



Departmental Annual Review
June 1, 2009 to December 31, 2010

**Department of Microbiology
and Immunology**

Prepared by:

Professor Malcolm Baines, Chair

Department of Microbiology and Immunology

Annual Report from June 1, 2009 to December 31, 2010

SECTION I:

Description of the Department of Microbiology and Immunology:

The mission of the department is to teach undergraduate science and medical students the fundamental of science and technology of Microbiology and Immunology. Our programs are structured to provide all our trainees with the opportunity to develop their skills in basic research in infectious diseases and immunity and the discovery of the means to treat or prevent infectious diseases for the benefit of global health. Our Liberal, Major, Honours and Medical programs in Microbiology and Immunology provide basic instruction on the necessary scientific knowledge and practical laboratory scientific skills to prepare them for post-graduate studies. Our departmental academic members have established world-class research programs based on cutting their edge knowledge in their respective scientific subjects. Advanced research is essential for the training of undergraduate and graduate research students in the process of scientific discovery in microbiology and immunology and the graduation of highly qualified personnel with Masters' and Doctoral degrees. Our graduate students undertake original research on the molecular biology and pathogenesis of infectious agents using a wide range of research equipment. Our academic staff members' research funds provide and maintain the majority of the departmental research equipment and infrastructure. The members of the department of Microbiology and Immunology also provide opportunities for post-doctoral research trainees.

There are currently 15 tenure stream Professors in the department with expertise in bacteriology (5), immunology (5), virology (2), parasitology (2) and mycology (1). There are two Assistant, eight Associate and five Full Professors (Table-1). In addition, there are currently 32 other McGill Professors who are Associate Members of the department, 10 Adjunct Professors but no Faculty Lecturers (Table-2).

There are currently 9 staff members in the department responsible for the office affairs and supporting the departmental teaching and research programs. Ms. Petra Gaiser is the Departmental Administrator who manages the departmental office, administrative and technical staff and assists the chair. Ms. Jennifer DiMassimo is the Student Affairs Officer who manages the student affairs portfolio, tracking the undergraduate and graduate students and programs and recommending graduations. Ms. Elisa Torres assists the Departmental Administrator in financial matters and Ms. Saleema Nawaz assists the Academic Officer in the organization of undergraduate and graduate programs. Ms. Mei Lee is the Departmental Secretary, assisting the Chair, Departmental Administrator, Student Affairs Officer and other support staff as required. In support of departmental teaching and research, Ms. Aghdas Zamani coordinates technical support for the laboratory courses assisted by Mr. Richard Arthur on a temporary basis until Ms. Marie-Claude Ouimet will commence her new position as Course Technician. Ms. Shanhong Zhang, currently on maternity leave and temporarily replaced by Ms. Kathy Zarayan, is responsible for media production. Mr. Tom Ringer is responsible for maintenance of the teaching equipment, dishwashing facility and the disposal of contaminated laboratory materials.

SECTION I: Summary of achievements from June 1, 2009 to December 31, 2010.

During the period of June 2009 through December 2010, there were many major accomplishments including the submission of a comprehensive cyclical review of the growth and accomplishments of the department of Microbiology and Immunology for the period 2000 through 2009.

In February 2010, there was a departmental Academic Retreat at Tadjia Hall on the Macdonald Campus and, with the assistance of Dr. Mariela Tovar, Susan Cowan and Marcy Slapcoff of the McGill Teaching and Learning Services, we reviewed our undergraduate teaching programs and redefined our teaching objectives for our courses and programs. As Immunology is a subject of particular interest to the Ministry of Education (MELS), it was proposed that the current Fall-term introductory course in Microbiology and Immunology (MIMM211) would become a course focused on Introductory Microbiology and a new Winter-term course on Introductory Immunology would be created (proposed as MIMM214). This addition would balance the first year teaching between both terms and maintain a departmental focus for our students in both terms. The addition of a required course will require some minor program changes.

A Faculty Selection Committee was struck in June, 2009 to search for the next chair of the Department of Microbiology and Immunology. Professors Baines, Cousineau, Coulton and Piccirillo were elected from our department to serve on the faculty committee. This process attracted many highly desirable national and international applicants and through the resulting selection process, presentations and interviews identified a short list of highly qualified applicants. This process will be concluded in 2011 so that the successful candidate could be in place for the 2011-2012 academic year.

Assistant Professor Jorg Fritz was recruited to our department in cooperation with the Complex Traits Group of the Bellini Life Sciences Institute in July, 2009. In August, 2009, Assistant Professor Shan-Lu Liu left McGill to join the Department of Molecular Microbiology & Immunology at the University of Missouri as an Associate Professor. In June 2010, Assistant Professor Donald Sheppard was promoted to Associate Professor with tenure on the basis of his outstanding teaching and research as a Clinician-Researcher on infectious diseases caused by yeasts and fungi. Dr. Martin Olivier was recommended for promotion to Full Professor for his outstanding internationally recognized research in parasitology. Professor Gregory Marczynski received a 15 year service award and Professor James Coulton received a 30 year service award.

Among many notable visitors to our department, Dr. Alan Bernstein, Director of the Canadian Institutes for Health Research talked with our students about Canadian research and its significant affects on global health. Dr. James P. Allison, David H Koch Chair of Immunology, Director of the Ludwig Center of Cancer Immunotherapy at the Sloan Kettering Cancer center presented his insights into cancer immunotherapy. Dr. Marc Ouellette, Scientific Director of the CIHR Institute for Infection and Immunity recounted his odyssey in the study of antimicrobial resistance to our students. (Table-9).

There were several significant changes that occurred among the support staff in Microbiology and Immunology. Ms. Maria Panaritou left her role as Course Coordinator in the Teaching Laboratories and the University to join her family in Toronto. In recognition of her services to McGill, Ms. Panaritou was presented with a 20 year service award. Mr. Richard Arthur was recruited to temporarily replace Ms. Panaritou. Ms. Shanhong Zhang took maternity leave in 2010 and Ms. Kathy Zarayan was temporarily recruited for the preparation of microbiological media and materials for the teaching laboratories and the clinical diagnostic laboratories. Ms. Marie-Claude Ouimet moved from a position as Research Technician to Course Technician. In recognition of her services to McGill, Ms. Ouimet was presented with a 15 year service award.

SECTION I: FACULTY LISTING

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

Dr. Malcolm Baines (Interim Chairman, 2009-present)

Dr. Zafer Ali-Khan	Dr. Jörg Fritz*	Dr. Greg Marczynski
Dr. Dalius Briedis	Dr. Matthias Götte	Dr. Greg Matlashewski [§]
Dr. James Coulton	Dr. Samantha Gruenheid	Dr. Robert Murgita
Dr. Benoit Cousineau	Dr. Herve Le Moual	Dr. Ciriaco Piccirillo
Dr. Sylvie Fournier	Dr. Shan-Lu Liu*	Dr. Donald Sheppard

* Dr. Fritz arrived in June, 2010 and Dr. Liu left in August 2010.

[§] On leave of absence with WHO, Geneva starting June 2009.

A.1. List of Faculty Members Cross-Appointed in the Department

Dr. Albert Berghuis	Dr. Silvia Vidal
Dr. John Hiscott [‡]	Dr. Mark Wainberg

[‡] On leave of absence with VGTI, Port St. Lucie, Florida starting June 2010.

