHTS

Important new grants in 2021:

Annie Phillip, PhD (Principle investigator)
Characterization of a novel anti-fibrotic peptide for the treatment of scleroderma
Instituts de recherche en santé du Canada (IRSC)
Total amount: $162,180.00

Annie Phillip, PhD (Principle Investigator)
Combining THz Technology, Optics, and Nanoparticles for biomedicinal applications (CoTTON)
Fonds de recherche du Québec - Société et culture (FRQSC)
Total amount: $100,000

Mirko Gilardino, MD (Co-investigator) with Dr. J. Barralet (Division Orthopaedic Surgery, Principal Investigator)
Induction of transplantable angiosomes for segmental bone defect regeneration
Canadian Institute of Health Research (CIHR)
Total amount: $722,926

Faculty successes:

- Dr. Gilardino was named Co-editor of the Plastic Surgery Journal and was appointed Director, Canadian Society of Plastic Surgeons Executive Board
- Dr. Lucie Lessard, with her International Work with ICOPLAST (60 countries/18,000 plastic surgeons / 5 Continents) is one of the 12 Founding members and was voted Treasurer by the Executive Board in 2021
- Dr. Josh Vorstenbosch was named as one of the top reviewers for the Journal of Plastic and Reconstructive Surgery for 2021
- Dr. Sabrina Cugno successfully published a textbook: Plastic Surgery: Principles and Practice, 2nd ed, as one of the editors.
- Dr. Thibaudeau, in conjunction with Dr. Bernstein from orthopedic surgery, have created a new orthoplastics multidisciplinary team to address complex limb issues.

NOTABLE PUBLICATIONS


GRADUATING RESIDENTS

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<thead>
<tr>
<th>NAME</th>
<th>CURRENT POSITION</th>
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<tbody>
<tr>
<td>Abdulaziz Alabdulkarim, MD</td>
<td>Craniofacial Fellowship McGill</td>
</tr>
<tr>
<td>Ahmed AlQattan, MD</td>
<td>Breast Reconstruction Fellowship, University of Toronto</td>
</tr>
<tr>
<td>Dino Zammit, MD</td>
<td>Craniofacial Fellowship, Seattle Children’s Hospital</td>
</tr>
<tr>
<td>Mehrdad Jabheri, MD</td>
<td>Community Practice, Aesthetic mini-fellowships</td>
</tr>
<tr>
<td>Rafael Galli, MD</td>
<td>Community practice, McGill Network</td>
</tr>
<tr>
<td>Roy Kazan, MD</td>
<td>Post-Bariatric Surgery Body Contouring Fellowship, University of Pittsburgh</td>
</tr>
</tbody>
</table>
The Division of Thoracic and Upper Gastrointestinal Surgery is a busy clinical program based at the Montreal General Hospital which provides state-of-the-art patient care for a wide range of malignant and non-malignant lung, chest, esophageal and gastric diseases, and is a North American and international leader in many of these fields.

With its supra-regional mandate, the Division’s program provides comprehensive care to lung, esophagus and stomach cancer patients residing on the McGill RUIS (Réseau universitaire intégré de santé) territory and is home to the largest and most comprehensive esophageal and gastric cancer program in Canada.

This Division has been privileged to develop an internationally recognized expertise in Thoracic and Upper G.I. Surgery, but is first and foremost an academic surgical unit, with half of the attending surgeons holding PhDs and all trainees involved in research with approximately 15-20 publications annually.

As an affiliate of the McGill University School of Medicine, the service functions as an active clinical teaching unit for residents, fellows and medical students, and is widely regarded for its robust clinical and basic science research productivity.

It is the only program in the province to receive the Minister of Health’s Level 4 designation for lung cancer, and as a result it offers the highest level of integrated patient care, research, and education in Quebec.
DIVISION HIGHLIGHTS

All services have been hit hard by the COVID-19 pandemic and Thoracic Surgery continues to provide the best care for its patients despite reduced clinics and OR time.

During this time of uncertainty, the Division of Thoracic Surgery had a move, and the ward is now located on 10 East at the Montreal General Hospital. This newly renovated floor encompasses 15 single-patient rooms with four negative pressure rooms and four monitor beds. This will allow any patient who has a chest tube to remain on the ward. Going forward there will be a request to have a procedure room added.

