a. Executive Summary

The Department of Microbiology and Immunology at McGill is an academic department within the Faculty of Medicine whose mission is to foster and nurture outstanding research and education in the area of Infection and Immunity while providing administrative service to the McGill community and beyond. The department is the primary administrative home of 19 faculty members whose research operation takes place in different research groups or centers within McGill and affiliated hospitals and institutes. The department also coordinates education in the different aspects of Microbiology and Immunology through an extensive participation in undergraduate and graduate education programs within the Faculties of Medicine and Science, medical and other professional programs, and post-graduate education and training activities.

2011 has been a very significant year in the life of the Department of Microbiology and Immunology at McGill. Significant events that occurred in this year can be grouped in three major areas: departmental membership renewal, strategic positioning of the department, and redevelopment of the physical environment.

Membership renewal
In terms of human renewal, the following key events happened in 2011:

- arrival of a new chair of the Department, Dr. Joaquín Madrenas, who relocated from the Robarts Research Institute and The University of Western Ontario and started as full professor and chair in August 1, 2011;
- retirement of two professors from the department (Drs. Zafar Ali-Khan and Malcolm Baines) on August 31, 2011;
- initiation of recruitment drive with hiring of Dr. Connie Krawczyk, who started as a tenure track assistant professor in April 1, 2011 and with selection phase for 3 additional recruits to arrive in the late 2012 and early 2013;
- recruitment of a departmental secretary Ms. Ireini Ghobri;

Strategic positioning of the department
During 2011, and compounded by the arrival of a new chair, an extensive strategic analysis of research, teaching and administrative activities of the department was undertaken, and has resulted in:

- promoting multidisciplinary and collaborative initiatives that enhance research activities within the department, e.g., CFI initiatives, multi-investigator grant proposal, etc.;
- streamlining of working departmental committees (undergraduate education, graduate and post-graduate studies, seminars, core facilities, merit evaluation, and tenure committees);
- establishing of policies and procedures that facilitate academic, administrative and technical activities in the department;
- stabilizing the financial base of the department and recovering from accrued debts;
- developing partnerships with external corporations to enhance and support academic activities;
- proactively recognizing outstanding achievements and excellence of departmental members;
- developing research support platforms for departmental members and collaborators (e.g., expanded flow cytometry core facility, centralized glassware washing and autoclaving, etc.).
**Redevelopment of the department’s physical environment**

Following extensive assessment of the state of the Duff Medical Building, which houses the administrative and teaching facilities of the department and 70% of the members of the department, McGill embarked into a functional and technical analysis of redevelopment for this building. Dr. Madrenas acted as representative of the occupants of the building in an infrastructure and facilities committee that reviewed architectural proposals and selected the architectural firm to proceed with this analysis, a milestone completed in early fall 2011. It is expected that this exercise will lead to a fully redeveloped Duff Medical Building by early 2016.

**Significant accomplishments**

The commitment and performance of the members of the Department of Microbiology and Immunology to academic excellence, as part of the mission of the department, are well illustrated by the standard metrics of scholarly performance for the department, i.e., research grants, publications, education, knowledge translation and community outreach. A detailed list of these achievements is included in the report that follows this summary. A few significant accomplishments are:

- Promotion to full professorship of Drs. Silvia Vidal and Matthias Götte
- Renewal of the Tier I Canada Research Chair assigned to Dr. Silvia Vidal
- Honorary Doctorate in Medicine from the Faculté de Médecine de l'Université de Montréal to Dr. Mark Wainberg
- Induction of Dr. Mark Wainberg to Fellowship of the American Association for the Advancements of Science
- Induction of Dr. Joaquín Madrenas to the Canadian Academy of Health Sciences
- First and second prizes at the 2011 McGill Undergraduate Research Conference for two Microbiology and Immunology undergraduate students: 1st Prize in Biological Sciences for Ms. Kristina Salmon (Supervisors Drs. Hervé Le Moual and Samantha Gruenheid) and 2nd Prize in Medical Sciences for Mr. Raphaël Brisset Di Roberto (Supervisor Dr. Benoit Cousineau)
- Awarding of a patent to Dr. Robert Murgita
- Awarding of over $4 million in peer reviewed funding to primary members of the department
- Publication of over 90 research papers and book chapters with an annual accumulated impact of over 600.

**Challenges**

2011 also provided an opportunity to identify key challenges ahead of us:

- renewal, innovation and sustainability of educational programs at the undergraduate and graduate levels emphasizing problem solving research strategies and life-long learning;
- building departmental identity towards recognition of the department as one of the top 10 departments of Microbiology and Immunology in the world;
- creation of a working environment that identifies and nurtures individual abilities and is prepared to confront administrative challenges;
- promotion of multi-disciplinary, trans-departmental research environments that optimize creativity and maximize resource allocation and accessibility;
- successful completion of recruitment and space renovation projects.
Section I- Overview

a. Faculty Listing

1. List of Faculty members with primary appointments in the Department

Professors
Dr. Joaquin Madrenas (Chairman, 2011-present)

Dr. Albert Berghuis  Dr. Robert Murgita
Dr. James Coulton  Dr. Martin Olivier
Dr. Matthias Götte  Dr. Silvia Vidal
Dr. Greg Matlashewski  Dr. Mark Wainberg

Associate Professors
Dr. Dalius Briedis  Dr. Greg Marczynski
Dr. Benoit Cousineau  Dr. Ciriaco Piccirillo
Dr. Sylvie Fournier  Dr. Donald Sheppard
Dr. Herve Le Moual

Assistant Professors
Dr. Jörg Fritz
Dr. Samantha Gruenheid
Dr. Connie Krawczyk

2. List of Faculty with secondary appointments

Adjunct Professors
Dr. Jacques Archambault  (Institut de Recherches Cliniques de Montréal, IRCM)
Dr. Jones David  (ID Biomedical Corporation, Montreal, QC)
Dr. Albert Descoteaux  (Institut Armand Frappier, Université du Québec, INRS)
Dr. Andres Finzi  (Centre de Recherche du CHUM, Université de Montréal)
Dr. Byong Lee  (Sheldon Biotechnology Centre, McGill University)
Dr. Shan-Lu Liu  (Bond Life Sciences Center, University of Missouri)
Dr. Allan Matte  (Macromolecular Structure Group, Biotechnology Research Institute, National Research Council of Canada)
Adjunct Professors (cont'd.)

Dr. Suh Woon-Kyang  (Institut de Recherches Cliniques de Montréal, IRCM)
Dr. Dan Zilberstein  (Faculty of Biology, Technion – Israel Institute of Technology)

Affiliated Members

Dr. Maziar Divangahi  (Meakins-Christie Laboratories, McGill University)

Associate Members

Dr. Jack Antel  (Department of Neurology, Montreal Neurological Institute)
Dr. Amit Bar-Or  (Department of Neurology, Montreal Neurological Institute)
Dr. Marcel Behr  (Division of Infectious Diseases and Medical Microbiology, Montreal General Hospital)
Dr. Miguel Burnier  (Chair, Department of Ophthalmology, McGill University)
Dr. Nicholas Christou  (Department of Surgery)
Dr. Ines Colmegna  (Department of Medicine, Royal Victoria Hospital)
Dr. Andre Dascal  (Senior Physician, Jewish General Hospital)
Dr. Florence Dzierszinski  (Institute of Parasitology, MacDonald Campus)
Dr. Anne Gatignol  (Lady Davis Institute for Medical Research)
Dr. Philippe Gros  (Rosalind and Morris Goodman Cancer Research Centre)
Dr. Sabah Hussain  (Critical Care Division, Royal Victoria Hospital)
Dr. Armando Jardim  (Institute of Parasitology, MacDonald Campus)
Associate Members (cont’d.)

Dr. Lawrence Kleiman (Lady Davis Institute for Medical Research)
Dr. Antonis Koromilas (Department of Oncology, Lady Davis Institute for Medical Research)
Dr. Arnold Kristof (Critical Care Division, Royal Victoria Hospital)
Dr. Richard Lalonde (McGill AIDS Centre)
Dr. Chen Liang (Lady Davis Institute for Medical Research)
Dr. Vivian Loo (Department of Medicine, Division of Infectious Diseases, Montreal General Hospital)
Dr. Amee Manges (Department of Epidemiology, Biostatistics and Occupational Health)
Dr. Jack Mendelson (Department of Medicine, Jewish General Hospital)
Dr. Mark Miller (Department of Medicine, Jewish General Hospital)
Dr. Andrew Mouland (HIV-1 RNA Trafficking Laboratory, Lady Davis Institute for Medical Research)
Dr. Jay Nadeau (Biomedical Engineering, McGill University)
Dr. Momar Ndao (Department of Medicine, Division of Infectious Disease)
Dr. Marianna Newkirk (Division of Rheumatology, Montreal General Hospital)
Dr. Dao Nguyen (Department of Medicine, Montreal General Hospital Research Institute)
Dr. Kostas Pantopoulos (Lady Davis Institute, Jewish General Hospital)
Dr. Joyce Rauch (Department of Rheumatology, Montreal General Hospital)
Associate Members (cont'd."")

Dr. Michael Reed (Medicine, Infectious Diseases, Montreal General Hospital)
Dr. Anna Paula Ribeiro (Institute of Parasitology, MacDonald Campus)
Dr. Stephane Richard (Lady Davis Institute, Jewish General Hospital)
Dr. Petra Rohrbach (Institute of Parasitology, MacDonald Campus)
Dr. Maya Saleh (Department of Medicine, McGill Life Science Complex)
Dr. Michel Tremblay (Rosalind and Morris Goodman Cancer Research Centre)
Dr. Christos Tsoukas (Immune Deficiency Treatment Centre – IDTC, Montreal General Hospital)
Dr. Bernard Turcotte (Hormones & Cancer Research Unit, Department of Medicine)
Dr. Brian Ward (Montreal General Hospital)
Dr. Ji Zhang (Biomedical Sciences, Faculty of Dentistry)
Summary

Of the 19 primary Departmental academic members, 8 receive salary support from FRSQ (3) or from the Canada Research Chair Program CRC (5) reducing the impact of academic salaries on the McGill budget. One Professor receives a Dawson award to a level approximately equivalent to that of Tier 2 CRC awards. Virtually all our Professors (85%) have one or more research grants from FRSQ, NSERC, CIHR, NIH, or private foundations to support their research projects and trainees. These grants totaled $15,376,325. Our faculty members published 90 scholarly articles in peer-reviewed journals from January to December 2011 with a total impact factor of 546.313 (please see below for the list of publications). All presented their research to numerous scholarly meetings, received awards and contributed to their respective academic and research institutions.

