Introduction

This report will highlight the significant achievements and activities of our Department during the 2013 calendar year. Some portions will reference the academic year (2013-2014) because of its more direct relevance to the McGill teaching schedule. We are pleased to report a significant increased academic productivity with respect to publications and grants. Pedagogical changes primarily involved the new undergraduate medical curriculum including newly structured lectures and seminars. Clinical activities and teaching were conducted at each of the major McGill hospital sites (RVH, MGH, JGH, and MCH) in accordance with Royal College requirements. The theme of clinical transition continued with respect to the preparations for the MUHC move its new Glen site.

Please refer to the Departmental website at www.mcgill.ca/ent for a listing of staff, administrative structure and committees. The website contains information on educational activities, research, fundraising and alumni activities. The Department underwent a McGill Annual Review in the year 2013-2014 and a brief report with update is included.

1. Research and publications

• Significant conference presentations, invited lecturerships and keynote lectures: Select international and national presentations are hereby listed:

Lehmann, A.; Schönwiesner, M.; Rainville, P. Cross modal interactions between audition and nociception. The Association for Research in Otolaryngology Winter Conference 2013, Baltimore.


Nguyen LHP, Bank I, Fisher R, Ramadori F. Using Medical Simulation to Teach Pediatric Airway Management: A Four-Year Curriculum. American Society of Pediatric Otolaryngology annual meeting in Arlington, USA April 2013

Fisher, R, Bank I, Nguyen LHP, Azzam M*, Young M. Examining Inter-Specialty Crisis Resource Management through the Creation and Implementation of a Simulation-Based Course for Pediatric Emergency Medicine, Anesthesiology and Otolaryngology – Head and Neck Surgery Residents International Pediatric Simulation Symposia and Workshops annual meeting in New York City, USA April 2013


Payne R. World Thyroid Congress, MTNS+ - Does it work? Is age associated with risk of malignancy in thyroid cancer? MTNS and Extra Thyroidal Extension – Is there a link?


Schloss, M Grand Rounds Presentation on Pediatric Otology. Tel Aviv Sourkys Medical Centre. December 31, 2013


- Research grants held by the Department in the year 2013 amounted to $12,489,836: A full listing can be found at the following URL: https://www.mcgill.ca/ent/research/research-grants-2013
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- Research Grants newly awarded in 2013:


FRNT, Team Simuluateur numérique pour la conjucaison de phase magnéto-acoustique appliquée à Métrologie fluidique.E. Timoveev, Dr. Frost and L. Mongeau April 2013 – March 2016 $126,000

Calcul Canada – Annual resources allocation 85 core years on Gillimin, 75 core years on Briaree, 200 core years on MP2, 20 GPU core years on Angel

Dr. Luc Mongeau January 1, 2013 – December 31, 2013 $150,000

NSERC-RTI Equipment for integration and packaging of biomedical and biosensing systems Chodavarapu PI, Trifiro, Liu, Mongeau April 2013 – March 2014 $107,499

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CFI-LOF Infrastructure for the optical and mechanical characterization of vocal fold tissue at the micrometer and Nanometer scales Chodavarapu PI, Trifiro, Liu, Mongeau April 2013 – March 2014 $500,000


Millennium Research Award: Animal model of chronic Rhinosinusitis, from the MUHC Research Institute, Dr. Marc Tewfik $25,000

Educational grant: North American Master Class of Sinus Surgery and Endoscopic Management of Vascular Injuries Workshop, from Storz, Dr. Marc Tewfik $5,000

PI: Jan 14th 2013- Jul 14th 2014: NSERC Idea to Innovation (i2i) Project (I2IPJ437383-12) Dr. H. Galiana $122,800
Smart & automatic analysis of ocular nystagmus, for the tracking of patients and astronaut health.