B.1. List of Faculty with secondary appointments

Adjunct Professors:

Dr. Jacques Archambault	Dr. Byong Lee	Dr. Rafick-Pierre Sekaly [†]
Dr. Albert Descoteaux	Dr. Andrew Makrigiannis [†]	Dr. Yoong-Kyung Suh
Dr. Peter Lau	Dr. Yaël Mamane	Dr. Dan Zilberstein
Dr. Vibuti Dave [†]		

B.2. Affiliated Members:

Dr. Shan Cen	Dr. Maziar Divangahi
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B.3. Associate Members:

Dr. Jack Antel	Dr. Arnold Kristof	Dr. Kostas Pantopoulos
Dr. Amit Bar-Or	Dr. Chen Liang	Dr. Joyce Rauch
Dr. Marcel Behr	Dr. Vivian Loo	Dr. Michael Reed
Dr. Miguel Burnier	Dr. Ameer Manges	Dr. Paula Ribeiro
Dr. Nicholas Christou	Dr. Mark Miller	Dr. Stephane Richard
Dr. Andre Dascal	Dr. Andrew Mouland	Dr. Petra Rohrbach
Dr. Florence Dzierszinski	Dr. Jay Nadeau	Dr. Maya Saleh
Dr. Anne Gatignol	Dr. Marianna Newkirk	Dr. Christos Tsoukas
Dr. Sabah Hussain	Dr. Martin Olivier	Dr. Bernard Turcotte
Dr. Armando Jardim	Dr. Dao Nguyen	Dr. Brian Ward
Dr. Antonis Koromilas	Dr. Robert Palfree	Dr. Ji Zhang

[†] Left McGill University between June 2009 and December 2010.

SECTION II: Summary of achievements from June 1, 2009 to December 31, 2010.

A. Undergraduate teaching and learning:

The disciplines of microbiology and immunology are natural partners in research in the context of the identification, understanding and treatment of infectious diseases using modern methods of cell and molecular biology and genetics to study basic life processes. The Department of Microbiology and Immunology consists of 15 interactive scientists who study microbial genetics and pathogenesis, viral molecular genetics and pathogenesis, cell and molecular immunology, pathogenic yeasts and fungi and parasitology. Students registered in the Department are therefore exposed to these interrelated areas and receive an excellent background education in basic biology and chemistry as well as in the more applied areas of biotechnology and research. The Microbiology and Immunology Department continue to attract students of outstanding quality to our undergraduate programs where they receive a comprehensive science education together with opportunities for personal involvement in fundamental laboratory based research.

The statistics reported in this section refer to the 18 month period between 1 June 2009 and 31 December 2010. There were 293 undergraduate students registered in the Department of Microbiology and Immunology in the Major (257), Honours (29) and Liberal/Faculty (7) programs (Tables-1, 3 and 4). In addition, 2227 science students were registered in our undergraduate courses as part of their science education (Table-1). The Department of Microbiology and Immunology taught 223 full-time equivalent (FTE) students in this reporting period (Tables-2 and 5). From June 2009 through December 2010, a total of 106 students graduated with an average CGPA of 3.25, attesting to the outstanding quality and academic performance of our students. 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 Honours research project courses in Microbiology and Immunology (MIMM502D1/2, 29 students) and Immunology (PHGY419D1/2, 12 students) provides our most research oriented students with a full-year of intensive (12 credit) training in basic and applied research with a Professor-supervisor. The Honours students graduated with a CGPA 3.77 and many went on to graduate training, Medicine, Dentistry and other professions. 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. The active involvement of our students in these introductory research courses and their positive experiences convinced many to continue into graduate research programs. The student evaluation of teaching over the 15 courses taught in Microbiology and Immunology averaged 3.98/5.00 attesting to the high quality of teaching by our professors. All the undergraduate and graduate courses are entirely taught by Full, Associate, Assistant or Adjunct Professors of the department of Microbiology and Immunology. 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. Mr. James Holden, a second year student in our major program was awarded the Major Hiram Mills Scholarship in science. Mr. "Sean" Xia Guo received the E. G. D. Murray Prize for the best graduating student in Microbiology and Immunology. The 2010 NSERC Summer Undergraduate Research Award recipients were Mr. Vladimir Dragan and Mr. Victor Tsang.

B. Graduate teaching and learning:

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 defences against disease. The research projects for the graduate students are guided by our professors and the departmental Graduate Studies Committee ensures that the students' projects, progress and performance are tracked and evaluated in a fair and uniform manner. We trained 78 graduate students in 2009-2010 and have supported their studies with average stipends of \$20,578/year. The average CGPA of newly admitted students is currently 3.65 and most students begin as M.Sc. candidates in September or January. Thirty three graduate students (46% of the graduate students) received competitive external graduate fellowships from several agencies including CIHR, FRSQ, NCIC, etc totalling \$783,368. The department received internal funding from McGill University totalling \$1,751,891 to support our graduate students. The departmental F. C. Harrison and Jacob Rozanis fellowships totalling \$58,250 were awarded to 20 outstanding graduate students on the basis of academic achievement (Table-8). Each student admitted to a program of graduate studies in Microbiology and Immunology receives a minimum graduate stipend of \$14,000 plus relevant registration fees. Together with competitive graduate studentships, our students receive an average annual stipend of \$18,459 in support of their living expenses (Table-7).

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 Professors 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 June 2009 through December 2010, 16 M.Sc. and 32 Ph.D. students successfully defended their theses and graduated (Table-6). Among many students who received awards, Ms. Samantha Lee and Ms. Nadia Al-Bader shared the Wilfred Yaphe award for the best M.Sc. Thesis and Mr. Philippe Pouliot received the award for the best Ph.D. thesis.

A total of 6 Post Doctoral Fellows were trained in our department in 2009-2010.

SECTION II: Research

Among our 15 Departmental academic staff members, 7 receive salary support from provincial FRSQ (2) or national CIHR (1) or CRC (4) sources reducing the impact of academic salaries on the McGill budget. One Professor receives a Dawson award to a level approximately equivalent to that of CRC awards. Virtually all our Professors have one or more research grants (FRSQ, NSERC, CIHR, NIH, and private foundations) to support their research projects and trainees totalling \$4,387,437. They published 140 scholarly articles in peer-reviewed journals from June 2009 to December 2010 (Appendix II). All presented their research to numerous scholarly meetings, received awards and contributed to their respective academic and research institutions.

Section II – TABLE I-VIII:

TABLE I: Number of undergraduate students taught in Fall 2009/Winter 10 and Fall 2010

	<u>Fall</u>	<u>Winter</u>	<u>Total</u>	<u>Fall</u>
Undergraduate course enrolment	850	591	1441	786
Faculty of Science				
Microbiology and Immunology Students:	293	276		274
I.H.I.: Students	25	24		25
Number of students taught in courses by staff outside dept.				
B.Sc.	180	179		152
BA/Sc.	51	24		49
Other	34	19		37
	583	522		537

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

2005-2006	2006-2007	2007-2008	2008-2009	<u>Fall 09 & Winter 10</u>	<u>Fall term 2010</u>
148	148	135	147	146	77

TABLE 3: Enrolment in undergraduate programs in Microbiology & Immunology Fall 2009, Winter 2010, Fall 2010

	<u>Fall 2009</u>				<u>Winter 2010</u>				<u>Fall 2010</u>			
	U1	U2	U3	Total	U1	U2	U3	Total	U1	U2	U3	Total
Majors	106	81	70	257	101	77	64	242	95	87	66	248
Honors			29	29			28	28			20	20
Core Sci Comp (Liberal)		2	4	6		2	2	4		2	3	5
Faculty			1	1			2	2				
Internship program										1		1
				293				276				274

Table 4: Undergraduate students enrolled in Dept. during the past five years

<u>2005-06</u>	<u>2006-07</u>	<u>2007-08</u>	<u>2008-09</u>	<u>Fall 2009</u>	<u>Winter 2010</u>	<u>Fall 2010</u>
306	304	275	285	293	276	274

TABLE 5: Undergraduate enrolment and course FTE's - Fall 2009/ Winter 2010/ Fall 2010