a. Awards

<table>
<thead>
<tr>
<th>Dr. Albert Berghuis</th>
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</thead>
<tbody>
<tr>
<td>• Tier 1 Canada Research Chair in Structural Biology (7 year award), 2009.</td>
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<table>
<thead>
<tr>
<th>Dr. James Coulton</th>
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<tbody>
<tr>
<td>• Awarded six-month sabbatical leave by McGill University beginning January 2011 and extended to August 2011.</td>
</tr>
<tr>
<td>• Visiting Professor, The Leverhulme Trust, UK; award to J.W. Coulton for accommodation and transportation expenses while on sabbatical leave (April to August 2011), The University of York.</td>
</tr>
<tr>
<td>• Distinguished Visitor, The University of York, award to J.W. Coulton for research costs and living expenses while on sabbatical leave (April to August 2011).</td>
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<table>
<thead>
<tr>
<th>Dr. Benoit Cousineau</th>
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<tbody>
<tr>
<td>• William Dawson Scholar Award (06/2008 to 06/2013).</td>
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<tr>
<td>• Chercheur-Boursier Senior FRSQ (07/2009 to 07/2012).</td>
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<tr>
<td>• Hugh and Helen McPherson Award (McGill University) (07/2008 to 07/2011).</td>
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<tr>
<th>Dr. Matthias Gotte</th>
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<tbody>
<tr>
<td>• Career award (Chercheur-boursier Senior) - Fonds de la recherche en santé (FRSQ) - Title: Molecular mechanisms involved in delayed chain-termination - Term: 01/07/2009 - 31/06/2013</td>
</tr>
</tbody>
</table>
Section II - Research

<table>
<thead>
<tr>
<th>Dr. Samantha Gruenheid</th>
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<tbody>
<tr>
<td>• Tier 2 Canada Research Chairs Amount: $100,000/year Chair: Renewal 2010-2015.</td>
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<table>
<thead>
<tr>
<th>Dr. Joaquin Madrenas</th>
</tr>
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<tbody>
<tr>
<td>• Tier 1 Canada Research Chair in Immunobiology (resigned in 2011 to move to McGill) 2007-14.</td>
</tr>
<tr>
<td>• Schulich Dean's Award of Excellence - Team Award for the Canadian R&amp;D Centre for Probiotics, 2011.</td>
</tr>
<tr>
<td>• Inducted to the Canadian Academy of Health Sciences in 2011.</td>
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<tr>
<th>Dr. Ciro Piccirillo</th>
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<tbody>
<tr>
<td>• Tier 2 Canada Research Chair, in Regulatory Lymphocytes of the Immune System, (2009-2014).</td>
</tr>
<tr>
<td>• Research Excellence Fellowship MUHC-MGH Foundation, (2010-2011)</td>
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<tr>
<th>Dr. Donald Sheppard</th>
</tr>
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<tbody>
<tr>
<td>• FRSQ Chercheur-Clinicien Junior II- Role: Principal Investigator (Term 7/1/2011-7/1/2012, 34,000/yr)- Title: Le role du development dans le virulence de la moisissure Aspergillus fumigates</td>
</tr>
<tr>
<td>• Clinician Scientist Award Phase II, Canadian Institutes of Health Research- Role: Principal Investigator (Term: 7/1/2008-7/1/2011, 60,000/yr) - Title: Identification and characterization of genes of Aspergillus fumigatus important in virulence.</td>
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<table>
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<tr>
<th>Dr. Silvia Vidal</th>
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<tbody>
<tr>
<td>• Tier 1 Canada Research Chair in Host Response to Viruses 2011-2018 (First renewal)</td>
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<table>
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<tr>
<th>Dr. Mark Wainberg</th>
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<tbody>
<tr>
<td>• Honorary Doctorate (Honoris Causa) Faculté de medicine Université de Montréal</td>
</tr>
<tr>
<td>• Elected as a Fellow of the American Association for the Advancement of Science.</td>
</tr>
</tbody>
</table>
b. Publications

**Dr. Albert Berghuis**


**Dr. Dalius Briedis**


**Dr. James Coulton**

**Dr. Ben Cousineau**


**Dr. Jörg Fritz**


**Dr. Matthias Götte**


**Dr. Samantha Gruenheid**


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**Dr. Connie Krawczyk**


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**Dr. Herve Le Moual**


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**Dr. Joaquin Madrenas**


**Dr. Greg Marczynski**


**Dr. Greg Matlashewski**


**Dr. Martin Olivier**


Dr. Ciro Piccirillo


F. Berretta, St-Pierre J., C.A. Piccirillo* and M.M Stevenson*. Interleukin 2 contributes to maintaining a balance between CD4+ Foxp3+ regulatory T cells and effector CD4+ T cells required for immune control of blood-stage malaria infection. J. of Immunology 2011;186(8):4862-71. * co-senior authors.


Dr. Donald Sheppard


**Dr. Sylvia Vidal**


Fodil-Cornu, N., JC Loredo-Osti and Vidal, S. NK cell receptor/H2-Dk-dependent host resistance to viral infection is quantitatively modulated by H2q inhibitory signals. PLOS Genetics 7: e1001368, 2011.


**Dr. Mark Wainberg**


Asahchop EL, Oliveira M, Wainberg MA, Brenner BG, Moisi D, Toni TD and Tremblay CL. Characterization of the E138K Resistance Mutation in HIV-1 Reverse Transcriptase on


Kuhl BD; Sloan RD; Donahue DA; Liang C; Wainberg MA.Vpu-mediated tetherin antagonism of ongoing HIV-1 infection in CD4+ T-cells is not directly related to the extent of tetherin cell surface downmodulation. Virology. 2011. 417:353-361.


c. Presentations & Lectures

**Dr. Albert Berghuis**

**Presentations at Professional Meetings**

**Presentations at Internal and External Seminar Series**
- Structural studies of antibiotic resistance mechanisms. Institute of Experimental Biology (IIBE), University of Guanajuato, Guanajuato, Mexico. September, 2011.
- Structural biological studies of antibiotic resistance mechanisms. Department of Microbiology & Immunology, Dartmouth College, Hanover, New Hampshire. October, 2011.

**Dr. James Coulton**

**Presentations at Professional Meetings**


Presentations at Internal and External Seminar Series

- J.W. Coulton, Bacterial membrane proteins: the career of some Fhu’s; The Leverhulme Lecture, The University of York, May 2011

- J.W. Coulton, High-resolution electron microscopy of ExbB and ExbD, a complex in the cytoplasmic membrane of Escherichia coli. Presentation at the annual research retreat, Department of Biology, The University of York, June 2011


- J.W. Coulton, MIMM department chalk talk, November 2011

**Dr. Sylvie Fournier**

Presentations at Internal and External Seminar Series

- February 17 2011 Université de Montréal Département de Microbiologie et Immunologie (invited speaker)

- October 28 2011 Chalk Talk-TGIF Department of Microbiology and Immunology, McGill University

**Dr. Jorg Fritz**

Presentations at Professional Meetings

- Hospital Maisonneuve-Rosemont, Montreal, QC, Canada. “B cells regulate innate resistance” (invited by Dr. Laurent Sabbagh) 01. April 2011.

- University of Sherbrooke, XVIIe Colloque d’Immuno-Inflammation, Eastman, QC, Canada. “B cells regulate innate resistance” (invited by Dr. Jana Stankova) 17. June 2011.

- Concordia University, Montreal, QC, Canada. Mini-Symposium in Immunology and Inflammation. “Acquisition of a multifunctional TNF/iNOS producing IgA+ plasma cell in the gut”. (invited by Dr. Pavel Gris) 29. November 2011.

Presentations at Internal and External Seminar Series

- Seminar Series - Department of Microbiology and Immunology. “B cells regulate innate resistance”. (invited by Dr. Samantha Gruenheid) 07. April 2011.
Dr. Matthias Gottee

Presentations at Professional Meetings

- Annual CFAR (Center for AIDS Research) Conference: “Molecular Basis for HIV Disease and Therapy”, Case Western Reserve University, August 18-19, 2011, Cleveland, Ohio, USA. “Inhibition of HIV Reverse Transcriptase: Beyond NRTIs and NNRTIs” - Invited Speaker.


- HEP DART 2011, December 4-8, Kauai, Hawaii, USA. Refereed Presentation “Contribution of a Mutational Bias in HCV Replication to the Genetic Barrier in the Development of Drug Resistance”.

Presentations at Internal and External Seminar Series

- Invited Presentation: Global Health & Emerging Pathogens Institute – Mount Sinai School of Medicine, New York City, NY, USA, January 19, 2011

- Invited Presentation: Center for the Study of Hepatitis C - The Rockefeller University, New York City, NY, USA, January 18, 2011

- Invited Presentation: Gilead Science Inc. Foster City, CA, USA, August 4, 2011

Dr. Samantha Gruenheid

Presentations at Professional Meetings

- Canadian Society of Microbiologists Annual Meeting, St. John’s, NL, Canada June 23, 2011. The Cri1 locus mediates susceptibility to Citrobacter rodentium infection in mice.

Presentations at internal and external seminar series

- University of Michigan, Cardiovascular Center, Ann Arbour, MI, USA.Oct. 10, 2011. Identification and characterization of NleA, a bacterial virulence factor that inhibits COPII.

- Universite de Montreal, Department of Microbiology, Montreal March 18, 2011. Molecular Dissection of Host /Pathogen interactions in EHEC, EPEC and C. rodentium infections.

- Rocky Mountain Laboratories (NIH/NIAID), Hamilton, Montana, USA March 3, 2011. Molecular Dissection of Host /Pathogen interactions in EHEC, EPEC and C. rodentium infections
• Biotechnology Research Institute, Montreal, Jan. 18th, 2011. Molecular Dissection of Host
/Pathogen interactions in EHEC, EPEC and C. rodentium infections.

• McGill University Soup and Science, Montreal, Jan. 17th, 2011. Infectious disease,
host/pathogen interactions, bacterial infections.

<table>
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<tr>
<th>Dr. Connie Krawczyk</th>
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<tr>
<td>Presentations at Professional Meetings</td>
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</table>
| • Poster – CIHR New Investigators Forum - "molecular regulation of dendritic cell function"
  Oct 14-16 2011. |

<table>
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<tr>
<th>Dr. Herve Le Moual</th>
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<tbody>
<tr>
<td>Presentations at Professional Meetings</td>
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</table>
| • Thomassin, J.L., Brannon, J., Gruenheid, S. and Le Moual H. (2011). OmpT of
  Enterohemorrhagic and Enteropathogenic Escherichia coli contribute differently to
  antimicrobial Peptide Degradation. Poster, American Society for Microbiology, 111th
  General Meeting, New Orleans, LA, USA. |

  analysis of two-component system gene expression in Citrobacter rodentium. Poster, 6th
  Undergraduate Research Conference, McGill University, Montreal, QC, Canada. |

| • Le Moual H. (2011) Targeting bacterial resistance to host antimicrobial peptides as an
  alternative strategy to treat infections. Invited speaker, 2nd Annual World Congress of
  Microbes, Guangzhou, China. |

<table>
<thead>
<tr>
<th>Dr. Joaquin Madrenas</th>
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<tbody>
<tr>
<td>Presentations at Professional Meetings</td>
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</table>
| • Madrenas J. The art and science of grant writing. CST/AST Distinquished Fellows
  Research Symposium. 2011 Annual Scientific Meeting of the Canadian Society of

| • Madrenas J. Funding transplantation research in Canada. Panel discussion. 2011 Annual
  Scientific Meeting of the Canadian Society of Transplantation. Mont-Tremblant PQ, March
  4, 2011. |

| • Madrenas J. Regulation of Adaptive Immune Responses by Innate Immunity: learning from
  superbbugs. 2011 Annual Scientific Meeting of the Canadian Society of Transplantation.
  Mont-Tremblant PQ, March 5, 2011. |
• Madrenas J. Immunology 101: how the immune system interacts with bacteria. Danoners Training Conference. London ON, April 7, 2011.