PI : 2014-2019 NSERC Discovery Grant (requested $104,625/yr average in Fall 2013 competition) Dr. H. Galiana
Towards biomimetic control of robotic or paralyzed limbs - Awaiting decision in Feb 2014

NSERC "Wireless radio-frequency communication" PI: Segal B, with 8 others. Peer-reviewed CRD-176440 residual transferred to OTL fund 00250 for holding: $16,634

Canadian Institute of Health Research (CIHR) Operating Grant, Title of project: Mechanics of the outer and middle ear in newborns and infant, Role: Dr. Sam Daniel , Co-Principal Investigator with Dr. Robert Funnell. Primary Institute: Neurosciences, Mental Health and Addiction, Funding amount: $655, 220, Funding Period: October 2013 to September 2018

- The McGill Head and Neck Cancer Fund (Departmental Fund) provided a total of $245,299 to support research and academic activities in 2013. Specific laboratory and salary support is hereby listed:

- Departmental publications including books, chapters, peer-reviewed journal articles, conference proceedings, abstracts and media presentations: In the year 2013, there are 151 citations itemized including 5 textbook chapters, 113 peer-reviewed manuscripts, 20 abstracts and 13 electronic chapters. A full listing can be found at the following URL: https://www.mcgill.ca/ent/publications/2013

2. Teaching and learning (undergraduate and graduate)

Undergraduate (Committee co-chairs: Dr. Lily Nguyen and Dr. Marc Tewfik)
- McGill will be hosting the Canadian Conference on Undergraduate Medical Education in OTL/HNS on November 8th, 2014. The theme for the meeting in web based and simulation based learning for medical students.
- The department is an active contributor to the national bank of Exam questions and database of teaching cases which will be incorporated into an educational app called “iLearn ENT”.
- New medical school curriculum will take effect in the fall 2014. The department will be involved in the following curriculum items:
  - Fundamentals of Medicine (17 hours of lectures, one small group session, 7 anatomy lab demonstrations)
  - Transitions to clinical practice (Students shadowing, airway course, surgical skills week)
  - Clerkship (2 hours of lectures and surgery, 1 hour lecture and family medicine, 1 hour lecture in pediatrics, online facial/temporal bone trauma case, shadowing of students during family medicine rotation, supervision of homework assignments)
- Electives rotating last year included 11 McGill, 6 Canadians, and 10 International students. Otolaryngology was selected as a surgical sub specialty for 15 McGill senior clerkship students.

Residency Training Program (Director: Dr. J. Manoukian)
- The department received “Full approval” for the residency training program from the Royal College of Physicians and Surgeons of Canada in the year 2013.
- There are presently 20 residents enrolled in the program with 4 in each year of training.
- Five graduating residents were successful in passing their Royal College exams: Dr. Yaseen Ali, Dr. Yaseed Al-Ghonaim, Dr. Tamara Mijovic, Dr. Alipasha Rassouli, Dr. Rania Ywakim.

At the Resident Research Day Competition to complete the 2013-2014 academic year, the following prizes were awarded:

- William H. Novick Canneds Resident Award: Dr. Carol Nhan
- The Grand Rounds Resident Awards:
  - Junior Resident Award (tie): Dr. Jospeh Saliba, Dr. Michael Roskies
  - Senior Resident Award (tie): Dr. Rickul Varshney, Dr. Faisal Zawawi
- Best Resident Research Presentations:
  - Medical Student Research: Dr. Sarah Hosseini
  - Junior Resident Research: Dr. Michael Roskies
  - Senior Resident Research: Dr. Rickul Varshney
- Melvin Mendelson Temporal Bone Drilling Award (tie): Dr. Amanda Fannous, Dr. Abdullah Al-Bader

The following educational courses for residency training were offered in 2013:

- Facial Plastics course. McGill SIM Center. Dr. Nabil Fannous.
- Laryngology Course. Dr. Karen Kost
- Basic Multidisciplinary Airway Course. McGill SIM Center. Dr.L. Nguyen.
- Resident Research Day. Dr. Manoukian.
- Ethics/Communication Skills teaching. Simulation Center. Dr.J. Rappaport, Dr. L. Nguyen.
- Maxillofacial Plating Course, Dr. A. Mlynarek.
- Head and Neck Anatomy teaching to McGill’s Medical students. McGill Anatomy Lab. Dr. L. Nguyen
- R2’s Introduction to Otology/ Audio vestibular evaluation. Dr. Robert Sweet. August 20th & 27th, 2013
- R3’s Advanced Airway Basics Course. McGill SIM Center. Dr. Lily Nugyen. v 4-5, 2013
- R4’s interspecialty Crisis Resource Management Courses. Dr. Lily Nugyen

Departmental named lectureships and visiting professorships during 2013:

- 15th Annual Raymer Family Lectureship. Dr. John White. Vitamin D in the lab and in the clinic. May 9th, 2013.
- 17th Annual McNally Lectureship. Dr. J. Robert Funnell. Biomedical Engineer, OTL/McGill. Mechano-acoustical measurement and modeling gin OTL. November 7th, 2013

**Fellowship Training (Director: Dr. J. Rappaport)**

**Fellowships 2012-2013**
- Dr. Madana Jeevanadam (Head and Neck)
- Dr. Constanza Valdez (Rhinology)
- Dr. Alissa Kanaan (Pediatrics)

**Fellowships for 2013-2014**
- Dr. Andrea Darnbrough (Laryngology)
- Dr. Madana Jeevanadam (Head and Neck – microvascular) 2nd year
Post-Graduate Education (Director: Dr. B. Segal)

- There were 23 MSc (Otolaryngology) students enrolled in the year 2013.
- Four MSc theses were granted- Dr. Nathan Jowett, Dr. Hani Al-Marzouki, Dr. Keith Richardson and Mario Mujica.
- Courses taught:
  - OTOL-602 Physiology, Histopathology and Clinical Otolaryngology 1, OTOL-603 Advanced Scientific Principles of Otolaryngology 1, OTOL-612 Physiology, Histopathology and Clinical Otolaryngology 2.
- Awards to Masters students:
  - Mijovic, T FRSQ Masters Training Award for medical professionals 2013 $25,024
  - Jowett, N German Academic Exchange Service (DAAD) 2013 $13,700
  - Morand, G Swiss Cancer League Training Grant 2013 $42,000
  - Jowett, N Frank Litvack Fellowship (McGill) 2012-13 $50,000

Teaching initiatives and innovations

- The Department hosted four International CME courses in 2013
  - 18th Annual McGill University Update in Otolaryngology- Head & Neck Surgery (Course directors: Drs. K. Kost, J. Rappaport, M. Hier)
  - North American Master Class in Endoscopic Sinus Surgery (Course director: Dr. Marc Tewfik)
  - North American Endoscopic Management of Vascular Injuries Workshop (Course director: Dr. Marc Tewfik)
  - International Pediatric Otolaryngology Update Course
- CME Courses (Director: Dr. T. Tewfik)
  - Pediatric OTL: Case presentations. Dr. Lily H. Nguyen. Nov. 13th, 2013
- Creation and validation of a virtual reality simulator of Endoscopic Sinus Surgery for Residency training
- Establishment of a Cadaver Endoscopic Sinus surgery work station in the Strathcona Anatomy lab (Dr. M. Tewfik)
- Development of an iPad App for Medical students entitled “iLearn ENT” (Drs. L. Nguyen, M. Tewfik)
- Creation of an iPad App for General Practitioners entitled “Sinusitis Tool box” (Dr. M. Tewfik)
- Initiation of a new fellowship program in Comprehensive Management and Reconstruction of Facial Cutaneous Malignancies
- Development of a hands-on teaching tool for microsurgery of the larynx (Dr. K. Kost)

3. Involvement in the community (Significant activities and positions held by departmental staff)

- **Departmental Fundraising**: The 19th Annual McGill Head and Neck Cancer Gala Event was held on June 11th, 2013 and honored the Argento Family. An amount of $450,000 was raised to benefit the McGill Head & Neck Cancer Fund. A special project to develop the McGill Thyroid Cancer Program was launched incorporated its own fundraising mechanism. The fundraising effort was organized and chaired by Dr. Saul Frenkiel.
- **Dr. M. Black Consultant**: Jewish Eldercare Centre and Maimonides Geriatric Centre
- **Dr. A. Katsarkas**: Every Saturday on the Greek radio with two presentations: 1) on medical issues; 2) on scientific, historical, political issues.
- **Dr. Bernard Segal**: Member, Electromagnetic Compatibility Committee, Radio Advisory Board of Canada
- **Dr. M. Schloss**: Member, McGill University Senate
- **Dr. K. Kost**: President, Canadian Society of Otolaryngology- Head & Neck Surgery, President, American Society of Geriatric Otolaryngology
- **Dr. W. Novick**: Served as a Canadian Bomber Pilot in World War II and participated in the D-day Celebrations in Dieppe, France
- **Dr. Sam Daniel**: CPD/CME educator for Quebec, Royal College of Physicians & Surgeons of Canada, President elect, Société Internationale Francophone d’ORL, Director of CME FMSQ
- **Dr. F. Chagnon**: Quebec Regional Representative, Royal College of Physicians & Surgeons of Canada
- **Dr. A. Mlynarek**: Executive member & CME Director, Association ORL du Quebec
4. Milestones: New additions to Departmental Staff