FALL 2009	Course Title	Credits	Enrolment	Credits * enrol.	FTE
MIMM 211	Intro. Microbiology	3	231	693	23
MIMM 212	Microbiology Lab	2	121	242	8
MIMM 323	Microbial Physiology	3	96	288	10
MIMM 324	Fund. Virology	3	124	372	12
MIMM 386D1	Micro. & Imm. Lab	3	87	261	9
MIMM 396	Micro. Research Project	3	3	9	0.3
MIMM 397	Imm. Research Project	3	8	24	0.8
MIMM 414	Advanced Immunology	3	53	159	5
MIMM 465	Bactiral Pathogenesis	3	99	297	10
MIMM 498	Library Research Project Imm.	1	1	1	0
MIMM 499	Library Research Project Micro.	1	1	1	0
MIMM 501D1	Honors Imm Res Project	6	8	48	2
MIMM 502D1	Honors Micro Res Project	6	20	120	4
		39	850	33150	84
WINTER 2010					
MIMM 314	Immunology	3	229	687	23
MIMM 386D2	Micro. & Imm. Lab	3	84	252	8
MIMM 387	Applied Micro. & Imm.	3	54	162	5
MIMM 396	Micro. Research Project	3	3	9	0.3
MIMM 397	Imm. Research Project	3	3	9	0.3
MIMM 413	Parasitology	3	84	252	8.4
MIMM 466	Viral Pathogenesis	3	101	303	10.1
MIMM 498	Library Research Project Imm.	1	0	0	0
MIMM 499	Library Research Project Micro.	1	0	0	0
MIMM 501D2	Honors Imm Res Project	6	8	48	2
MIMM 502D2	Honors Micro Res Project	6	20	120	4
MIMM 509	Inflammatory Processes	3	5	15	0.5
		38	591	1857	62
FALL 2010					
MIMM 211	Intro. Microbiology	3	211	633	21
MIMM 212	Microbiology Lab	2	109	218	7
MIMM 323	Microbial Physiology	3	90	270	9
MIMM 324	Fund. Virology	3	113	339	11
MIMM 386D1	Micro. & Imm. Lab	3	86	258	9
MIMM 396	Micro. Research Project	3	4	12	0.4
MIMM 397	Imm. Research Project	3	0	0	0
MIMM 414	Advanced Immunology	3	53	159	5
MIMM 465	Bactiral Pathogenesis	3	100	300	10
MIMM 498	Library Research Project Imm.	1	1	1	0
MIMM 499	Library Research Project Micro.	1	0	0	0
MIMM 501D1	Honors Imm Res Project	6	7	42	1
MIMM 502D1	Honors Micro Res Project	6	12	72	2.4
		39	786	2304	77

TABLE 5a. Student evaluation of undergraduate courses in Microbiology & Immunology 2009 – 2010

course #	number of completed evaluations	evaluation (1=poor 5=excellent)	course #	number of completed evaluations	evaluation (1=poor 5=excellent)	course #	number of completed evaluations	evaluation (1=poor 5=excellent)
Fall 2009			Winter 2010			Fall 2010		
MIMM 211	70	4.45/5.00	MIMM 314	56	4.05/5.00	MIMM 211	58	4.35/5.00
MIMM 212	54	4.65/5.00	MIMM 386D2	24	3.6/5.00	MIMM 212	53	4.45/5.00
MIMM 323	28	3.55/5.00	MIMM 387	7	3.8/5.00	MIMM 323	27	3.30/5.00
MIMM 324	42	3.45/5.00	MIMM 413	24	3.35/5.00	MIMM 324	40	3.55/5.00
MIMM 386D1	results 201001		MIMM 466	22	3.60/5.00	MIMM 386D1	results 201101	
MIMM 414	19	4.1/5.0	MIMM 501D2	results 502D2		MIMM 414	17	4.00/5.00
MIMM 465	32	3.9	MIMM 502D2	6	4.3/5.00	MIMM 465	14	4.20/5.00
			MIMM 509	3	5.00/5.00			
	average	4.01		average	3.95		average	3.97

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 5b. Undergraduate students graduations 2009-10

Fall	2009	Winter	2010	Spring	2010	Fall	2010
Liberal program	1	Liberal program	3	Liberal program	1	Liberal program	1
Majors program	5	Honors program	1	Honors program	27	Honors program	1
	6	Majors program	7	Majors program	43	Majors program	3
			11	IHI	12		5
				Faculty	1		
TOTAL	101				84		

TABLE 6. Total Graduate Degrees granted over the past four years

	2006-2007		2007-08		2008-09		2009-10		Fall 2010	
	registered	graduated	registered	graduated	registered	graduated	registered	graduated	registered	graduated
M.Sc.	36	9	26	13	35	9	31	11	40	5
Ph.D.	41	10	49	3	50	4	47	14	32	2
	77	19	75	16	85	13	78	25	72	7

TABLE 7. Graduate student and post-doctoral fellow enrolment and funding

	2005-2006	2006-07	2007-08	2008-09	2009-10	Fall 2010
Total Number of:						
Graduate Students	77	77	75	85	78	72
Post Doctoral Fellows	3	4	4	10		
Number of New Graduate Students	30	18	26	33	25	13
Average CGPA of Incoming Students	3.64	3.60	3.46	3.49	3.66	3.65
Fellowships/ Scholarships/ Bursaries	\$425,488	482,811	\$697,410	\$747,345		\$1,066,902
Teaching/ Demonstratorships/ Service	\$99,048	81,693	\$74,104	\$78,877		\$101,876
**Research Assistantships	\$1,005,365	869,850	\$713,350	\$922,900		\$1,398,486
Total Funding	\$1,529,901	1,432,354	\$1,484,863	\$1,749,122		\$2,567,265
Average Funding per Registered Trainee per annum	\$19,869	18,602	\$19,798	\$20,578		\$18,459
					\$29,227/19 mths*	

**This item is not listed on the forms provided by the Fellowships Office. These forms appear under IV Supplementary Information, b) Students.

TABLE 8.

Funding of graduate students by source

		Number of Awards	Total Amount
A.	<u>Departmental Awards</u>		
1.	F.C. Harrison Fellowships	20	\$58,250
	TOTAL	20	\$58,250
B.	<u>Internal Funding</u>		
1	Differential Fee Waiver	5	\$28,900
2	Faculty of Medicine Internal Award	1	\$8,000
3	PGF Principals Graduate Fellowship	30	\$67,500
4	ProGF Provost Graduate Fellowship	42	\$108,500
5	Research Assistants	75	\$1,398,486
6	Teaching/Demonstrators/Service	30	\$140,505
	TOTAL	183	\$1,751,891
C.	<u>External Fellowships</u>		
1.	CIHR	11	\$373,162
2.	Vanier	1	\$50,000
3.	FRSQ	7	\$137,666
3.	GEPROM	2	\$22,000
4.	Mexican Scholarship	2	\$24,000
5.	MS Society	1	\$20,000
6.	MUHC	4	\$33,824
7.	NCIC	1	\$20,000
8.	ON-QC Fellowship	1	\$10,000
9.	NSERC	2	\$72,716
10.	Neuroinflammation	1	\$20,000
			\$783,368
D.	<u>Loans and Bursaries</u>		
1.	Quebec Government Student Loan	1	\$12,384
	TOTAL	34	\$795,752
	<u>GRAND TOTAL</u>	<u>237</u>	<u>\$2,605,893</u>

TABLE 9: List of invited scientists visiting the Microbiology and Immunology Dept.