• Madrenas J. An Immunology Primer for Non-Immunologists. 2011 Canadian Hypertension Congress, Nottawasaga Inn, Alliston, ON October 4, 2011.

• Madrenas J. Regulation of Innate Immunity and Inflammation by Commensal Bacteria. 2011 Canadian Hypertension Congress, Nottawasaga Inn, Alliston, ON October 5, 2011.

• Madrenas J. The Do’s and Do Not’s of Grant Writing. CIHR Institute of Infection and Immunity New Investigator Forum, Manoir du Lac Delage, Lac Delage QC, October 14-16, 2011.

• Madrenas J. Regulacion de la respuesta immune adaptativa por la inmunidad natural. I Curso Avanzado de Inmunologia, Instituto de Inmunologia, Universidad Central de Venezuela, Caracas, Venezuela, October 26, 2011.

• Madrenas J. Systems biology of S. aureus commensalism and infection. II Congreso de Inmunologia Basica y Clinica, Instituto de Inmunologia, Universidad Central de Venezuela, Caracas, Venezuela, October 27-28, 2011.


• Madrenas J. Career Planning. KRESCENT Workshop, Montreal, QC, December 9, 2011.

Presentations at internal and external seminar series
• Madrenas J. Reclaiming the University: an evolutionary view of academic scholarship. King’s Speakers Series. King’s University College at The University of Western Ontario. London ON, February 14, 2011.

• Madrenas J. University: a challenge to embrace change. Seminar Series, Department of Biochemistry, The University of Western Ontario. London ON, March 11, 2011.


**Dr. Greg Marczynski**

Presentations at Professional Meetings


**Dr. Greg Matlashewski**

Presentations at Professional Meetings


Presentations at internal and external seminar series

- Matlashewski, G. Elimination of Visceral leishmaniasis. Department of Microbiology and Immunology, McGill, Feb. 24, 2011

**Dr. Martin Olivier**

Presentations at Professional Meetings

- Leishmania-Macrophage Interaction: A Signaling Story. "XX Congreso de la Federación Latinoamericana de Parasitología (FLAP)" and the "XV Congreso de la Sociedad Colombiana de Parasitología y Medicina" Bogota, Colombia. September 2011

- Leishmania Metalloprotease gp63 and Innate Immune Response. ASTMH 60th Annual Meeting Philadelphia, USA. December 2011

Presentations at internal and external seminar series

- How to Dodge the Innate Immune Response? A Lecture by Dr. Leish and Mr. Hyde…Institute of Parasitology, McGill University Ste-Anne-de-Bellevue, Quebec, Canada February 2011
• Phosphatase, metalloprotease and leishmaniasis: A dangerous trio. Seattle Biomedical Research Institute. Seattle, Washington, USA April 2011

• Mécanismes d'Évasion de la Réponse Innée par le Protozoaire Parasite *Leishmania*. Centre de Recherche du CHUM-St-Luc. Montréal, Qc, Canada June 2011

• From Malarial Hemozoin to the Development of a HA-Based Adjuvant Platform. GlaxoSmithKline Laboratories. Laval-des-Rapides, Qc, Canada October 2011

**Dr. Ciro Piccirillo**

Presentations at Professional Meetings


• 5th Vaccine Renaissance Conference, RI, USA (2011): Foxp3+ Treg cells in health and disease.

Presentations at internal and external seminar series

• McGill Department of Microbiology and Immunology seminar (FEB 2011): Functional stability of Foxp3+ Treg cells in organ-specific autoimmunity.


• MUHC Grand Rounds: Cancer immunobiology (2011): from mechanisms to immunotherapy.

• MUHC Combined Endocrine Round: Immunoregulatory defects in the patho-physiology of type 1 diabetes.

**Dr. Donald Sheppard**

Presentations at Professional Meetings


• Invited Presentation, The Philippine Society of Hematology and Blood Transfusion Manila, Philippines Role of Membrane Bound Antifungals in Mediating Protection Against Fungal Infection Sept 7 2011.
Section II - Research


- Plenary Address, 4ieme Journée de Formation en Infectiologie Hématologie, Paris, France New pharmacologic paradigms governing the efficacy of antifungal prophylaxis June 17 2011.

- 21st European Congress of Clinical Microbiology and Infectious Diseases, Milan Italy. Membrane accumulation of azoles mediates protection against fungal infection May 7 2011.

- Invited Presentation, MSD International Consultation on Pharmacokinetics, Milan, Italy Intracellular Pharmacokinetics of Posaconazole May 6 2011.


- Invited presentation, ESCMID Biofilms in Nosocomial Fungal Infections Conference Institut Pasteur, Paris, France. Galactosaminogalactan mediates Aspergillus fumigatus adherence to host tissues and virulence, Jan 31 2011

Presentations at internal and external seminar series

- Invited Speaker, Singapore General Hospital Conference Series, Singapore Role of Membrane Bound Antifungals in Mediating Protection Against Fungal Infection, August 31 2011.

- Microbiology Grand Rounds; St John Health Centre, St John New Brunswick Galactomannan guided approach to managing fungal infections, Feb 24 2011.

- Invited Seminar, Department of Microbiology, Queens University, Kingston ON. Aspergillus adherence and galactosaminogalactan, Jan 26 2011.

- Invited Seminar, Department of Microbiology and Immunology, Tel Aviv University Galactosaminogalactan mediates A.fumigatus adherence to host tissues and virulence, Jan 2 2011.

- Infectious Diseases Grand Rounds, McMaster University Health Centre Novel Diagnostic approaches to Aspergillus infection, Jan 10 2011.
Dr. Silvia Vidal

Presentations at Professional Meetings

- “Genetic control of the antiviral response”. EMBO/Pasteur Institute Conference on the Host Genetic Control of Infectious Diseases. 27-30 September, 2011. Paris, France. Invited speaker

- “MHC class I receptors and their ligands modulate the NK cell antiviral response”. AAI 98th Annual Meeting. May 13-17, 2011. San Francisco, California. Invited speaker

Presentations at internal and external seminar series

- “NK cell receptors and their MHC class I ligands govern host response to virus infection”. Department of Immunology, University of Toronto, July 12, 2011.

- “Input of MHC class I receptor signals quantitatively modulates host resistance to viral infection through virus-specific receptors”. NIH Twinbrook Seminar Series, March 29, 2011.

Dr. Mark Wainberg

Presentations at Professional Meetings

- Unité de maladies infectieuses. Université de Montpellier, France. «Transmission des souches du VIH résistantes aux ARV et la relation avec la capacité de réplication virale». January 2011.


- University of Toronto. Department of Microbiology. “Factors governing the development and transmission of HIV drug-resistant viruses”. June 2011.


International Retrovirology Conference, Amsterdam, The Netherlands. “Reverse transcriptase mutations that confer drug resistance complement each other to restore full-level viral replication capacity.” October 2011.