Dr. Alexandre Lehmann PhD, Assistant Professor, Research
Dr. Keith Richardson, Assistant Professor, CAS
Dr. Veronique Forest, Assistant Professor, CAS
Dr. Luc Monette, Lecturer, CAS part-time
Dr. Miltiadis Paliouras PhD, Research part-time

5. Honors, awards, and prizes

Henry, M. Poster nominated for the Best Poster Award competition with associated invited oral presentation, International Psycho-Oncology Society (IPOS) Title: Myth or Reality: Are Head and Neck Cancer Patients at Increased Risk for Suicidal Thoughts and Gestures?

Schloss, M Medical Award of Excellence Montreal Children’s Hospital Foundation. 2013.

Schloss, M Visiting Professor at Department Otolaryngology American Hospital, Dubai, UAE, June 10, 2013.

Tewfik, M. Award for Outstanding teaching by McGill OTL residents for 2013

Nguyen, L. Recipient, Jonathan Campbell Meakins and Family Memorial Fellowship Fellowship (5000$) given annually to a member of the Faculty of Medicine, McGill University, to award and promote educational excellence in medical education.

Nguyen, L. Second place for Best Poster Award with Dr D Ho-Wo-Cheong. Annual Conference, Canadian Society of Otolaryngology – Head and Neck Surgery * medical student supervised, June 2013

Daniel, S. Research Award Chair, IMS Brogan competition for best pharmacotherapy publication, April 9 2013.

Daniel, S. Honourable Mention Award for Triological thesis on “Outcomes of an Innovative Ambulatory Minimally Invasive Botulinum Toxin A Injection Technique in a Cohort of Drooling Children”

Daniel, S. Royal College of Physicians and surgeons continuing Professional Development Innovation Award, for project on the Interdisciplinary Day

Daniel, S. First Prize, 4th Annual H Bruce Williams Pediatric Surgery Research day for ototoxicity research presented by Dr Sofia Waissbluth (PhD student)

6. Current Departmental Initiatives

- Development of a McGill Thyroid Cancer Program (Dr. S. Frenkiel)
- Introduction of office based laser surgery for Laryngeal lesions (Dr. K. Kost, Dr. J. Young)
- Development of outpatient endoscopic sinus surgical procedures under local anesthesia (Dr. M. Tewfik, Dr. S. Frenkiel)
- Initiation of a Head & Neck Surgical Robotics Program (Drs. M. Hier, A. Mlynarek)

7. Academic Unit Review (Summary report and progress)

The Department underwent a Cyclical Review in the year 2013-2014 with a site visit on February 10-11, 2014. The Review Committee recognized our Department for “Strong teaching and clinical programs and a strong commitment to research”. The committee recognized our department as “one of Canada’s premier Departments in the field”. We were acknowledged for our international reputation in research and for our educational program as having “world class status”.

The weaknesses and concerns as identified by the committee are hereby listed with commentary on progress to date.

- Absence of a Cochlear Implant program – this represents a political decision by the Quebec Minister of Health. We have submitted a request for the Ministry to reverse its negative decision.
- Lack of clinical resources at hospital sites with respect to nursing, secretarial support, outpatient clinic, and operating room constraints- we consider this a glacial issue due to lack of available resources in the health care sector. Moving the MUHC department to the new GLEN site should elevate some of these concerns.
- Additional guidance for residents during their research component of training is currently being addressed by the department’s research committee. Research supervisors and research projects will be closely monitored. The department will also be hiring an Epidemiologist/Statistician to help with our research program
The Residency Training Committee is actively discussing the timing and format of teaching seminars for the next academic year in order to minimize travel time for students who need to arrive from different hospital sites. The department will consider a system to webcast lectures which is already being done for Grand Rounds.

In order to elevate anxiety with respect to the move to the GLEN site, the departmental chair has established a network of internal committees to deal with the transition process.

Respectfully submitted,

Dr. Saul Frenkel
Professor and Chair
Department of Otolaryngology – Head and Neck Surgery
June 27th, 2014