GUEST SPEAKER	TOPIC	DATE
Dr. Maya Saleh Assistant Professor, Department of Microbiology and Immunology, McGill University	“Inflammatory caspases and inhibitor of apoptosis proteins in the control of immunity in health and disease”	June 11, 2009
Dr. Dan Zilberstein Adjunct Professor, Faculty of Biology Technion-Israel Institute of Technology	“Functional genomics of amino acid transporters in Leishmania”	Sept 18, 2009
Dr. Jörg Fritz Assistant Professor, Department of Microbiology and Immunology, McGill University	“Nod1- and Nod2-mediated innate recognition by stromal cells govern acquired immune responses”	Oct 22, 2009
Dr. Brian Ward Associate Professor, Department of Microbiology Montreal General Hospital	“From bedside to bench: molecular actions of retinoids in viral infections”	Oct 29, 2009
Dr. Michel Desjardins Chaire, Département de pathologie et biologie cellulaire Université de Montréal	“Autophagy and antigen presentation during HSV-1 infection”	Nov 12, 2009
Dr. Mark Miller Head, Division of Infectious Diseases, Jewish General Hospital, Montreal	“Healthcare-associated catastrophes: Epidemiology and genomics of Quebec's outbreak of <i>C. difficile</i> ”	Nov 19, 2009
Dr. Lawrence Kleiman McGill AIDS Centre Lady Davis Institute for Medical Research Department of Microbiology and Immunology McGill University	“Aspects of HIV-1 assembly that facilitate the role of tRNA ^{Lys3} as the primer for initiating reverse transcription”	Nov 26, 2009
Dr. Antonis Koromilas Professor, Lady Davis Institute for Medical Research Department of Oncology McGill University	“Novel mechanisms of the tumour suppressor function of Stat1”	Dec 10, 2009
Dr. Amy Blum Assistant Professor, Department of Chemistry, McGill University	“Reagent-less electronic nanosensors assembled on a viral scaffold”	Jan. 28, 2010

GUEST SPEAKER	TOPIC	DATE
Dr. Guy Lemay Professeur, Département de Microbiologie et Immunologie Université de Montréal	“Using the Novel Reverse Genetics Approach to Study Reovirus Proteins Involved in Viral Replica”	Feb. 4, 2010
Dr. Veronika Von Messling Professeure, INRS-Institut Armand- Frappier Université du Québec	“Host responses to Influenza: Insights from the Ferret Model”	Feb. 18, 2010
Dr. Yael Mamane Program Biology, Anti-Viral Research, Merck Frosst	“Anti-HCV Drug Discovery at Merck”	Feb. 25, 2010
Dr. Philippe Gros Professor, Department of Biochemistry, McGill University	“Genetic analysis of host response to the Plasmodium parasite”	March 4, 2010
Dr. Petra Rohrbach Assistant Professor, Institute of Parasitology, MacDonald Campus - McGill University	“Live cell imaging of Plasmodium falciparum: Shedding light on biological processes”	March 11, 2010
Dr. Claude Perreault Professor, Institute for Research in Immunology and Cancer (IRIC) Université de Montréal	“The molecular definition of the immune self”	March 18, 2010
Dr. Tatiana Scorza Professeure, Département des Sciences Biologiques Université du Québec à Montréal	“Malarial inflammation: effects on bone metabolism and osteoblast/osteoclast interactions”	March 25, 2010
Dr. Leigh Knodler Laboratory of Intracellular Parasites Rocky Mountain Laboratories, NIAID, NIH	“Salmonella and polarized epithelial cells. In or out?”	April 1, 2010
Dr. Jean Celli Chief, Laboratory of Intracellular Parasites Rocky Mountain Laboratories	“Cell biology and Genomics of Francisella tularensis intracellular pathogenesis”	April 1, 2010
Dr. Florence Dzierszynski Assistant Professor, Institute of Parasitology McGill University	“Success story of an intracellular parasite: interactions between Toxoplasma gondii and the antigen presentation pathways”	April 15, 2010

GUEST SPEAKER	TOPIC	DATE
<p>Dr. Maziar Divangahi Assistant Professor, Department of Medicine and Microbiology and Immunology Meakins-Christie Laboratory - McGill University</p>	<p>“How dying macrophages bridge innate and adaptive immunity to pulmonary tuberculosis”.</p>	<p>April 22, 2010</p>
<p>Dr. Eric Deziel Professor – Investigator INRS – Institut Armand-Frappier</p>	<p>"A new quorum sensing system in Pseudomonas aeruginosa".</p>	<p>Sept. 9, 2010</p>
<p>Dr. J.P. Allison Director, Ludwig Center of Cancer Immunotherapy</p>	<p>Checkpoint Blockade in Tumor Immunotherapy: New Insights and Opportunities</p>	<p>Sept. 23, 2010</p>
<p>Dr. Anastasia Nijnik Post-Doctoral Fellow Centre for Microbial Disease and Immunity Research University of British Columbia</p>	<p>"Hematopoietic System: Genomic Integrity, Transcriptional Regulation, and Novel Approaches to Modulation of Hematopoiesis."</p>	<p>Sept. 29, 2010</p>
<p>Dr. France Daigle Professeure adjointe Université de Montréal</p>	<p>"Of Mice and Men: Salmonella knows the difference."</p>	<p>Sept. 30 , 2010</p>
<p>Dr. Jacques Archambault Director of Molecular Virology IRCM - Institut de Recherches Cliniques de Montreal</p>	<p>"Host factors regulating papillomavirus genome replication."</p>	<p>Oct. 7, 2010</p>
<p>Dr. Russell Jones Assistant Professor, Dept. of Physiology, McGill University</p>	<p>"Metabolic control by the LKB1-AMPK pathway: implications for immunity."</p>	<p>Oct. 14, 2010</p>
<p>Dr. Jude Uzonna Associate Professor, Dept. of Immunology, University of Manitoba</p>	<p>"Persistent Parasites and anti-Leishmania immunity: implications for vaccine designs and vaccination strategies."</p>	<p>Oct. 21, 2010</p>
<p>Dr. Ines Colmegna Associate Professor, Dept. of Immunology, University of Manitoba</p>	<p>"Somatic Stem Cell Aging in Rheumatoid Arthritis."</p>	<p>Oct. 28 , 2010</p>
<p>Dr. Sylvain Bourgoin Professor, Department of Anatomy and Physiology, Faculty of Medicine, Université Laval.</p>	<p>“The cytohesin-1-Arf6 signaling axis in neutrophils: The orchestra-chief conductor of β2 integrins?”</p>	<p>Nov. 4, 2010</p>

GUEST SPEAKER	TOPIC	DATE
Dr. Marc Ouellette Professor, Department of Medical Biology, Faculty of Medicine, Université Laval	“An Odyssey in Molecular Studies of Antimicrobial Resistance”	Nov. 5, 2010
Dr. Connie Krawczyk Senior Research Biologist, Merck Frosst Canada	“Shaping T cell responses; the Power of Dendritic Cells”	Nov. 10, 2010
Dr. Kevin Wilson Assistant Professor, Department of Biochemistry, University of Alberta.	“Antibiotic interplays with translational GTPases: Ramifications for bacterial physiology”	Nov. 11, 2010
Dr. Dao Nguyen Assistant Professor, Department of Medicine, McGill University.	“The role starvation responses in Pseudomonas aeruginosa antibiotic tolerance”	Nov. 18, 2010
Dr. Laurent Sabbagh Assistant Research Professor, Leukemia & Lymphoma Society Special Fellow, University of Toronto	“Signaling lymphocyte survival through TRAF1”	Nov. 25, 2010
Dr. Alexandra-Chloe Villani Post-Doctoral Associate Broad Institute of MIT and Harvard Boston, USA	“Genetic investigation of inflammatory bowel disease and post-infectious irritable bowel syndrome: the contribution of innate immunity candidate risk variants”	Dec. 2, 2010