## d. Grants

<table>
<thead>
<tr>
<th>Agency</th>
<th>Grant</th>
<th>Duration of Grant</th>
<th>Funding Amount/year</th>
<th>Total amount of grant</th>
<th>Researcher</th>
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<tbody>
<tr>
<td>CFI</td>
<td>Regulation of inflammatory and adaptive immune responses upon innate immune recognition by pathogens</td>
<td>2011-2016</td>
<td>$250,000</td>
<td></td>
<td>Fritz, Jorg</td>
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<tr>
<td></td>
<td>Regulation of inflammatory and adaptive immune responses upon innate immune recognition by pathogens</td>
<td>2011-2016</td>
<td>$20,000</td>
<td></td>
<td>Fritz, Jorg</td>
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<tr>
<td>CIHR</td>
<td>Structural biological studies of antibiotic resistance mechanisms</td>
<td>2011 - 2016</td>
<td>$211,951</td>
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<td>Structural studies of the fungal mannann biosynthesis pathway&quot;</td>
<td>2011 - 2016</td>
<td>$165,037</td>
<td>$825,186</td>
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<td>Structural proteomics of host-pathogen interactions</td>
<td>2011 - 2016</td>
<td>$54,600</td>
<td>$273,000</td>
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<td>CIHR strategic training program in chemical biology</td>
<td>2009 - 2015</td>
<td>$300,000</td>
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<td>Structural biology of the TonB interactome</td>
<td>2008-2013</td>
<td>$160,497</td>
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<td>Sheldon Biotechnology Centre: Surface Plasmon Resonance Facility</td>
<td>2007-2012</td>
<td>$78,662</td>
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<td>CIHR Training Program</td>
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<td>$390,000</td>
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<td></td>
<td>Functions of Nod1 and Nod2 in host resistance</td>
<td>2011-2016</td>
<td>$132,523</td>
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<td>Fritz, Jorg</td>
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<td></td>
<td>Molecular mechanisms involved in resistance to different classes of RT inhibitors</td>
<td>2007-2012</td>
<td>$115,000</td>
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<td>Gottie, Matthias</td>
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<td>Molecular mechanisms involved in delayed chain-termination</td>
<td>2008-2011</td>
<td>$68,000</td>
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<td>HCV Genetic Variability and Drug Resistance</td>
<td>2011-2014</td>
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<td>Genetic dissection of the host response to intestinal infections</td>
<td>2008-2013</td>
<td>$116,974</td>
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<td>Resistance of Citrobacter rodentium and related enteric pathogens to antimicrobial peptides.</td>
<td>2010 -2013</td>
<td>$90,310.00</td>
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<td>Systems Immunology of S. aureus infection</td>
<td>2010-2015</td>
<td>$166,672.00</td>
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<td>2011-2014</td>
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<td>The role of SLP-2 in TCR signalosome assembly and T cell activation</td>
<td>2007-2011</td>
<td>$134,694.00</td>
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<td>London Regional Cell and In Vitro Molecular Imaging Faci</td>
<td>2011-2013</td>
<td>$51,500.00</td>
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<td></td>
<td>Molecular Basis for Leishmania Virulence</td>
<td>2006-2011</td>
<td>$720,000</td>
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<td>Subversion of Macrophage Signaling - by the Protozoan Parasite Leishmania.</td>
<td>2011-2016</td>
<td>$840,000</td>
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<td>Hemozoin: An Inorganic Heme-Based Crystal Responsible for Hepatosplenomegaly Development During Malaria.</td>
<td>2011-2012</td>
<td>$100,000</td>
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<td>Defining immunological checkpoints to enhance cancer immunotherapy.</td>
<td>2008-2011</td>
<td>$140,000</td>
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<td>Functional dynamics of Foxp3+ regulatory T cells in vivo.</td>
<td>2007-2012</td>
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<td>New Emerging Team - Immune Regulation and Biomarker Development in Pediatric and Adult Onset Human Autoimmune Diseases.</td>
<td>2007-2012</td>
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<td>26</td>
<td>Molecular Mechanisms of Invasive Aspergillosis.</td>
<td>2009-2014</td>
<td>$133,933</td>
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<td>27</td>
<td>Genetics of natural killer cell response to virus infection</td>
<td>2010-2015</td>
<td>$179,000</td>
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<td>28</td>
<td>CIHR team in mutagenesis and infectious diseases</td>
<td>2008-2013</td>
<td>1,086,000</td>
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<td>29</td>
<td>Molecular genetics of host susceptibility to cardiovirulent coxsackievirus infection</td>
<td>2006-2011</td>
<td>$130,000</td>
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<td>30</td>
<td>Genetic Dissection of Airway Hyperresponsiveness and Susceptibility to Allergic Asthma</td>
<td>2010-2015</td>
<td>$142,633</td>
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<td>IHR Training Program in Integrative Approaches to Human Health</td>
<td>2009-2015</td>
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<td>32</td>
<td>Canadian mouse mutant repository: A core resource for mouse models of human disease</td>
<td>2006-2011</td>
<td>$519,036</td>
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<td>Genetic dissection of host response against respiratory virus infection in RCS mice</td>
<td>2008-2011</td>
<td>$180,000</td>
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<td>Development of new strategies to target HIV replication and stimulate anti-HIV post-exposure immunity.</td>
<td>2011-2012</td>
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<td>Studies on HIV integrase inhibitors as key components of effective therapy: Molecular and pathogenesis studies.</td>
<td>2011-2012</td>
<td>$88,538</td>
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<td>36</td>
<td>Patterns of drug resistance and viral evolution in patients undergoing primary HIV infection.</td>
<td>2011-2012</td>
<td>$128,550</td>
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<td>Methylation of HIV viral proteins as key steps in viral replication.</td>
<td>2011-2012</td>
<td>$55,595</td>
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<td>Regroupements strategiques ROTE, le regroupement québécois de recherche sur la fonction, la structure et l'ingénierie des proteins</td>
<td>2008 – 2014</td>
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<td>$1,500,000</td>
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<td>Regroupement stratégique, Faculté de médecine vétérinaire, Université de Montréal</td>
<td>2006-2011</td>
<td>$6,000</td>
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<td>Center for Host-Parasite Interactions</td>
<td>2010-2012</td>
<td>$30,000</td>
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<td>5</td>
<td>Creation d'une nouvelle plateforme pour la characterisation de l'ARN polymérase du virus de l'hépatite C (NS5B) et de ses d'inhibiteurs à l'échelle de la molécule individuelle</td>
<td>2009-2012</td>
<td>$18,000</td>
<td>$54,060</td>
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<td>Centre for Host-Parasite Interactions</td>
<td>2009-2014</td>
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<td>2008 - 2012</td>
<td>$260,000</td>
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<td>Groupe d’étude des protéines membranaires (GÉPROM) Projet novateur Gyo electron microscopy of a bacterial membrane protein complex</td>
<td>2011</td>
<td>$15,000</td>
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<td>Fine Mapping and Function of Genes for type 1 diabetes.</td>
<td>2009-2014</td>
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<td>New Animal Models for Invasive Aspergillosis</td>
<td>2010-2016</td>
<td>$80,000</td>
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<td>Sheppard, Donald</td>
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<td>Transcriptional regulation of A. fumigatus virulence</td>
<td>2007-2012</td>
<td>$90,053</td>
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<td>Structural studies of Baeyer-Villiger monooxygenasesl“</td>
<td>2011 – 2012</td>
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<td>Bionanomachines</td>
<td>2011 - 2017</td>
<td>$300,000</td>
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<td>Cbl interactome for vitamin B12 metabolism</td>
<td>2007-2012</td>
<td>$28,000</td>
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<td>Cellular dynamics of macromolecular complexes</td>
<td>2010-2015</td>
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<td>2008-2013</td>
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<td>Signal transduction by bacterial Ser/Thr Kinases.</td>
<td>2008 - 2013</td>
<td>$25,000.00</td>
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<td>Operating grant</td>
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<td>Discovery Grant-Title: Role of Iron in the Regulation of PTPs: Impact on Cell Signaling and Functions.</td>
<td>2011-2012</td>
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<td>Agency: Le Ministre des Relations Internationales, Gouvernement du Quebéc – Groupe de travail Quebéc-Mexique-Formation sur l’étude structurale des proteins parasitaires pour la comprehension des maladies infectieuses</td>
<td>2009 - 2011</td>
<td>$9,750</td>
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<td>Agency: Quebec Consortium for Drug Discovery (CQDM)-Phage-based screening platform for the discovery of antivirals</td>
<td>2010-2013</td>
<td>$240,000</td>
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<td>$70,000</td>
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<td>Agency: The Cranberry Institute - Action of Cranberry Derived Materials Against Bacterial Infections</td>
<td>2011-2012</td>
<td>$26,000</td>
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<td>Agency: BMS- Regulation of PD1 mechanism of action</td>
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<td>Agency: UWO - Rotors and cells for ultracentrifuge</td>
<td>2011</td>
<td>$48,106.00</td>
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<td>Agency: KFC - Modulation of PD-associated peritonitis by the bacterial cell wall</td>
<td>2011</td>
<td>$50,000.00</td>
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<td>Madrenas, Joaquin</td>
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<td>Agency: Grand Challenge Canada-Point of care diagnosis of Visceral leishmaniasi in India</td>
<td>2011-2014</td>
<td>$887,000</td>
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<td>Agency: Drugs for Neglected Diseases Initiative (DNDi),via Bill and Melinda Gates Foundation- Novel treatment modalities for visceral leishmaniasi</td>
<td>2011 -2015</td>
<td>$1,900,000</td>
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### Other

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<td>12</td>
<td>Agency: Infectious Diseases Research Institute (IDRI), via Bill and Melinda Gates Foundation - Novel Diagnostics for Leishmaniasis</td>
<td>2010 - 2012</td>
<td>$120,000</td>
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<td>Agency: Grand Challenge Canada - Use a permanent make-up (PMU) device to target intra-dermal delivery of an anti-Cutaneous Leishmaniasis therapy.</td>
<td>2011-2012</td>
<td>$113,000</td>
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<td>Agency: JDRF. Integrating genetics with markers of immune response.</td>
<td>2008-2011</td>
<td>$200,000</td>
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<td>Agency: Canadian Cystic Fibrosis Foundation - Mechanisms of Aspergillus fumigatus induced progression of chronic airway disease in cystic fibrosis.</td>
<td>2009-2012</td>
<td>$75,500</td>
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<td>Agency: Merck Investigator Study Proposals - Pharmacokinetics and efficacy of membrane-associated posaconazole</td>
<td>2011-2012</td>
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**Total Number of Grants** 75

**Total Amount of Grants Received (Per Year 2011)** $15,376,325


e. Patents

Dr. Robert Murgita

- “Production of Genetically Engineered Human recombinant Alpha-Fetoprotein with improved yield, Immunological Therapeutic Effects and Diagnostic Value”. ROI 9101

Dr. Martin Olivier


Dr. Donald Sheppard

- With the office of sponsored research we have initiated patent protection for the use of a genetically modified strain of Aspergillus niger as a biosensor for Arsenic
f. Other Research Scholar Activities

Dr. Albert Berghuis

List of activities as a reviewer (internal, external)

Editorial board member
- Antimicrobial Agents and Chemotherapy (ASM Journal; since 2010)
- Protein Engineering Design & Selection (Oxford Journal; since 2004)

Grant review (external reviewer):
- College of Reviewers for the Canada Research Chairs Program (2002-2011)
- College of Reviewers for the Canada Foundation for Innovation New Opportunities Program (2004-2011)
- Referee panel for the X6A beam line at the National Synchrotron Light Source (USA based; 2002-2011)

Grant review (panel member):
- National Institutes of Health – full member DDR (USA: 2010-2014) (3 meetings per year; ~100 applications per meeting)

External referee for tenure and promotions
- University of Alberta
- University of British Columbia
- University of Victoria

List of activities as organizer of national and international meetings or as session chair
- Co-organizer of the Annual GRASP Symposium, Montreal, 2008-2011
- Co-Chair of the 23rd Congress and General Assembly of the International Union of Crystallography; August 5-12, 2014.

List of other research related activities
- Mentor for junior faculty members in the Department of Biochemistry
- Member Chemical Biology Training grant scholarship committee
- Chair GRASP scholarship committee

Dr. James Coulton

List of activities as a reviewer (internal, external)
- Reviewer of applicants for 5-year Fellowships, Biotechnology and Biosciences Research Council (BBSRC), The University of York, April 2011.
- Director’s request for Review of research staff, Lady Davis Institute, Jewish General Hospital, December 2011.

List of activities as organizer of national and international meetings or as session chair
- Organizer of the annual international symposium of 11 speakers, June 2011: Cellular dynamics of macromolecular complexes, Université de Montréal
List of other research related activities
- Fellow, American Academy of Microbiology
- Fellow, Alexander von Humboldt-Stiftung, Bonn
- Academic and Research Microbiologist, Canadian College of Microbiologists

Dr. Benoit Cousineau

List of activities as a reviewer (internal, external)
- 2 NSERC Grants
- 1 Tenure dossier

List of other research related activities
- Poster judge at the “Mois de la recherche, Département de Biochimie, Université de Montréal

Dr. Sylvie Fournier

List of activities as a reviewer (internal, external)
- NSERC, November 2011
- MS Society of Canada, December 2011
- PloS One, March 2011
- Quebec-Ottawa Regional Research and Training Centre of the endMS Research and Training Network

List of other research related activities
- McGill University Postgraduate Awards Committee (PGAC) - review of 19 Postdoctoral fellowship applications

Dr. Jorg Fritz

List of activities as a reviewer (internal, external)
Internal
- McGill University Postgraduate Awards Committee (PGAC) - review of 19 Postdoctoral fellowship applications

External
- Academic Editor for PLOSOne: handling of 27 manuscripts.
- Editorial Board Member of the Journal of Clinical & Cellular Immunology
- Ad-hoc Peer Reviewer for PLOS Pathogens (1) & PLOSOne (1)

List of other research related activities
- McGill University Postgraduate Awards Committee (PGAC) - review of 19 Postdoctoral fellowship applications
- External Reviewer - Digestive Disorder Foundation UK (DDF) - Review of 1 grant application.
- Invited Member - Canadian Institutes of Health Research (CIHR)/Fall Competition - Committee: Hematology, Digestive Disease & Kidney (HDK) - Review of 9 grant applications
List of activities as a reviewer (internal, external)

Journals
- PNAS
- Journal of Molecular Biology
- Nucleic Acids Research
- PLoS Pathogens
- Journal of the American Chemical Society
- Journal of Infectious Diseases
- Nature Structural and Molecular Biology
- Journal of Virology, Retrovirology
- Virology
- Journal of Medicinal Chemistry
- Structure
- Journal of General Virology

Panel member
- The Ontario HIV Treatment Network (two meetings/year, ~ 10 grants/meeting)

Ad hoc
- NIH Study Section on AIDS Discovery and Development of Therapeutics (~ 10 grants/meeting)
- Canadian Institutes of Health Research (CIHR), Virology and Viral Pathogenesis (VVP) (~ 10 grants/meeting)

External
- The Human Frontier Science Program (HFSP), Career Development Award (CDA)

Site visits
- NCI, Frederick, Drug Resistance Program

List of activities as organizer of national and international meetings or as session chair.