NEW RECRUITMENT

Sara Najmeh MD, MSc, FRCSC, Assistant Professor of Surgery

We are delighted to announce that Dr. Sara Najmeh joined the staff of the Division of Thoracic and Upper GI Surgery at the McGill University Health Center in July 2020.

Dr. Najmeh has both clinical and surgical duties based at the Montreal General Hospital and will be part of the Gatineau, Hull Hospital Thoracic clinic group.

Dr. Najmeh completed her residency in General Surgery as well as a successful Masters in Experimental Surgery here at McGill University.

Dr. Najmeh completed a traditional Cardiothoracic Residency at Duke University under the guidance and mentorship of Thomas A. D’Amico MD, a leader in the field of lung and esophageal cancer. This research and clinical background are incredibly in sync with the work that we do here at the MUHC and she will indeed be an excellent addition to our surgical and cancer missions.

Dr. Najmeh’s particular focus is on treatment of lung cancer as well as complex resections of chest including those requiring extracorporeal oxygenation approaches.

2021 PUBLICATION HIGHLIGHTS


**IMPORTANT GRANTS**

Jonathan Cools-Lartigue, MD was awarded the 2021 Thoracic Surgery Foundation (TSF) Research Award Application for his project entitled: "Investigating the Role Of Tumor Derived Extracellular Vesicles In Polarizing Polymorphonuclear Granulocytes Towards A Pro-Metastatic Phenotype."

**2021-2024: Identifying Drivers of Therapy Resistance Within the Tumor Microenvironment of Esophageal Cancer**

Department of Defense (US) to Lorenzo Ferri (PI) with Veena Sangwan, Swnecke Bailey, Jonathan Cools-Lartigue

US$ 1,200,048

**2019-2024: Co-Principal Investigator – Lead Investigator (Work Package 1) – Lorenzo Ferri**

"StOrmal ReprogramMing (STORMing) Provides New Directions to Prevent and Revert Chronic Inflammation-Associated Cancers"

Cancer Research UK (CRUK) Grand Challenge - £20,000,000

Researchers from the Division of Thoracic Surgery are part of a multinational team led by the University of California, San Francisco (UCSF), whose project was recently selected for funding through Cancer Research UK’s (CRUK) Grand Challenge competition – an international funding initiative that aims to address some of the biggest global challenges in cancer research. The multidisciplinary team will receive 20 million British pounds (nearly 34 million Canadian dollars) over four years to explore the links between chronic inflammation and cancer.

The project aims to find novel ways of treating cancer caused by inflammation and to develop new options to prevent cancer from developing in high-risk patients with chronic inflammatory diseases.

The team, which includes scientists, clinicians and patient advocates from the United States, Canada, Israel, and the United Kingdom, will focus its efforts on understanding how chronic inflammation drives some of the most aggressive forms of cancer.

2020-2023 Co-Investigator - Swnecke Bailey, Veena Sangwan, and Lorenzo Ferri

“Investigating the Molecular Determinants of Peritoneal Metastasis from Gastro-Esophageal Adenocarcinomas”

Canadian Institutes of Health Research Grant - $753,525

2020-2021 Principal Investigator – Jonathan Spicer

DISmantling COvid iNduced Neutrophil ExtraCellular Traps (DISCONNECT-I)

CQDM – Consortium de Recherche Biopharmaceutique $117,871 (CAD)

Montreal General Hospital Foundation $218,000 (CAD)

Roche Canada Inc $250,000 (CAD)
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<th>NAME</th>
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<tr>
<td>Yehonatan Nevo, MD</td>
<td>Yehonatan Nevo, MD (Spring 2020) completed the clinical component of this fellowship in August 2020 and began a year of research in the Thoracic Lab based out of the RI-MUHC. His research is focusing on modeling gastroesophageal adenocarcinoma chemoresistance in patient-derived organoids. Upon completion of his research year (August 2021) Yoni will return home to work at the Sheba Medical Center in Tel Hashomer, Israel as an Upper GI surgeon and member of staff in the Department of General and Surgical Oncology Surgery “C” where he will be able to share with his colleagues his new expertise in managing and operating malignant and benign upper GI surgeries.</td>
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<tr>
<td>Sevrin Schmid, MD</td>
<td>Sevrin Schmid, MD (Winter 2020) completed his fellowship in December and has started working as an Attending Surgeon in the Department of Thoracic Surgery at the University Medical Center at University Hospital Freiburg Germany where he has already began applying many of the skills he learned and perfected at McGill. Sevrin also had his defense for his “Habilitation” (a term that may not exist in Canada) and received his “Venia Legendi” and was appointed as Director of the Centre for Thoracic Tumors at the Comprehensive Cancer Centre Freiburg. He continues a scientific collaboration with McGill, Nancy/Strasbourg and centres from Italy which were established during his time in Montreal and to which he and the Division are currently planning a prospective multicentre trial.</td>
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<tr>
<td>Henna Soderstrom, MD</td>
<td>Henna Soderstrom, MD (Spring 2021) completed her fellowship in August and has started working as a consultant at Helsinki University Hospital Department of General Thoracic Surgery in her native Finland.</td>
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Urology