SECTION II: Honors, Awards, Official Positions

Name:	Professor/Dr. Zafer Ali-Khan
Involvement INSIDE Scholarly Community:	Chair, Graduate Committee, Department of Microbiology and Immunology until 2010 Ad hoc reviewer of a manuscript submitted to Biochim Biophys Acta 2009
Name:	Professor/Dr. Malcolm Baines
Involvement Scholarly Community:	Acting Chairman of the Department of Microbiology and Immunology. Past President of the McGill Association of University Teachers (MAUT). MAUT representative to the Provosts Task Force on Non-Tenure Track Academic Staff. Chair of the MAUT Committee for Policies for the Non-tenured Staff. Member of the MAUT Collegiality Committee. Marshal for the Faculty of Science/Medicine/GS Convocation.
Name:	Professor/Dr. Albert Berghuis
Honors, Awards, Official Positions (held in Professional or Learned Societies)	Canada Research Chair in Structural Biology (Tier 1) (7 year award)
Conferences/Symposia	Structure guided lead discovery for next-generation streptogramins that are less susceptible to antibiotic resistance The 2nd International Symposium on Combinatorial Sciences in Biology, Chemistry, Catalysts and Materials (SCS 09), Beijing, China, September, 2009. [Cancelled due to illness of spouse] 17 Structure guided drug discovery for combating aminoglycoside resistance. The 2nd Annual Pharmaqam Symposium, Montreal, Quebec, June, 2010. [Talk given on my behalf by Oliver Baettig]
Invited Speaker/Sabbatical, etc:	Structure-guided lead development for combating antibiotic resistance. Meakins-Christie Laboratories, McGill University, Montreal, Quebec. December, 2009. 51 Structural biological studies for combating antibiotic resistance. Department of Biomedical Engineering, McGill University, Montreal, Quebec. February, 2010. 52 Structural biological studies of antibiotic resistance mechanisms. Department of Biochemistry and Molecular Biology, Merck Frosst Centre for Therapeutic Research, Kirkland, Quebec. April, 2010
Involvement Scholarly Community:	National Institutes of Health – ad hoc member DDR (USA: 2005 (1 time), 2009 (2 times), 2010 (1 time)) National Institutes of Health/full member DDR (USA: 2010-2014) Referee panel for the X6A beam line at the National Synchrotron Light Source (USA based; 2002-2010)

continued	College of Reviewers for the Canada Foundation for Innovation New Opportunities Program (2004-2009)
Involvement outside Scholarly Community:	<p>Alberta Heritage Foundation for Medical Research</p> <p>Alberta Ingenuity Fund</p> <p>Canadian Foundation for Innovation</p> <p>Canadian Institutes of Health Research (MRC of Canada)</p> <p>Canadian Space Agency Microgravity Sciences Program</p> <p>Deutsches Krebsforschungszentrum (German Cancer Research)</p> <p>Hospital for Sick Children Foundation</p> <p>Michael Smith Foundation for Health Research</p> <p>National Cancer Institute of Canada</p> <p>National Research Council of Canada</p> <p>National Sciences and Engineering Research Council of Canada</p> <p>Netherlands Organization for Scientific Research (NWO)</p> <p>Petroleum Research Fund (USA based)</p>
Name:	Professor/Dr. James Coulton
Honors, Awards, Official Positions (held in Professional or Learned Societies)	<p>Fellow, American Academy of Microbiology</p> <p>Academic and Research Microbiologist, Canadian College of Microbiologists</p> <p>Executive Member, Groupe d'étude des protéines membranaires (GEPROM), Université de Montréal (FRSQ)</p> <p>Co-Director, Cellular Dynamics of Macromolecular Complexes - CREATE, Université de Montréal (NSERC)</p>
Inter-University and/or International Collaboration (teaching/research):	<p>Dr. Mario Jacques: Université de Montréal, St-Hyacinthe; "Membrane proteomics of <i>Actinobacillus pleuropneumoniae</i>";</p> <p>Dr. Michael Mourez: Université de Montréal, St-Hyacinthe; « Nouvelles initiatives » du CRIP_Le récepteur de AIDA-1</p> <p>Dr. Christian Baron, Université de Montréal; Projet novateur de GEPROM_Analysis of the type IV secretion system by phage display: complex interactions of core membrane proteins</p> <p>Dr. Colin Kleanthous, University of York, UK; Molecular microbiology of membrane protein interactions</p>
Conferences/Symposia	Cottreau, A., Biot-Pelletier, D.M.P., Bostina, M., Rouiller, I., and Coulton, J.W. (2010)
	TonB, ExbB and ExbD form a complex in the cytoplasmic membrane of <i>Escherichia coli</i> . Annual Meeting, Canadian Society of Microbiologists, Hamilton, ON, Poster MC60
Conferences/Symposia	Biot-Pelletier, D.M.P., Croteau, N., Levey, K.T., Plesa, M., Hancock, M.A., Bostina, M., Rouiller, I., and Coulton J.W. (2010)
	Transducing energy across the periplasm of <i>E. coli</i> : interactions of integral membrane proteins ExbB and ExbD. 53 rd Annual Meeting, Canadian Society of Biochemistry, Molecular & Cellular Biology, Banff, AB, Poster 61

continued	Deme, J.C., Carter, D.M., Hancock, M.A., and Coulton, J.W. (2009)
Conferences/Symposia	Protein-protein interactions in the periplasm of <i>Escherichia coli</i> participate in siderophore transport. Annual Meeting, Canadian Society of Microbiologists, Montreal, QC, Abstract SC14. Winner of CSM Graduate Student Award Competition for Best Presentation Udho, E., Jakes, K., Buchanan, S., James, K.J., Coulton, J.W. , and Finkelstein, A. (2009) Reconstitution of TonB-dependent transporters in planar lipid bilayers. Biophysical Society 53 rd Annual Meeting, Boston, MA, Poster 2748
Invited Speaker/Sabbatical, etc:	Gordon Research Conference on Bacterial Cell Surfaces, New London, NH, June 27-July 1, 2010, Drs. J. Tommassen and C. Jacobs-Wagner, Co-Chairs; “Transducing energy across the periplasm of <i>E. coli</i> : interactions of integral membrane proteins ExbB and ExbD”.
Involvement Scholarly Community:	<ul style="list-style-type: none"> • Member, Advisory Committee, Sheldon Biotechnology Center • Member, Health Sciences Library Advisory Committee, Faculty of Medicine • Chair, Undergraduate Committee, Department of Microbiology and Immunology • Member, Seminars Committee, Department of Microbiology and Immunology • Member, Equipment Committee, Department of Microbiology and Immunology
Involvement OUTSIDE Scholarly Community:	<ul style="list-style-type: none"> • Reviewer: National Synchrotron Light Source, Brookhaven, beamline X6A • Reviewer: grant applications from CIHR, NSERC • Reviewer: Journal of Bacteriology, Molecular Microbiology, Journal of Biological Chemistry
Name:	Professor/Dr. Benoit Cousineau
Honors, Awards, Official Positions (held in Professional or Learned Societies)	William Dawson Scholar Award (McGill) (2008-2013) Chercheur Boursier Senior (2009-2012) Hugh and Helen McPherson Memorial Award (McGill) (2008-2009)
Honors, Awards, Official Positions (held in Professional or Learned Societies)	<u>Society membership:</u> 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)
Conferences/Symposia/	Cousineau, B. (2010). Engineering the gram-positive bacterium <i>Lactococcus lactis</i> as live vaccines. Soup and Science, McGill University, Montréal, Québec, Canada.

<p>Invited Speaker/Sabbatical, etc.</p>	<p>Cousineau, B. (2010). Épissage en <i>trans</i> d'un intron de groupe II chez la bactérie Gram-positif <i>Lactococcus lactis</i>. Département des Sciences Biologiques, Université du Québec à Montréal, Montréal, Québec, Canada.</p> <p>Cousineau, B. (2010). Épissage en <i>trans</i> d'un intron de groupe II chez la bactérie Gram-positif <i>Lactococcus lactis</i>. Département de Biologie, Université de Sherbrooke, Québec, Canada.</p> <p>Cousineau, B. (2009). <i>Trans</i>-splicing versatility of the LI.LtrB group II intron from <i>Lactococcus lactis</i> : experimental support for the “five easy pieces” theory. EASTERN RIBO CLUB 2009, Hotel Chéribourg, Orford, Québec, Canada.</p>
<p>Scholarly Community:</p>	<p>Chair of the Equipment Committee</p> <p>Member of the Committee for the Future/Renovation of the Lyman Duff Building</p> <p>Member of the Search Committee for a new Chair for MIMM</p> <p>Member of the Graduate Studies Committee</p> <p>Member of the Undergraduate Studies Committee</p> <p>Member of the Fellowships Committee</p> <p>Microbiology and Immunology Academic Adviser</p> <p>Microbiology and Immunology Academic Chief Adviser</p> <p>Microbiology and Immunology Study Away/Exchange Adviser</p> <p>Numerous Academic Committees (MSc, PhD, Comprehensive exams, MSc to PhD switch, thesis defence)</p>
<p>Involvement outside Scholarly Community:</p>	<p>Host 2 students from John Abbott College for 2 days</p> <p>Member of the local organizing committee for the Canadian Society of Microbiologists 59th Annual Conference (2009), Concordia University, Montreal</p> <p>Co-organizer of the 9th Annual Quebec Parasitology Symposium of the CHPI (2009). McGill University, Montréal</p>
<p>Name:</p>	<p>Professor/Dr. Sylvie Fournier</p>
<p>Inter-University and/or International Collaboration (teaching/research):</p>	<p>CIHR Strategic Training Program: Integrated Training Program in Basic and Clinical Aspects of Neuroinflammation (U. Montreal, U.McGill, UQUAM)</p> <p>Quebec-Ottawa Regional Research and Training Centre of the endMS Research and Training Network</p>
<p>Conferences/Symposia</p>	<p>EndMS conference 2010 December 6-9, Whistler, BC, CA.</p> <p>5th Annual Symposium CIHR training Program in Neuroinflammation May 21, 2010, Montreal, QC, CA.</p>
<p>Involvement Scholarly Community:</p>	<p>Graduate Studies Committee, Department Micro & Immuno</p> <p>Graduate Program Director, Department Micro & Immuno</p> <p>Academic Adviser, Department Micro & Immuno</p> <p>UACC Training and Qualifications Subcommittee</p> <p>UACC Animal Use Protocol Application Review Subcommittee</p> <p>Awards Committee: CIHR Training Program in Neuroinflammation</p>