International Conferences - Organizing
- Co-Chair: American Society for Microbiology (ASM) Meeting on “Viral Genome Replication”, Banff, February 6-9, 2011

International Conferences – Scientific Committee
- International Workshop on HIV and Hepatitis Virus Drug Resistance and Curative Strategies, June 7-11, 2011 Los Cabos, Mexico
- HEP DART, December 4-8, 2011, Kauai, Hawaii, USA

International Conferences – Session Chair
- 18th International Symposium on Hepatitis C Virus and Related Viruses, September 8-12, 2011 - Session8a: “Antiviral Therapy”

List of other research related activities
- Review of faculty at the Lady Davis Institute (LDI) of the Jewish General Hospital at McGill University.

List of activities as a reviewer (internal, external)

Grant review
- Canada Research Chairs, Reviewer, July 2011

Manuscript review for journals
- Cellular Microbiology (Dec 2011)
- Cell Host and Microbe (Nov. 2011)
- Microbial Pathogenesis (May 2011)
- Cellular Microbiology (Feb 2011)

List of activities as organizer of national and international meetings or as session chair
- Canadian Society of Microbiologists - Infection and immunity symposium co-chair, annual conference, 2011.

Dr. Hervé Le Moual

List of activities as a reviewer (internal, external)
- Reviewer for the Open Microbiology Journal.

Dr. Joaquin Madrenas

List of activities as a reviewer (internal, external)
- Nature Medicine
- Immunity, Cambridge, MA.
- The Journal of Experimental Medicine, New York, NY
- Proceedings of the National Academy of Sciences USA (PNAS)
- The Journal of Immunology, Bethesda, MD - Associate Editor 2006-2010
- The Journal of Clinical Investigation
- Blood
- Diabetes
- The Journal of Biological Chemistry, Bethesda, MD
- Pharmacological Reviews - Associate Editor 2007-2010
- JASN (Journal of the American Society of Nephrology)
- The Journal of Leukocyte Biology, Frederick, MD
- European Journal of Immunology, Freiburg, Germany
- Cellular Immunology, San Diego, CA.
- Oncogene
- Cell Death & Differentiation
- International Immunology
- The Journal of Gerontology - Biological Sciences, La Jolla, CA.
- American Journal of Transplantation - Associate Editor 2008-2011
- American Society of Transplantation, Mt. Laurel, NJ
- Nephrology, Dialysis, and Transplantation
- Peritoneal Dialysis International
- Experimental and Therapeutic Medicine - Editorial Board 2009-present
- Journal of Neuroimmunology
- Immunologia - Editorial Board 2006-present
- Journal of Zhejiang University Science
- Reviewer, Chapter Content, J. A. Bellanti’s Immunology IV: Clinical Applications in Health and Disease
List of activities as organizer of national and international meetings or session chair
- Member, Canadian Society of Transplantation Scientific Program Committee, Mont-Tremblant PQ, 2011.
- Participant – Speaker, Grant Writing and Peer Review Workshop, CIHR Institute of Infection and Immunity New Investigator Forum, Manoir du Lac Delage, Lac Delage QC, October 14-16, 2011.

List of research related activities
- Executive Director, National CIHR Human Immunology Network
- Consultant and Reviewer, Rusnano Biotechnology, Moscow, Russia

Dr. Greg Marczynski

List of activities as a reviewer (internal, external)
- Reviewed 2 manuscripts for Journal of Bacteriology (external)
- Reviewed 2 manuscripts for Plasmid (external)
- Reviewed 1 manuscript for Molecular Microbiology (external)

Dr. Greg Matlashewski

List of research related activities
- Advisor to the World Health Organization on visceral leishmaniasis elimination.

Dr. Martin Olivier

List of activities as a reviewer (internal, external)
- Member of the FRSQ Junior I Scholarship committee (2010-2011)

List of activities as organizer of national and international meetings or as session chair
- Chairman of Symposium on “Hemozoin in Malaria Pathogenesis”
- ICOPA XII, Melbourne Australia. (August 2010)
- Member of the International Scientific Advisory Board.
- The Neutrophil in Immunity, Québec City, Canada. (2010-2012)
- Member of the Selection Committee for the World Leish 5 meeting (2011-2012)

Other research activity
- MUHC Internal Grant review prior to submission
- Animal Protocol Evaluation for project not supported by an operating grant
**Dr. Ciro Piccirillo**

**List of activities as a reviewer (internal, external)**
- External Program Reviewer: SIRG, Trinity College, Dublin, Ireland (Drs. K. Mills and J Fletcher)
- External Reviewer for JDRF Center review panel

**Other research activity**
- McGill (FacMed) Internal Grant Review (3)
- MUHC-Research Institute Internal Grant Review (2)

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**Dr. Donald Sheppard**

**List of activities as a reviewer (internal, external)**

**Grant reviews**
- Member, CIHR Microbiology and Infectious Diseases Panel
- External Reviewer NSERC Discovery Awards
- External Reviewer, National Science Foundation USA
- External Reviewer, Welcome Trust Awards (UK)
- External Reviewer, Cystic Fibrosis Foundation of Canada
- Reviewer, Awards Committee of the Association of Medical Microbiology and Infectious Disease Society of Canada

**Journal Reviews**
- Plos Pathogens (1)
- Plos One (3)
- Molecular Microbiology (1)
- Infection and Immunity (2)
- Applied and Environmental Microbiology (1)
- Fungal Genetics and Biology (1)
- Canadian Journal of Microbiology (1)
- FEMS Microbiology Letters (1)

**List of activities as organizer of national and international meetings or as session chair**
- Organizing Chairperson, Symposium on Cell Wall Regulation and Polarity, 2nd International Fungal Cell Wall Meeting, Giens, France 2011

**Other research related activities**
- Internal Reviewer, MUHC Research Institute, CIHR Operating Grants competition: 1 grant

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**Dr. Silvia Vidal**

**List of activities as a reviewer (internal, external)**
- CIHR, Immunology and Transplantation Panel
- NIH, Special Emphasis Panel to evaluate grants in response to RFA “An Integrated Approach to Understanding Host-Pathogens Interactions”
- The Welcome Trust (UK), External Reviewer.
• Israel Science Foundation, External Reviewer.
• Agence Nationale de la Recherche Française, External Reviewer.

**List of activities as organizer of national and international meetings or as session chair**

- The 2011 Montreal Symposium in Genetics and Infectious Diseases, Montreal, Canada, May 16-17, 2011

**List of other research related activities**

- The 2011 Montreal Symposium in Genetics and Infectious Diseases, Montreal, Canada, May 16-17, 2011

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**Dr. Mark Wainberg**

**List of activities as a reviewer (internal, external)**


**List of activities as organizer of national and international meetings or as session chair**

- Chairman Committee on Drug Resistance World Health Organization, Member of steering committee Conference of International Union of Microbiology Societies (IUMS) to take place in Montreal, 2014.

**Other research activity**

- Head HIV Research Axis - Lady Davis Institute
- Director, McGill University AIDS Centre
SECTION III
Teaching and Learning
a. Summary

The department of Microbiology and Immunology has an international reputation for excellence in education at graduate and undergraduate levels. This is reflected in the data compiled in the following tables. The departmental faculty members, both primary and associate members contribute to teaching, and make of education an integral component of their academic workload, contributing to Microbiology and Immunology courses and also to courses developed and coordinated by other departments in the Faculty of Medicine, Dentistry or Science.

The teaching activities are spread across undergraduate courses from year 1 to 3 of different programs, as well in multiple graduate courses and seminars. Lastly, as part of advanced and continuing education, the department provides many opportunities of learning through Seminar Series and Ad Hoc lectures by leaders in the field of Infection and Immunity.

b. Demographics and Metrics

The statistics reported in this section refer to the 12 month period between January to December 2011. There were over 260 undergraduate students registered in the Department of Microbiology and Immunology in the Major (over 230), Honors (19) and Liberal/Faculty (11) programs (Tables-1, 3 and 4). In addition, over 230 Science students were registered in our undergraduate courses as part of their Science education (Table-1). Taken together, the Department of Microbiology and Immunology taught over 70 FTE students in this reporting period (Tables-2 and 5). Specific numbers per listed courses and terms are shown in table 5. In addition, evaluation of the courses by students is shown in (table 6). Our courses averaged excellent evaluation by students.

Completion of our educational programs based on graduation number is shown in Table 7 (for undergraduate students) and Table 8 (for graduate students). 87 students obtained an undergraduate degree, 5 students graduated with a master degree and 12 students with a PhD degree.

In addition to the course lectures, the practical laboratory components in each academic year provide comprehensive basic training in the technical skills required for careers in medical microbiology, molecular biology, immunology and parasitology (MIMM212, MIMM386D1/2 and MIMM413). Our Honors research project courses in Microbiology and Immunology (MIMM502D1/2, 23 students) and Immunology (PHGY419D1/2, 12 students) provides our most research oriented students with a full-year of intensive training in basic and applied research with a Professor-supervisor. The MIMM396/397 undergraduate research project courses continue to provide an accessible 3-credit introduction for many science students to undertake basic research with Professors as supervisors.

Upon graduation, a significant fraction of our graduates enter medical and graduate schools including those at McGill. Feedback received from their supervisors demonstrates that they appreciate the excellent preparation we give to our students for subsequent graduate training and research.
We have established an excellent graduate program that combines state-of-the-art research training with a broad exposure to global issues in Microbiology and Immunology and research on the molecular aspects of viral, microbial, mycological and parasitic infections and host defenses against disease. Each program of graduate studies is tailored by their supervisor to fit the needs and backgrounds of individual students and the departmental Graduate Studies Committee ensures that the students’ projects, progress and performance are tracked and evaluated in a fair and uniform manner.

As shown in Table 9, annually we have trained an average of over 75 graduate students over the past five years. The average CGPA of newly admitted students is currently over 3.7 and most students begin as M.Sc. candidates in September or January.