The Division of Urology is composed of 19 urologists, six PhDs and a dynamic training program with residents and fellows.

Despite the important restrictions created by the COVID-19 outbreaks, our Division had another very productive academic year with 134 publications and 4 book chapters. Our urologic research team, composed of clinician-scientists supported by six full-time academic researchers, have once again secured many large operating grants and continued to establish national and international research collaborations. Dr. Maurice Anidjar was promoted to Associate Professor and Dr. Sero Andonian and Dr. Cristian O’Flaherty were promoted to the status of Professor. We were very pleased to welcome our new recruit, Dr. Rafael Sanchez Salas who brings an extensive expertise in urologic oncology and the management of localized prostate cancer.

Our different hospitals continue to serve as important referral centers for complex tertiary urological pathology in oncology, reconstructive urology and BPH, stone disease, functional urology, infertility, and pediatrics. We continue to be at the forefront of clinical and research innovation, and promote interdisciplinary integrated care. Many of our members hold important leadership positions at the local, national, and international level.

Mohamed El Sherbiny, MD
Program Director

Simon Tanguay, MD
Division Director

Simone Chevalier, PhD
Research Director

Rafael Sanchez Salas, MD

We welcomed Dr. Rafael Sanchez Salas, Surgeon and clinician-scientist, whose primary interest is in minimally-invasive treatments in urological oncology.

He is an established leader in the field of focal therapy for the treatment of localized prostate cancer.
FACULTY ACHIEVEMENTS

Research:
- Dr. Armen Aprikian and Simone Chevalier, PhD obtained support from the Marathon of Hope-Terry Fox Canada to perform molecular and genomic characterization of lethal prostate cancer
- Dr. Kassouf is leading an International clinical trial through the Canadian Clinical Trials Group/Astra Zeneca; Randomized trial assessing trimodal therapy with or without adjuvant durvalumab to treat patients with muscle-invasive bladder cancer
- Dr. Maurice Anidjar is leading a clinical trial to evaluate the role of Transperineal Focal Irreversible Electroporation (IRE) for anterior intermediate risk prostate cancer

Education:
- Dr. Nader Fahmy: Everett Reid Teaching Excellence Award in Urology
- Dr. Melanie Aube-Peterkin: Integration of CBD feedback and evaluation style with new residents

Leadership Positions:
- Dr. Alice Dragomir: Director of the Réseau Québécois de recherche sur les médicaments.
- Dr. Armen Aprikian: Vice-President Canadian Urological Association
- Dr. Wassim Kassouf: Treasurer Canadian Urological Association
- Dr. Armen Aprikian: President of the Sexual Medicine Foundation
- Dr. Nader Fahmy, Member CME committee of Quebec Urological Association

Community involvement:
- Dr. Armen Aprikian:
  1. Founding member of Mashdots Foundation (dedicated to assisting university students in Armenia)
  2. Semerdjian Fund, Executive Committee (charitable funding to support Armenian students in health sciences)
- Dr. Jacques Corcos: Président de Mères du Monde en Santé Humanitarian Foundation.
- Dr. Simon Tanguay: Medical advisory Chair, Kidney Cancer Canada
- Dr. Aube-Peterkin: Board Member, Mères du Monde en Santé
- Dr. Kassouf: Past Chair Medical and Research Advisory Board, Bladder Cancer Canada