<p>continued</p>	<p>Advisory Committees: Stefania Echeverry (Dr. J. Zang) McGill University</p> <p>Candidacy exams: Mathieu Gigoux (Dr. KW Suh) McGill University Mélissa Mathieu (Dr. N. Labrecque) U. of Montreal Felix Hugentobler (Dr. B. Cousineau) McGill University</p> <p>M.Sc Thesis evaluation: Evan Roter (Dr. J. Rauch) McGill University Hau Yee Hung (Dr. S. Fournier) McGill University Marie Monique N’Diaye (Dr. S. Fournier) McGill University Kevin Matthew Wolak (Dr. S. Fournier) McGill University</p> <p>PH. D. Thesis defense/evaluation: Frederic Veyrier (Dr. M. Behr) McGill University Karen Yam (Dr. B. Cousineau) McGill University Vu Quang Van (Dr. M. Sarfati) U. of Montreal José Antonio Estrada Guadarrama (Dr. S. Fournier) McGill University</p> <p>Chair as Pro-Dean at Doctoral examination: Madeline Motta, Faculty of Law Larissa D.D. Vilela, Faculty of Dentistry</p>
<p>Involvement outside Scholarly Community:</p>	<p>FRSQ Member Committee: Chercheurs boursiers et cliniciens "volet fondamental" Senior Ad Hoc Reviewer, <i>International Immunology</i> Ad Hoc Reviewer, NSERC Judge 17e Journée de la Recherche de l’hôpital Maisonneuve-Rosemont</p>
<p>Name:</p>	<p>Professor/Dr. Jörg Fritz</p>
<p>Inter-University and/or International Collaboration (teaching/research):</p>	<p>Dr. Olivier Martin (McGill) “Nod-like receptor-mediated regulation of the development of inflammatory-mediated lung pathologies.” Dr. Mary Stevenson (McGill) “The rôle of Nod1 and Nod2 in <i>Heligmosomoides polygyrus</i> infection. ” Dr. Maziar Divangahi (McGill)</p>
<p>Inter-University and/or International Collaboration (teaching/research):</p>	<p>“The role of PGES in T helper cell polarization upon Nod1- and Nod2-mediated innate immune recognition.” Dr. Andrew N. McKenzie (MRC, Cambridge, UK) “Defining the role of Nod1 and Nod2-mediated innate immune recognition of microbes fro the elicitation of IL-13 producing nuocytes.” Dr. Christopher L. Karp (University of Cincinnati, OH, US) “Investigating the cellular localization, magnitude and kinetics of IL-10 production after activation of Nod1 and Nod2.”</p>

continued	Dr. Thomas A. Kufer (University of Cologne, Germany) “Studying the role of Nod1 and Nod2 in interferon type I and III production upon innate immune recognition of microbes.”
Conferences/Symposia	<p>Oral Presentations <u>Joint McMaster and University of Toronto Research Day, McMaster University, Hamilton, Canada</u> “Acquisition of a multifunctional TNF/iNOS-producing IgA⁺ plasma cell phenotype in the gut”. 18. June 2010 <u>Department of Microbiology and Immunology, McGill University, Montreal, QC, Canada</u> (invited by Dr. Malcolm Baines). “Nod1- & Nod2-mediated innate immune recognition by stromal cells govern acquired immune responses”. 22. October 2009 <u>Center of Molecular Medicine, Vienna, Austria</u> (invited by Dr. Giulio Superti-Furga). “Nod1- & Nod2-mediated innate immune recognition by stromal cells govern acquired immune responses”. 15. October 2009 <u>14th International Congress of Mucosal Immunology (ICMI 2009), Boston, USA</u> “Innate immune recognition by Nod1”. 06. July 2009 <u>3rd Annual Retreat of the Department of Immunology, University of Toronto, Canada</u> “Innate immune recognition by Nod1”. 23. June 2009 <u>Complex Traits Program, McGill University, Montreal, QC, Canada</u> (invited by Dr. Philippe Gros). “Nod1- & Nod2-mediated innate immune recognition by stromal cells govern acquired immune responses”. 10. June 2009 Poster Presentations <u>The 2010 Montreal Symposium on Genetics and Infectious Diseases. McGill University, Montreal, Canada.</u> Non-overlapping roles of TNF-alpha and Lymphotoxin for Nlrc1/Nod1-mediated immune cell orchestration. 17 May 2010 <u>23rd Annual Spring Meeting of the Canadian Society for Immunology, Niagara, Canada.</u> Non-overlapping roles of TNF-alpha and Lymphotoxin for Nlrc1/Nod1-mediated immune cell orchestration. 23-26 April 10</p>
Invited Speaker/Sabbatical, etc:	Memorial University, St. John’s, NF, Canada. Immunology and Infectious Disease Graduate Student Research Forum, Guest Speaker. “Regulation of Host Resistance through Innate Immune Recognition of Microbes”. (invited by Dr. Mani Larijani) 19 November 2010.
Invited Speaker/Sabbatical, etc:	<u>Meakins-Christie Laboratories, McGill University, Montreal, QC, Canada. Symposium on B Lymphocyte Tolerance in Allergic Diseases.</u>

continued	<p>“A novel role for B cells in regulating innate resistance”. (invited by Dr. Bruce Mazer) 19. October 2010 <u>1st Bruce Kaufman/McGill Symposium on Immunoregulation and Inflammatory Bowel Disease, McGill University, Montreal, Canada</u> “The IgA-positive plasma cell: linking innate and adaptive immunity in the intestine”. 24. September 2010</p>
Involvement Scholarly Community:	<p><u>Peer Review Activities</u></p> <p><i>2008 - present</i> <i>Academic Editor for PLOS One</i> (handling of 45 manuscripts) 2006 – present <i>Ad Hoc Peer-Review Activities for</i> <i>PLOS Pathogens</i> (1) <i>European Journal of Immunology</i> (1) <i>PLOS One</i> (6) <i>Experimental Dermatology</i> (1) <i>Immunological Investigations</i> (1) <i>Immunology Letters</i> (2) <i>Immunology and Cell Biology</i> (1) <i>Vaccine</i> (1)</p>
Name:	Professor/Dr. Matthias Götte
Honors, Awards, Official Positions (held in Professional or Learned Societies)	Career award (Chercheur-boursier Senior) - Fonds de la recherche en santé (FRSQ)
Inter-University and/or International Collaboration (teaching/research):	<p>1. Universities and Research Institutes Pennsylvania State University, PA, USA Emory University, GA, USA University of Vermont, VT, USA Rega Institute, Leuven, Belgium Cardiff University, Cardiff, United Kingdom NIH, Bethesda, MD, USA NCI, Frederick, MD, USA</p>
Inter-University and/or International Collaboration (teaching/research):	<p>2. Companies Tibotec, Mechelen, Belgium Gilead Sciences, CA, USA Merck, PA, USA GSK, NC, USA</p>
Conferences/Symposia	<p>Member of the Scientific Committee: 1. International HIV Drug Resistance Workshop 2. HIV DART</p>