As shown in Table 10, 20 graduate students (27% of the graduate students) received competitive external graduate fellowships from several agencies including CIHR, FRSQ, NCIC, etc totaling $493,584. The department received internal funding from McGill University totaling over $1.2 million to support our graduate students. The departmental F. C. Harrison, Jacob Rozanis, and Max Stern fellowships totaling $43,000 were awarded to 18 outstanding graduate students on the basis of academic achievement.

c. Advanced Research Training

Our goal is to help each graduate student become an independent research scientist. This goal is achieved through focused research training coupled with broad exposure to current scientific discoveries in graduate seminar courses, advanced special topics courses, and discipline specific journal clubs. In addition to supervised research in a Professor’s laboratory, our seminar courses provide our graduate students with training in effective lecture preparation and the teaching of science subjects followed by immediate feedback to identify existing strengths and areas where improvement is needed. In addition to instructions on the use of Power-point presentations in teaching, we have recently added information sessions on standard research practices consistent with the highest principles of integrity in research to ensure that our students’ research performance is above reproach. Graduate students also have opportunities to serve as Teaching Assistants in both lecture and laboratory courses to hone their skills as teachers of undergraduate students. The graduate studies tracking system continues to pay dividends in terms of a more structured student training, better monitoring of progress, correcting problems for students before they escalate and ensuring timely graduation. From January through December 2011, 5 M.Sc. and 12 Ph.D. students successfully defended their theses and graduated (Table-8.). A total of 10 Post Doctoral Fellows were trained in our department in the year of 2011.
### SECTION III:

**A. DATA ON DEPARTMENTAL ACTIVITIES**

#### TABLE 1. **Number of undergraduate students taught in Winter 11/Fall 2011**

<table>
<thead>
<tr>
<th></th>
<th>Winter</th>
<th>Fall</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate course enrolment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty of Science</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microbiology and Immunology Students:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I.H.I.: Students</td>
<td>263</td>
<td>259</td>
<td></td>
</tr>
<tr>
<td>Number of non Micro. students taught in MIMM courses by academic staff.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B.Sc.</td>
<td>207</td>
<td>147</td>
<td></td>
</tr>
<tr>
<td>BA/Sc.</td>
<td>27</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>11</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Exchange</td>
<td>3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>248</td>
<td>199</td>
<td></td>
</tr>
</tbody>
</table>

### TABLE 2. **Full time equivalent (FTE) enrolment of undergraduate students in courses by the Dept. during the past five years**

<table>
<thead>
<tr>
<th>Year</th>
<th>2006-2007</th>
<th>2007-2008</th>
<th>2008-2009</th>
<th>Fall 09 &amp; Winter 10</th>
<th>Fall term 2010</th>
<th>Winter 11</th>
<th>Fall 11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>148</td>
<td>135</td>
<td>147</td>
<td>146</td>
<td>77</td>
<td>64</td>
<td>77</td>
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</tbody>
</table>

### TABLE 3. **Enrolment in undergraduate programs in Microbiology & Immunology, Winter 2011, Fall 2011**

<table>
<thead>
<tr>
<th></th>
<th>Winter 2011 - CGPA 3.28</th>
<th>Fall 2011 - CGPA 3.31</th>
</tr>
</thead>
<tbody>
<tr>
<td>U1</td>
<td>U2</td>
<td>U3</td>
</tr>
<tr>
<td>Majors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>91</td>
<td>81</td>
<td>60</td>
</tr>
<tr>
<td>Honours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>Core Sci Comp (Liberal)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Faculty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Internship</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TABLE 4. **Undergraduate students enrolled in Dept. during the past five years**

<table>
<thead>
<tr>
<th>Year</th>
<th>2006-07</th>
<th>2007-08</th>
<th>2008-09</th>
<th>Fall 09</th>
<th>Winter 10</th>
<th>Fall 10</th>
<th>Winter 11</th>
<th>Fall 11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>304</td>
<td>275</td>
<td>285</td>
<td>293</td>
<td>276</td>
<td>276</td>
<td>263</td>
<td>259</td>
</tr>
<tr>
<td>Winter 2011</td>
<td>Course Title</td>
<td>Credits</td>
<td>Enrolment</td>
<td>Credits times enrol.</td>
<td>FTE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------</td>
<td>---------</td>
<td>-----------</td>
<td>----------------------</td>
<td>-------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMM 314</td>
<td>Immunology</td>
<td>3</td>
<td>271</td>
<td>813</td>
<td>27</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMM 386D2</td>
<td>Micro. &amp; Imm. Lab</td>
<td>3</td>
<td>82</td>
<td>246</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMM 387</td>
<td>Applied Micro. &amp; Imm.</td>
<td>3</td>
<td>55</td>
<td>165</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMM 396</td>
<td>Micro. Research Project</td>
<td>3</td>
<td>6</td>
<td>18</td>
<td>0.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMM 397</td>
<td>Imm. Research Project</td>
<td>3</td>
<td>2</td>
<td>6</td>
<td>0.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMM 413</td>
<td>Parasitology</td>
<td>3</td>
<td>81</td>
<td>243</td>
<td>8.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMM 466</td>
<td>Viral Pathogenesis</td>
<td>3</td>
<td>82</td>
<td>246</td>
<td>8.2</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>MIMM 498</td>
<td>Library Research Project Imm.</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>MIMM 499</td>
<td>Library Research Project Micro.</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td></td>
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<tr>
<td>MIMM 501D2</td>
<td>Honours Imm Res Project</td>
<td>6</td>
<td>7</td>
<td>42</td>
<td>1</td>
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<td>MIMM 502D2</td>
<td>Honours Micro Res Project</td>
<td>6</td>
<td>12</td>
<td>72</td>
<td>2.4</td>
<td></td>
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<tr>
<td>MIMM 509</td>
<td>Inflammatory Processes</td>
<td>3</td>
<td>24</td>
<td>72</td>
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<td><strong>1923</strong></td>
<td><strong>64</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Summer 2011</th>
<th>Course Title</th>
<th>Credits</th>
<th>Enrolment</th>
<th>Credits times enrol.</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIMM 396</td>
<td>Micro. Research Project</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>0.1</td>
</tr>
<tr>
<td>MIMM 397</td>
<td>Imm. Research Project</td>
<td>3</td>
<td>2</td>
<td>6</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td></td>
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<td><strong>6</strong></td>
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<td></td>
<td></td>
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<td><strong>3</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Fall 2011</th>
<th>Course Title</th>
<th>Credits</th>
<th>Enrolment</th>
<th>Credits times enrol.</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIMM 211</td>
<td>Intro. Microbiology</td>
<td>3</td>
<td>224</td>
<td>672</td>
<td>22</td>
</tr>
<tr>
<td>MIMM 212</td>
<td>Microbiology Lab</td>
<td>2</td>
<td>108</td>
<td>216</td>
<td>7</td>
</tr>
<tr>
<td>MIMM 323</td>
<td>Microbial Physiology</td>
<td>3</td>
<td>83</td>
<td>249</td>
<td>8</td>
</tr>
<tr>
<td>MIMM 324</td>
<td>Fund. Virology</td>
<td>3</td>
<td>107</td>
<td>321</td>
<td>11</td>
</tr>
<tr>
<td>MIMM 386D1</td>
<td>Micro. &amp; Imm. Lab</td>
<td>3</td>
<td>75</td>
<td>225</td>
<td>8</td>
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<td>MIMM 396</td>
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<td>2</td>
<td>6</td>
<td>0.2</td>
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<tr>
<td>MIMM 397</td>
<td>Imm. Research Project</td>
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<td>3</td>
<td>0.1</td>
</tr>
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<td>MIMM 414</td>
<td>Advanced Immunology</td>
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<td>46</td>
<td>138</td>
<td>5</td>
</tr>
<tr>
<td>MIMM 465</td>
<td>Bactiral Pathogenesis</td>
<td>3</td>
<td>86</td>
<td>258</td>
<td>9</td>
</tr>
<tr>
<td>MIMM 498</td>
<td>Library Research Project Imm.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>MIMM 499</td>
<td>Library Research Project Micro.</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>MIMM 501D1</td>
<td>Honours Imm Res Project</td>
<td>6</td>
<td>8</td>
<td>48</td>
<td>2</td>
</tr>
<tr>
<td>MIMM 502D1</td>
<td>Honours Micro Res Project</td>
<td>6</td>
<td>11</td>
<td>66</td>
<td>2.2</td>
</tr>
<tr>
<td></td>
<td></td>
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<td><strong>39</strong></td>
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<td></td>
<td></td>
<td></td>
<td><strong>850</strong></td>
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<td></td>
<td></td>
<td><strong>33150</strong></td>
<td><strong>74</strong></td>
</tr>
</tbody>
</table>
### TABLE 6. Student evaluation of undergraduate courses in Microbiology & Immunology Winter 2011 and Fall 2011

<table>
<thead>
<tr>
<th>course #</th>
<th>Winter 2011</th>
<th>Fall 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>number of</td>
<td>completed</td>
<td>evaluation</td>
</tr>
<tr>
<td>course #</td>
<td>evaluations</td>
<td>(1=poor, 5=excellent)</td>
</tr>
<tr>
<td>MIMM 314</td>
<td>61</td>
<td>4.05</td>
</tr>
<tr>
<td>MIMM 386D2</td>
<td>25</td>
<td>3.65</td>
</tr>
<tr>
<td>MIMM 387</td>
<td>10</td>
<td>4.45</td>
</tr>
<tr>
<td>MIMM 413</td>
<td>24</td>
<td>2.85</td>
</tr>
<tr>
<td>MIMM 466</td>
<td>16</td>
<td>3.05</td>
</tr>
<tr>
<td>MIMM 501D2</td>
<td>results 502D2</td>
<td></td>
</tr>
<tr>
<td>MIMM 502D2</td>
<td>6</td>
<td>4.78</td>
</tr>
<tr>
<td>MIMM 509</td>
<td>12</td>
<td>4.3</td>
</tr>
<tr>
<td><strong>average</strong></td>
<td><strong>3.88</strong></td>
<td></td>
</tr>
</tbody>
</table>

Question 1 - Overall, this is an excellent course (question 1 & 2 average).
Question 2 - Overall, I learned a great deal from this course (question 1 & 2 average).