NOTABLE PUBLICATIONS


5. ŤMorel, KL.; ŤSheahan, AV.; Burkhart, DL.; Baca, SC.; Boufaeder, N.; Liu, Y.; Cañadas, I.; Roehle, K.; Heckler, M.; Calaguia, C.; Ye, H.; Pantelidou, C.; Galbo, P.; Panja, S.; Mitrofanova, A.; Wilkinson, S.; Whitlock, NC.; Trstel, SY.; Hamid, AA.; Kibel, AS.; Barbie, DA.; Choudhury, AD.; Pomerantz, MM.; Sweeney, CJ.; Einstein, DJ.; Shapiro, GL.; Dougan, SK.; Sowalsky, AG.; He, HH.; Freedman, ML.; Balk, SP.; Loda, M.; Labbé, DP.; Olson, BM.; Ellis, L. EZH2 inhibition activates a dsRNA-STING-interferon stress axis that potentiates response to PD-1 checkpoint blockade in prostate cancer. Nature Cancer, 2(4) (2021) 444-456


STUDENT SUCCESSES

- Maximilien Laviolette-Brassard, SMSNA student grant award (Drs. Carrier and Aubé Peterkin)
- Stephanie Sirmakesyan MSc candidate, Best Poster, Multidisciplinary Benign Urology Research Symposium (Dr. Campeau)
- Aalya Hamouda MSc candidate, CIHR & Diabete Quebec awards (Dr. Campeau)
- Benjamin Desormeau MSc Candidate, Bio-Talent Student Work Placement bursary (Dr. Campeau)
- Janie Larocque (M.Sc.): M.Sc. Studentship – CIHR (Dr. Labbé)
- Anna de Polo Post Doc, Marie Curie Action Award (Dr. Labbé)
- Michelle Shen (M.Sc.): M.Sc. Studentship – (CIHR) (Dr. Labbé)
- Michelle Shen (M.Sc.): Bourse de Formation Maîtrise - (FRQS) (Dr. Labbé)
- Léa-Kristine Demers (M.Sc.): Bourse de Formation Maîtrise – (FRQS) (Dr. Labbé)

GRADUATING RESIDENTS

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<th>NAME</th>
<th>CURRENT POSITION</th>
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<tr>
<td>Wael Almajed, MD</td>
<td>Fellowship in Andrology at Tulane University, New Orleans, LA.</td>
</tr>
<tr>
<td>Alexandrine da Silva, MD</td>
<td>Verdun Hospital</td>
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<td>Christian Diab, MD</td>
<td>Hopital Pierre Boucher</td>
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GRADUATING FELLOWS

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<tr>
<td>Mohammad Alkandari, MD</td>
<td>2 year Urology Infertility and Andrology Fellowship</td>
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<tr>
<td>Nawal AL Sharji, MD</td>
<td>Pediatric Urology Fellowship</td>
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<tr>
<td>Ahmed Ibrahim, MD</td>
<td>2 year Sexual Medicine/Male Genito-Urinary Dysfunction and Reconstructive Urology Fellowship</td>
</tr>
<tr>
<td>Gautier Marcq, MD</td>
<td>2 year Urologic Oncology Fellowship</td>
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Vascular Surgery

The McGill Division of Vascular Surgery is comprised of ten vascular surgeons. Drs. Kent MacKenzie, Oren Steinmetz, Heather Gill and Robert Doonan, all based at the MUHC Glen Site, provide Vascular Surgery services for all pavilions of the MUHC, while Drs. Daniel Obrand, Jason Bayne and Elie Girsowicz practice primarily at the Jewish General Hospital. All seven of these surgeons work in a collaborative manner across the two hospital systems and provide on-call consultancy service and back-up to both sites.