continued	<p>Organizing Committee:</p> <ol style="list-style-type: none"> 1. International conference on “Viral Genome Replication”, Banff, Co-Chair 2. International meeting on RNase H (“RNase H 2010”), Montreal, Co-Chair
<p>Invited Speaker/Sabbatical, etc:</p>	<p>2010</p> <ol style="list-style-type: none"> 1. 2010 Immunology Montreal: Fall Annual Symposium; Immunity to HCV: Recent Advances, Montreal, Quebec, Canada, November 19, 2010 2. Invited Presentation: UMass Medical School; Special CFAR/Biochemistry seminar November 18, 2010 3. Invited Presentation: CQDM Annual Meeting, June 8th, 2008 4. 5th International Workshop on Hepatitis C resistance & new Compounds, Boston, MA, USA, June 24-25, 2010 5. Invited Presentation: Boehringer Ingelheim, Laval, PQ, Canada, May 7, 2010 6. Invited Presentation: 78 Congrès de l’ACFAS; HÉPATITE C: 20 ans déjà, Montreal, PQ, Canada, May 10, 2010 7. Invited Presentation: 6th Annual McGill Biophysical Chemistry Symposium, Montreal, PQ, Canada, May 13, 2010 <p>2009</p> <ol style="list-style-type: none"> 1. 10th DRP Symposium on Antiviral Drug Resistance, Richmond, USA, November 15-18 2. Invited Presentation: Merck Frost, Montreal, PQ, Canada, June 18, 2009 3. XVIII International HIV Drug Resistance Workshop, Fort Myers, USA June 9-12, 2008 4. Invited Presentation: GSK, Chapel Hill, NC, USA, May 4, 2009 5. Invited Presentation: University of Minnesota, Minneapolis, MN, USA, April 29, 2009 6. Invited Presentation: Emory University, GA, USA, March 26, 2009 7. Invited Presentation: Emory University, GA, USA, January 27, 2009
<p>Involvement Scholarly Community:</p>	<p>Journals - ad hoc reviews</p> <p>Biochemistry, Journal of Molecular Biology, Journal of Virology, Nucleic Acids Research, Virology, Antimicrobial Agents and Chemotherapy, PLoS Medicine, PLoS Pathogens, Journal of Medicinal Chemistry, Structure, Journal of Infectious Diseases</p>
<p>Involvement outside Scholarly Community:</p>	<p>Editorial Board Member:</p> <ol style="list-style-type: none"> 1. Antimicrobial Agents and Chemotherapy 2. The Journal of Biological Chemistry <p>Grant Panels:</p> <ol style="list-style-type: none"> 1. NIH site visit 2. CIHR – Fellowship, Member
<p>Involvement outside Scholarly Community:</p>	<ol style="list-style-type: none"> 3. The Ontario HIV Treatment Network, Member 4. NIH (AIDS Related SBIR & STTRs), Member

Name:	Professor/Dr. Gruenheid
Honors, Awards, Official Positions (held in Professional or Learned Societies)	Canada Research Chair in Bacterial Pathogenesis: 2005-2010 Canada Research Chair in Bacterial Pathogenesis (renewal): 2010-2015 member, Canadian Society for Gastroenterology Canadian Society for Microbiology, Vice-chair of infection and immunity, 2010.
Inter-University and/or International Collaboration (teaching/research):	1. <i>Nathalie Strynadka</i> , University of British Columbia, X-ray crystallographic studies of NleA structure 2. <i>Jinoh Kim</i> , University of California at Davis, NleA inhibition of COPII function.
Conferences/Symposia	1. McGill Symposium on Immunoregulation and Inflammatory Bowel Disease, Montreal, Canada, September 24, 2010. 2. Finlay Lab 25 th Anniversary Scientific Meeting: Microbial Infectious Diseases, Galliano Island, Canada, July 28-31, 2009.
Invited Speaker/Sabbatical, etc:	1. Cell Biology and Infection, Pasteur Institute, Paris, France, August 30, 2010 (Dr. P. Cossart). 2. Dafra Pharma International, Turnhout, Belgium, August 27, 2010 (Dr. A. Fortin). 3. Department of Microbiology, Queen's University, February 17, 2010 (Dr. N. Martin)
Involvement Scholarly Community:	McGill Faculty of Medicine, Animal Care Committee, 2009-present. McGill Faculty of Medicine, Panel member, Basic Sciences Faculty Members, External Review of Dean Levin, 2010. McGill University, Department of Microbiology and Immunology, Chair of the departmental seminar committee, 2010/2011. McGill University, Department of Microbiology and Immunology, graduate committee, 2006-present. McGill University, Department of Microbiology and Immunology, undergraduate committee, 2006-present. McGill University, Department of Microbiology and Immunology, Search committee for the teaching laboratory technical staff. 2010. McGill University, Department of Microbiology and Immunology, Chair of the confocal users committee. 2009.
Involvement Scholarly Community:	McGill University, Department of Microbiology and Immunology, fellowships committee, 2005-present. <i>Canadian Institutes of Health Research</i> Committee member, Emerging Team Grant, Human Microbiome, June 2010. <i>Canadian Institutes of Health Research</i> Committee member, Catalyst Grant, Human Microbiome, January 2009. <i>Israel Science Foundation</i> , Reviewer, Operating Grant Program, May 2010. <i>NSERC</i> Reviewer, Discovery Grant Program, February 2010. <i>FRSQ</i> Reviewer, Research on Genomics and Diseases FRSQ-GQ-NSFC Collaborative Operating Grant Program, November 2010.

continued	<p>Canadian Society for Microbiology, organizing committee, annual conference, 2009.</p> <p><i>Poster judge</i> First Montreal Symposium on Genetics and Infectious Diseases</p> <p><i>Thesis defense committees</i> Member on 6 Ph.D. thesis defense committees in 2009/2010.</p> <p><i>Research Advisory Committees</i> Member of 8 graduate student research advisory committees currently.</p> <p><i>Frontiers in Cellular and Infection Biology</i>, Review Editor (2010-present)</p> <p><u>Ad hoc reviews</u></p> <p>Microbes and Infections (Dec. 2010)</p> <p>Frontiers in Microbiology (Nov. 2010)</p> <p>Cellular Microbiology (Sept. 2010)</p> <p>PloS Pathogens (August 2010)</p> <p>PloS Pathogens (June 2010)</p> <p>PLoS ONE (May 2010)</p> <p>Cell Host and Microbe (November 2009)</p> <p>PLOS pathogens (Oct. 2009)</p> <p>Gastroenterology (Sept. 2009)</p> <p>Journal of Biological Chemistry (March 2009)</p> <p>Cell Host and Microbe (January 2009)</p>
Involvement outside Scholarly Community:	Mentored 4 high school students of science fair projects in 2010 Hosted and mentored 1 high school science student for the “Buddy Science” program 2010.
Salary Awards	Canada Research Chair in Bacterial Pathogenesis (renewal): 2010-2015
Name:	Professor/Dr. Hervé Le Moual
<p>Inter-University and/or International Collaboration (teaching/research):</p> <p>Inter-University and/or International Collaboration (teaching/research):</p>	<p>Teaching: 2 hours of lecture in the graduate course "Microbiologie Fondamentale" (MCB6012) at UDM.</p> <p>Research: Ongoing collaboration with Dr. France Daigle, Département de Microbiologie et Immunologie, Université de Montreal. This collaboration led to the submission of a FQRNT team grant.</p> <p>Member of the local organization committee for the 59th Annual Conference of the Canadian Society of Microbiologists, Montreal, QC, Canada</p> <p>Chair of the symposium on oral pathogens at the 59th Annual Conference of the Canadian Society of Microbiologists, Montreal, QC, Canada. June 18, 2009.</p> <p>Poster presentations: Viau, C., Ting, D., Le Sage, V., and Le Moual H. (2010). The role of <i>Citrobacter rodentium</i> lipopolysaccharide modifications in outer membrane permeability to hydrophobic compounds. CSM 58th Annual Conference, Hamilton, ON, Canada.</p>