### TABLE 7. Undergraduate students graduations Winter 2011, Spring 2011, Fall 2011

<table>
<thead>
<tr>
<th></th>
<th>Winter 2011</th>
<th>Spring 2011</th>
<th>Fall 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberal</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Honours</td>
<td>0</td>
<td>18</td>
<td>0</td>
</tr>
<tr>
<td>Majors</td>
<td>5</td>
<td>40</td>
<td>3</td>
</tr>
<tr>
<td>IHI</td>
<td></td>
<td>11</td>
<td>5</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>11</strong></td>
<td><strong>71</strong></td>
<td><strong>87</strong></td>
</tr>
</tbody>
</table>

### TABLE 8. Total Graduate Degrees granted over the past four years

<table>
<thead>
<tr>
<th></th>
<th>Winter 2011</th>
<th>Spring 2011</th>
<th>Fall 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>registered</td>
<td>graduated</td>
<td>registered</td>
<td>graduated</td>
</tr>
<tr>
<td>M.Sc.</td>
<td>27</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>42</td>
<td>6</td>
<td>39</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>69</strong></td>
<td><strong>6</strong></td>
<td><strong>67</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Winter 2008-09</th>
<th>Winter 2009-10</th>
<th>Fall 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>registered</td>
<td>graduated</td>
<td>registered</td>
<td>graduated</td>
</tr>
<tr>
<td>M.Sc.</td>
<td>35</td>
<td>9</td>
<td>31</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>50</td>
<td>4</td>
<td>47</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>85</strong></td>
<td><strong>13</strong></td>
<td><strong>78</strong></td>
</tr>
<tr>
<td>TABLE 9. Graduate student and enrolment and funding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Total Number of:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduate Students</td>
<td>77</td>
<td>77</td>
<td>75</td>
</tr>
<tr>
<td>Number of New Graduate Students</td>
<td>30</td>
<td>18</td>
<td>26</td>
</tr>
<tr>
<td>Average CGPA of Incoming Students</td>
<td>3.64</td>
<td>3.60</td>
<td>3.46</td>
</tr>
<tr>
<td>Fellowships/ Scholarships/ Bursaries</td>
<td>$425,488</td>
<td>$482,811</td>
<td>$697,410</td>
</tr>
<tr>
<td>Teaching/ Demonstratorships/ Service</td>
<td>$99,048</td>
<td>$81,693</td>
<td>$74,104</td>
</tr>
<tr>
<td><strong>Research Assistantships</strong></td>
<td>$1,005,365</td>
<td>869,850</td>
<td>$713,350</td>
</tr>
<tr>
<td>Total Funding</td>
<td>$1,529,901</td>
<td>$1,432,354</td>
<td>$1,484,863</td>
</tr>
<tr>
<td>Average Funding per Registered Trainee per annum</td>
<td>$19,869</td>
<td>18,602</td>
<td>$19,798</td>
</tr>
<tr>
<td><strong>Total reg in 2011 (includes students who graduated Winter &amp; Spring 2011)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>for in-dept students</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*** Last year reporting period Fall 2009 - Fall 2010</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Section III – Teaching and Learning

## Table 10: Funding of Graduate Students by Source

<table>
<thead>
<tr>
<th>Source</th>
<th>Number of Awards</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Departmental Awards</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. F.C. Harrison Fellowships</td>
<td>8</td>
<td>$22,760</td>
</tr>
<tr>
<td>Dr. Jacob Rozanis Fellowship</td>
<td>9</td>
<td>$10,260</td>
</tr>
<tr>
<td>Max Stern Recruitment Fellowship</td>
<td>1</td>
<td>$10,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>18</td>
<td>$43,020</td>
</tr>
<tr>
<td><strong>B. Internal Funding</strong></td>
<td></td>
<td>$1,282,186</td>
</tr>
<tr>
<td>1. Differential Fee Waiver</td>
<td>4</td>
<td>$24,100</td>
</tr>
<tr>
<td>2. Graduate Excellence Fellowship (GEF)</td>
<td>31</td>
<td>$144,099</td>
</tr>
<tr>
<td>3. Research Assistants</td>
<td>63</td>
<td>$1,055,494</td>
</tr>
<tr>
<td>4. GREAT Travel Awards</td>
<td>13</td>
<td>$5,882</td>
</tr>
<tr>
<td>5. Teaching/Demonstrators/Service</td>
<td>18</td>
<td>$52,612</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>129</td>
<td>$1,282,186</td>
</tr>
<tr>
<td><strong>C. External Fellowships</strong></td>
<td></td>
<td>$493,584</td>
</tr>
<tr>
<td>1. CIHR</td>
<td>12</td>
<td>$339,668</td>
</tr>
<tr>
<td>2. FRSQ</td>
<td>4</td>
<td>$77,250</td>
</tr>
<tr>
<td>3. NCIC</td>
<td>1</td>
<td>$20,000</td>
</tr>
<tr>
<td>4. NSERC</td>
<td>2</td>
<td>$46,666</td>
</tr>
<tr>
<td>5. Neuroinflammation</td>
<td>1</td>
<td>$10,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>20</td>
<td>$493,584</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td>167</td>
<td>$1,818,790</td>
</tr>
<tr>
<td>DATE</td>
<td>SPEAKER</td>
<td>TITLE</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
<td>----------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Jan. 20, 2011 | Dr. Erwin Schurr  
Montreal General Hospital  
Centre for the Study of Host Resistance | “Tuberculosis is a genetic disease” |
| Feb. 3, 2011   | Dr. Ciriaco Piccirillo  
Associate Professor  
Department of Microbiology & Immunology, McGill University | “Functional dynamics and plasticity of Foxp3+ regulatory T cells: a story of mice and men” |
| Feb. 24, 2011  | Dr. Greg Matlashewski  
Professor  
Department of Microbiology & Immunology, McGill University | “Visceral leishmaniasis: Elimination with existing interventions” |
| Mar. 3, 2011   | Dr. Marika Sarfati  
Centre de Recherche du CHUM,  
Hôpital Notre-Dame, Département of Medicine | “Dendritic cells in mucosal diseases” |
| Mar. 10, 2011  | Dr. John Rhode  
Assistant Professor  
Dalhousie University  
Department of Microbiology and Immunology | “Virulence in Shigella: new discoveries, new challenges and new tricks” |
| Mar. 9, 2011   | Dr. Shawn Lewenza  
Assistant Professor,  
Westaim-ASRA Biofilm Research Chair,  
Canadian Cystic Fibrosis Foundation Researcher, Faculty of Medicine, University of Calgary | “Antibiotic resistance and immune evasion strategies of Pseudomonas aeruginosa biofilms” |
| Mar. 16, 2011  | Dr. Tariq Ghayur  
Senior Principal Scientist & Research Fellow  
Abbott Laboratories | “The continuing evolution of antibody-based therapeutics” |
<table>
<thead>
<tr>
<th>DATE</th>
<th>SPEAKER</th>
<th>TITLE</th>
</tr>
</thead>
</table>
| Mar. 17, 2011 | Dr. Anna Marie Pyle  
Professor  
Departments of MCD Biology and Chemistry.  
Investigator, Howard Hughes Medical Institute, Yale University | “Architecture and folding pathways of group II intron RNAs”             |
| Mar. 24, 2011 | Dr. André Veillette  
Research Unit Director  
Molecular Oncology, IRCM | “Immune regulation by SAP family molecules”                           |
| Mar. 31, 2011 | Dr. Amee Manges  
Assistant Professor,  
Department of Epidemiology, Biostatistics and Occupational Health, McGill University | “The intestinal microbiota and risk of hospital acquired Clostridium difficile infections” |
| Apr. 7, 2011   | Dr. Jörg Fritz  
Assistant Professor  
Department of Microbiology and Immunology, McGill University | “B cells are regulating innate resistance”                           |
| Apr. 14, 2011  | Dr. Nathalie Grandvaux  
Université de Montréal  
Faculté de médecine, Département de biochimie | "NADPH oxidases in mucosal innate immunity against respiratory viruses" |
| Apr. 21, 2011  | Dr. Roger Lippe  
Université de Montréal  
Faculté de médecine, Département de biochimie | "Systemic analysis of viral and host proteins incorporated in Herpes simplex virus type 1 particles" |
| Apr. 28, 2011  | Dr. Damien Montamat-Sicotte  
Tuberculosis Research Unit  
Department of Respiratory Medicine National Heart & Lung Institute, Wright Fleming Institute of Infection & Immunity, Imperial College London | "CD1b-restricted T cells and immunological memory: Implications for TB vaccine development" |
<table>
<thead>
<tr>
<th>DATE</th>
<th>SPEAKER</th>
<th>TITLE</th>
</tr>
</thead>
</table>
| Sept. 6, 2011 | Dr. Paul Kaye  
University of York, England | "The host response to Leishmania in vivo: new insights into the macrophage response to infection." |
| Sept. 15, 2011 | Dr. Marcel Behr  
Montreal General Hospital | "Mycobacterium tuberculosis as a symbiont."                          |
| Sept. 29, 2011  | Dr. Rongtuan Lin  
Lady Davis Institute, McGill University | "Regulation of antiviral immune response through a RIG-I dependent pathway" |
| Oct. 13, 2011   | Dr. Andrew Mouland  
Lady Davis Institute, McGill University | "Elucidating critical HIV-1-host interactions during HIV-1's transit through the cell" |
| Oct. 27, 2011   | Dr. Alfredo Menendez  
University of Sherbrooke | "Biliary function and enterohepatic bacterial infection"              |
| Nov. 10, 2011   | Dr. Simona Steiger  
Insitute Armand Frappier, Laval | "Regulation of T-cell responses during experimental visceral leishmaniasis" |
| Nov. 17, 2011   | Dr. Andrew Gonzales  
McGill University | "Adaptation and evolutionary rescue in microbial model systems"        |
| Nov. 22, 2011   | Dr. Philippe Sansonetti  
Pasteur Institute, France | “Symbionts and Pathogens at mucosal surface, the Yin and Yang of innate immunity” |
| Nov. 24, 2011   | Dr. Eric Boilard  
Laval University | "Functions of Platelets in Inflammatory Arthritis"                    |
<table>
<thead>
<tr>
<th>DATE</th>
<th>SPEAKER</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 1, 2011</td>
<td>Dr. Andres Finzi</td>
<td>&quot;Conformational changes of the HIV-1 gp120: structure and function&quot;</td>
</tr>
<tr>
<td></td>
<td>Research Assistant Professor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Centre de Recherche du CHUM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(CRCHUM)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Département de Microbiologie et Immunologie Université de Montréal</td>
<td></td>
</tr>
<tr>
<td>Dec. 8, 2011</td>
<td>Dr. Markus Mohrs</td>
<td>&quot;Dissecting cytokine responses in vivo&quot;</td>
</tr>
<tr>
<td></td>
<td>Full Member</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trudeau Institute</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Saranac Lake, NY</td>
<td></td>
</tr>
</tbody>
</table>
SECTION IV

Academic and Community Service
**Dr. Albert Berghuis**

**Committee Memberships**
- Alternate member: Tenure and Promotions Committee (Faculty of Medicine).
- Co-director: GRASP (FRSQ funded Centre).
- Director: McGill Macromolecular X-ray Diffraction Facility (supported through GRASP).

**Activities external to the University**
- Grant review (panel member): National Institutes of Health – full member DDR (USA: 2010-2014) (3 meetings per year; ~100 applications per meeting).
- Editorial board member: Antimicrobial Agents and Chemotherapy (ASM Journal; since 2010).
- Editorial board member Protein Engineering Design & Selection (Oxford Journal; since 2004).

**Dr. Dalius Briedis**

**Committee Memberships**
- Member, McGill University Laboratory Safety Committee (Resource person for Biohazards).
- Member, McGill University Health Centre Antibiotic Subcommittee of the Pharmacy and Therapeutics Committee.
- Site Director, Division of Infectious Diseases, Department of Medicine, Royal Victoria Hospital.
- Director, Outpatient Intravenous Antibiotic Program, Royal Victoria Hospital.
- Director, Infectious Diseases Clinic, Royal Victoria Hospital.

**Dr. James Coulton**

**Committee Memberships**
- Life Sciences Library Advisory Committee, McGill Faculty of Medicine, since 2001.
- Member of the Users’ Committee and Advisor to the Director, Sheldon Biotechnology Center, since 2000.