Drs. Stephen Hanley and Patrice Nault each provide Vascular Surgical care for a large patient population at the Hôpital de Hull, CISSS de l’Outaouais, Gatineau, Quebec and Dr. Carl Emond continues to practice Vascular Surgery at St. Mary’s Hospital in Montreal. All surgeons participate in the education of medical students, surgery residents and vascular surgery trainees. All of our sites currently offer comprehensive vascular surgical care with the MUHC being the primary site for open thoracic and thoracoabdominal aneurysm surgery, and we collaborate with cardiac surgery to provide complex hybrid endo, open repair of select aortic arch pathology. The surgeons at the MUHC and the JGH have an extensive endovascular aortic and peripheral practice, including the treatment of PVD, aortic aneurysm, aortic dissection, and aortic trauma. The JGH site has a concentrated practice for advanced endovascular aortic repair with a large institutional experience in branched (BEVAR) and fenestrated (FEVAR) endovascular aneurysm repair. The Division supports a well-respected Vascular Surgery Residency program, and internally funds an Advanced Aortic and Peripheral Endovascular Fellowship. Graduates from both training programs have become leaders in Vascular Surgery in Canada and Internationally. In the past five to seven years the Division has been proactive in advancing our research mission. We’ve allocated internal Division funds for a full-time research coordinator, and have directed and supported specific recruitment strategies to enhance our research productivity. This has resulted in a step-wise increase in annual peer-reviewed publications, awards and grant success. Our current focus in research centers on clinical outcomes in aortic surgery, peripheral endovascular intervention, as well as the assessment of Frailty and the use of Prehabilitation in the vascular surgery population. Dr. Heather Gill is currently a co-supervisor for Ph.D candidate, Miquel Coco-Martinez, MD, in his work regarding Prehabilitation in Vascular Surgery Patients. All our current residents and fellows are involved in investigator-initiated research under the supervision of our Faculty members. A new Endovascular Simulation Center has been developed at the JGH, led by Vascular Surgery in collaboration with cardiac surgery and cardiology. This has become a key unit for educational and research activity in simulation for the Division. Formal monthly endovascular simulation sessions are now included as part of the vascular surgery residents’ curriculum. Dr. Elie Girsowicz is currently supervising a M.Sc. student who is conducting a simulation research protocol within the simulation unit. In 2020, in response to the challenges of the COVID-19 pandemic, the Division of Vascular Surgery established a new on-line visiting speaker program, and by the end of 2021 hosted eight exceptional speakers from around the world. This speaker series has garnered interest within the broader McGill community, as well as internationally, and we have utilized Social Media to advertise and offer attendance to a broader group of vascular surgeons from other sites in both North America and Internationally. This new initiative continues moving forward and we expect to welcome many more of our trusted colleagues from around the world. Hopefully back in person in the near future!
LEADERSHIP TEAM

Kent MacKenzie, MD
Division Director

Jason Bayne, MD
Program Director

Heather Gill, MD
Research Director

DIVISION ACHIEVEMENTS

1. New MUHC Vascular Surgery Prehabilitation Research Unit
   - June 2021
   - $1,300,000.00 over 3 years

2. Principle Site Investigator, McGill: BEST-CLI Trial, Best Endovascular Versus Best Surgical Therapy in Patients with Critical Limb Ischemia.
   - Initial REB Approval Date: February 2, 2015; Last approval December 31, 2018
   - BEST Sponsor: NIH
   - Funding: $142,025


4. Acquisition of high-fidelity endovascular simulator at the Jewish General Hospital

LEADERSHIP ROLES

Dr. Heather Gill:
1. Chair, CSVS Research Committee
2. Royal College Specialty Committee, Vascular Surgery

Dr. Jason Bayne:
Royal College Specialty Committee, Vascular Surgery

TEACHING AWARDS

Dr. Daniel Obrand
Harvey Sigman Undergraduate Teaching Award

Dr. Heather Gill
2021 TCP Surgery Outstanding Teaching Award
NOTABLE PUBLICATIONS


VISITING PROFESSORS

- Dr. Adam Power, Western University
- Dr. Fabian Thaveau, Université Strasbourg
- Dr. Vanetta Chandra, Stanford University
- Dr. Ali Bessissow, McGill University

STUDENT SUCCESSES

CSVS 2021 National Student Research Award. Ezra Schwartz, MD (Candidate) McGill University. Project “Predictive Factors For Post-Operative Type IB Endoleak: A Case-Control Study” $2000

GRADUATING RESIDENTS

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<tr>
<th>NAME</th>
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<tbody>
<tr>
<td>Saad Bin Ayeed, MD</td>
<td>Fellowship, Halifax, Nova Scotia</td>
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<tr>
<td>Robert J. Doonan, MD</td>
<td>Fellowship, Liverpool, UK</td>
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GRADUATING FELLOW

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<th>NAME</th>
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<tbody>
<tr>
<td>Hashem Hayeq, MD</td>
<td>Head of Advanced Aortic Interventions, Vascular and Endovascular Surgery Department, Carmel Medical Center, Haifa, Israel</td>
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