**Activities External to the University**
- Co-director, Natural Sciences and Engineering Research Council Collaborative Research and Training Experience (CREATE), 2010-2015 Université de Montréal, McGill University, University of British Columbia, Baylor University.
- Groupe d’étude des protéines membranaires (GÉPROM), Université de Montréal, Chair of the Comité de formation to evaluate applications for training awards, since 2005.
- Brookhaven National Laboratory, NY, project evaluator for beamline X6A, since 2005.
Dr. Benoit Cousineau

Committee Memberships
- Member of the Microbiology & Immunology Chair Recruitment Committee.
- Member of the Duff Renovation Committee, McGill University.
- Member of the Duff Strategic Force Committee.
- Member of the Teaching Lab Renovation Committee.
- Department of Microbiology & Immunology representative at the 2011 McGill Open House.
- Invited lecturer at a Freshman Interest Group session (McGill University).

Activities External to the University
- Member of the American Society for Microbiologists (ASM).
- Member of the Canadian Society of Microbiologists (CSM).
- Member of the Eastern Ribo-Club (guest lab).
- Member of the Canadian Society for Ecology and Evolution (CSEE).

Dr. Sylvie Fournier

Committee Memberships
- CIHR Neuroinflammation Training Program Awards Committee, Member
- UACC Training Subcommittee, Member
- UACC Animal use protocol application review Subcommittee, Member
- April 6 2011, Doctoral Oral Examination of Mr. Hoang Kien, Department of Civil Engineering and Applied Mechanics, McGill University.
- October 11 2011, Doctoral Oral Examination of Mr. Neal Thomas, Department of Art History and Communication, McGill University.

Dr. Jorg Fritz

Committee Memberships
- McGill University Postgraduate Awards Committee (PGAC),
- review of 19 Postdoctoral fellowship applications

Activities External to the University
- External Reviewer - Digestive Disorder Foundation UK (DDF)- Review of 1 grant application.
- Invited Member - Canadian Institutes of Health Research (CIHR)/Fall Competition-Committee: Hematology, Digestive Disease & Kidney (HDK) - Review of 9 grant applications.
- Editorial Board Member of the Journal of Clinical & Cellular Immunology.
Dr. Matthias Gottee

Activities External to the University
- Journal of Biological Chemistry, Editorial Board Member, Since 2010.
- Antimicrobial Agents and Chemotherapy, Editorial Board Member, Since 2007.
- Ontario HIV Treatment Network (OHTN): Chair, Basic Research Grant Panel (two meetings/year), Peer Review Panels.
- Canadian Association for HIV Research (CAHR): Council Member, Scientific Societies.
- Marianopolus College “The Biology Club”, Montreal, Quebec, November 22, 2011- Invited Presentation “New drugs to treat infection with HCV: opportunities and challenges”.

Dr. Samantha Gruenheid

Committee Memberships
- Member, Postgraduate Awards Committee Review of internal studentship and fellowship applications, Faculty of Medicine, McGill University (Jan 2011-present).
- Member, Downtown Campus Facility Animal Care Committee, Review of animal use protocols, facilities inspections, Faculty of Medicine, McGill University (May 2009-present).
- McGill Faculty of Science Open House and Freshman Fair, Departmental representative at Microbiology and Immunology booth, undergrad and graduate, (October 2011).

Activities External to the University
- Canadian Society of Microbiologists – Vice Chair of Infection and Immunity section (2010-present).
- Student oral symposium judge: Canadian Society of Microbiologists Annual Meeting, 2011
- Poster judge: Canadian Society of Microbiologists Annual Meeting, 2011
- Université de Montreal Faculté de Médecine vétérinaire- Poster Judge: Université de Montreal Faculté de Médecine vétérinaire Journée de la recherche, 2011
- Rocky Mountain Laboratories (NIH/NIAID), Hamilton, Montana- Workshop for post docs on balancing starting a career and family, March 2011.

Dr. Herve Le Moual

Activities External to the University
- Member of the NSERC 1501 Research Tools and Instruments evaluation committee.

Dr. Joaquin Madrenas

Committee Memberships
- Chair, Academic Strategic Committee for Duff Building Redevelopment.
- Member, Project Design Committee for Duff Building Redevelopment.
Section IV- Academic and Community Service

- McGill University Space Committee.
- McGill University Selection Committee for Duff Building Renovation Proposals.

Activities External to the University
- Pre-Clerkship and Transition Year Committee, the University of Western Ontario.
- Clinician Scientist Program Committee, the University of Western Ontario.
- Chair, Nominating and Awards committee, the University of Western Ontario.
- Annual Performance Evaluation committee, the University of Western Ontario.
- Chair, Research committee, the University of Western Ontario.
- Chair, Mentorship committee Dr. Alp Sener, Department of Surgery, the University of Western Ontario.
- Mentorship committee Dr. Mansour Haeryfar, Department of Microbiology & Immunology, the University of Western Ontario.
- Mentorship committee Dr. Laksman Gunaratnam, Department of Medicine.
- Flow Cytometry Core Facility Users Committee, the University of Western Ontario.
- Confocal Microscope Governance Committee, the University of Western Ontario.
- Chairman, CIHR Immunology and Transplantation Panel.
- Member, FOCIS executive committee.
- Member, Medical Review Panel of the Canada Gairdner Foundation Awards.
- Member Royal College of Physicians and Surgeons of Canada Clinician Scientist White Paper Subgroup.
- Member, Canadian College of Reviewers.
- Referee, University of Karachi, Promotion & Tenure Committee.
- Referee, University of Western Ontario, Promotion & Tenure Committee.

Dr. Greg Matlashewski

Activities External to the University
- Meeting with the Director of Communicable Diseases in Bangladesh to determine future policy to treat visceral leishmaniasis with single dose AmBisome, March 2011.
- Meeting with the India Bihar State principal secretary of Health to discuss future policy directions on the diagnosis and treatment of visceral leishmaniasis in Bihar state, India, July 2011.
- Meeting with officials from the India Department of Health and Family welfare, Delhi, to discuss future policy directions on the diagnosis and treatment of visceral leishmaniasis in Bihar state, India, November 2011.

Dr. Martin Olivier

Committee Memberships
- Member of the Selection Committee, MUHC/Faculty of Medicine, PDF/Graduate Student Studentship Competition. (2009-present)
Activities External to the University

- Editorial Work: Guest Editor, PLoS Pathogens.
- Le Bar des Sciences (Québec Science), CEGEP St-Laurent, St-Laurent, Canada (2010).
- CBC Radio One Noon: Dendritic Cells and Steinman’s Nobel Prize (October 2011).

Dr. Ciro Piccirillo

Committee Memberships

- Center for the Study of Host Resistance (MUHC).
- McGill FQRNT- Center of Host-Parasite Interactions (CHPI).
- Montreal Diabetes Research Center (MDRC).
- Co-Leader, Infection and Immunity Axis, MUHC Research Institute.
- Research Council of the MUHC Research Institute.
- Director, McGill-MUHC FOCIS Center of Excellence.
- Director, MUHC RI Immunophenotyping platform.
- CIHR Human Immunology Network (CHIN), director of Montreal Node (Fall 2011).

Activities External to the University

- Chair of Immunology, Genetics and Cell Biology grant review panel of CDA.
- Member of the CDA National Research Council.
- Board of Governors for Immunology-Montreal.
- Editorial Board, Frontiers in Immunology.
- Member of CSI, AAI and FOCIS societies.
- Establishment of the Teaching Research Excellence to Girls (TREG) Program at Sacred Heart High School destined to raise awareness of high-achieving girls to the importance biomedical research in society.

Dr. Donald Sheppard

Committee Memberships

- Member, University Biosafety Committee.
- Section Head, Medical Mycology laboratory, MUHC.
- Program Director, Royal College Training Programs in Infectious Diseases and Medical Microbiology.
- MUHC Mycology Clinic
- Lutte contre le Cancer, Infectious Disease Representation for MUHC.

Activities External to the University

- Vice Chair, Awards Committee of the Association of Medical Microbiology and Infectious Disease Society of Canada.
- Member of Global Antifungal Advisory Board, Merck Pharmaceuticals.
**Dr. Silvia Vidal**

**Activities External to the University**
- Frontiers in Immunology, Associate Editor.
- CIHR Team in mutagenesis and infectious diseases (leader).

**Dr. Mark Wainberg**

**Committee Memberships**
- Director, McGill University AIDS Centre.

**Activities External to the University**
- Chairman, world health organization, committee on HIV drug resistance.
- Associate Editor of retrovirology.
- Associate Editor of PloS One.
- Member of editorial board, Antimicrobial Agents and Chemotherapy.
- Member of editorial AIDS.
- Member of four Ph.D. examining committees.
SECTION V
Consulting Activities
### Consulting Activities

<table>
<thead>
<tr>
<th>Name of Faculty Member</th>
<th>Private Sector Consulting Number of days</th>
<th>Public Sector Consulting Number of days</th>
<th>Other (please explain)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Albert Berghuis</td>
<td>7 days (NIH Granting Agency US Based)</td>
<td></td>
<td></td>
<td>7 days</td>
</tr>
<tr>
<td>Dr. Matthias Götte</td>
<td>5</td>
<td>3</td>
<td></td>
<td>8 days</td>
</tr>
<tr>
<td>Dr. Joaquín Madrenas</td>
<td>15</td>
<td>30</td>
<td>Consultant for CIHR, Canadian, American and International Universities, Gairdner Foundation, Federation of Clinical Immunology Societies (FOCIS), Bristol-Myers &amp; Squibb, Kidney Foundation of Canada, Royal College of Physicians and Surgeons of Canada,</td>
<td>45 days</td>
</tr>
<tr>
<td>Dr. Greg Matlashewski</td>
<td>10 days, WHO Geneva (non-paid)</td>
<td></td>
<td></td>
<td>10 days</td>
</tr>
<tr>
<td>Dr. Greg Matlashewski</td>
<td>2 days, Bill and Melinda Gates Foundation (non-paid)</td>
<td></td>
<td></td>
<td>2 days</td>
</tr>
<tr>
<td>Dr. Ciriaoco Piccirillo</td>
<td>21 days (GSK)</td>
<td></td>
<td></td>
<td>21 days</td>
</tr>
<tr>
<td>Dr. Ciriaoco Piccirillo</td>
<td>2 days (ProScan Rx Pharma Inc.)</td>
<td></td>
<td></td>
<td>2 days</td>
</tr>
<tr>
<td>Dr. Ciriaoco Piccirillo</td>
<td>4 days (Aegera Therapeutics Inc.)</td>
<td></td>
<td></td>
<td>4 days</td>
</tr>
<tr>
<td>Dr. Don Sheppard</td>
<td>4 days (Merck)</td>
<td></td>
<td></td>
<td>4 days</td>
</tr>
<tr>
<td>Dr. Don Sheppard</td>
<td>1 day (Pfizer)</td>
<td></td>
<td></td>
<td>1 days</td>
</tr>
<tr>
<td>Dr. Mark A. Wainberg</td>
<td>6 days (World Health Organisation)</td>
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<tr>
<td>Dr. Mark A. Wainberg</td>
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<td>Chair of WHO HIV Drug resistance committee.</td>
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