continued	<p>Portt, A., Sabbagh, S., Lepage, C., Daigle F. and Le Moual H. (2010). Substrate specificities of the <i>Citrobacter rodentium</i> and <i>Salmonella enterica</i> outer membrane proteases of the ompT family. CSM 58th Annual Conference, Hamilton, ON, Canada.</p> <p>Portt, A., Le Sage V., and Le Moual, H. (2009). Degradation of Host Antimicrobial Peptides by Outer-membrane Proteases of Enteric Pathogens. CSM, 59th Annual Conference, Montreal, QC, Canada.</p>
Invited Speaker/Sabbatical, etc:	<p>Invited Speaker:</p> <p>Faculté de Médecine Dentaire, Université Laval. Dégradation des Peptides Antimicrobiens de l'Hôte par les Protéases Bactériennes de la Membrane Externe, 14 Mai 2010.</p> <p>Institut de Microbiologie de la Méditerranée, Marseille, France. Dégradation des Peptides Antimicrobiens de l'Hôte par les Protéases Bactériennes de la Membrane Externe, March 17, 2010.</p> <p>Department of Microbiology and Immunology, Queen's University. Bacterial Outer Membrane Proteases and Resistance to Antimicrobial Peptides, January 20, 2010.</p> <p>Summer Conferences, Department of Microbiology and Immunology, McGill University. Bacterial Outer Membrane Proteases and Resistance to Antimicrobial Peptides, September 24, 2009.</p> <p>Department of Biochemistry and Biological Sciences, McMaster University. Bacterial Outer Membrane Proteases and Resistance to Antimicrobial Peptides, September 22, 2009.</p>
Involvement Scholarly Community:	<p>Peer review process:</p> <p>Arizona Biomedical Research Commission, June 2010.</p> <p>Killam Research Fellowships and the Canada Council of the Arts, September 2010.</p> <p>Réseau de recherche en santé buccodentaire et osseuse, comite de pairs pour le concours "Bourses post-doctorales, Juin 2009.</p> <p>Fonds de la Recherche en Santé du Québec (FRSQ), Membre du Comité d'évaluation des bourses de Maîtrise, 2006-2009.</p> <p>Natural Sciences and Engineering Research Council of Canada (NSERC), reviewer for Discovery projects, 2006-2010.</p> <p><u>External Examiner for Ph.D. Theses:</u></p>
Involvement Scholarly Community:	<p>Ms. Nadège Décanis, Département de Médecine Expérimentale, Université Laval. <i>Implication du farnesol et des cellules épithéliales gingivales dans le contrôle de la candidose buccale.</i> Superviseur: Dr. M. Rouabhia, Décembre 2009.</p> <p><u>External Examiner for M.Sc. Theses:</u></p> <p>Mr. Kristian Levey, Department of Microbiology and Immunology, McGill University. <i>Protein-protein interactions of ExbD in the complex TonB-ExbB-ExbD.</i> Supervisor: Dr. J.W. Coulton, October 2009.</p> <p>Ms. Ashley Fallow, Department of Microbiology and Immunology, McGill University. <i>Beijing lineage strains of Mycobacterium tuberculosis are natural mutants of the DosT sensor kinase.</i> Supervisor: Dr. M. Reed, October 2009.</p>

continued	<p><u>External Examiner for Ph.D. Comprehensive Exam:</u> Mme. Mona Talaat, Département de Microbiologie et Immunologie, Université de Montréal. <i>Improvements in fermentative hydrogen yields through metabolic engineering and physiological manipulation</i>. Superviseur: Dr. Patrick Hallenbeck, Octobre 2010.</p> <p>Mr. François Béliveau, Département de Pharmacologie, Université de Sherbrooke. <i>Rôle des domaines de la matriptase-2 sur sa fonction de régulation du fer</i>. Superviseur: Dr. Richard Leduc, Février 2010</p> <p>Mme. Chantal Forest, Département de Microbiologie et Immunologie, Université de Montréal. <i>Etude fonctionnelle de l'opéron fimbriaire stg de Salmonella enterica sérovar Typhi</i>. Superviseur: Dr. France Daigle, Octobre 2009.</p> <p>Ms. Laura Carranza, Department of Food Science and Agricultural Chemistry, McGill University. <i>Standardization of a focal plane array Fourier transform infrared based bacteria identification method</i>. Supervisor: Dr. Ashraf Ismail, December 2009.</p> <p><u>Pro-Dean for a Doctoral Oral Examination:</u> Ms. Melita Hadzagic, Department of Electrical & Computer Engineering, McGill University. <i>Bayesian approaches to trajectory estimation in maritime surveillance</i>. Supervisor: Dr. Hannah Michalska, August 2010.</p>
Involvement OUTSIDE Scholarly Community:	<p>Ms. Milasan A., Ms. Rizza Gran E., Lab project for students from CEGEP John Abbott College, March 2010.</p> <p>Juge pour la compétition de présentations par affiche de l'AECSBUM, Hall d'Honneur, Université de Montréal, Vendredi le 12 Mars 2010.</p>
Name:	Professor/Dr. John Hiscott
Honors, Awards, Official Positions (held in Professional or Learned Societies)	<p>Principal Investigator/Full Member Vaccine and Gene Therapy Institute-Florida 2009-2010 Research Associate Director, Lady Davis Institute 1996 - present Professor Departments of Microbiology & Immunology, Medicine and Oncology, McGill University</p> <p>1992 - present Director, Molecular Oncology Group 1984 - present Staff Investigator, Lady Davis Institute for Medical Research</p>
Conferences/Symposia	<p>Ubiquitin-mediated Regulation of the RIG-I-MAVS Antiviral Pathway 16th Conference on Hepatitis C Virus, Nice France (October 2009)</p>
Conferences/Symposia	<p>The innate immune response to RNA virus infection & Manipulating the immune response to augment oncolytic virotherapy Institute of Biophysics Chinese Academy of Sciences, Beijing</p>

continued	<p>Institute of Medicinal Biotechnology, Beijing</p> <p>Shanghai Institute of Biochemistry and Cell Biology, Shanghai</p> <p>College of Life Sciences, Wuhan University</p> <p>Wuhan Institute of Virology, Wuhan (May 2010)</p> <p>The innate immune response to RNA virus infection</p> <p>Université Paris-Descartes, Paris France (June 2010)</p> <p>Molecular interactions regulating the RIG-I dependent antiviral immune response</p> <p>EMBO Workshop - Emerging Themes in Infection Biology</p> <p>La Colle sur Loup, France (June 2010) – Plenary Speaker.</p> <p>RIG-like Receptors: Sensing and responding to Virus Infection American Society for Virology, Bozemann Montana (July 2010) – Invited Speaker</p> <p>RIG-like Receptors: Sensing and responding to Virus Infection Conference on Innate Immunity, Amsterdam, The Netherlands (Sept. 2010)</p>
Name:	Professor/Dr. Greg Marczynsky
Inter-University and/or International Collaboration (teaching/research):	Collaborative research on Mycobacterium tuberculosis with Professor Murty V. Madiraju, Department of Biomedical Research, The University of Texas Health Science Center Tyler, TEXAS, USA.
Name:	Professor/Dr. Greg Matlashewski
On Sabbatical leave	<p>1/09/09 - Present: Leader, Research for elimination of visceral leishmaniasis, World Health Organization. Geneva, Switzerland</p> <p>Responsibilities include the coordination of implementation research projects to deliver the best available interventions to the community level for the treatment of visceral leishmaniasis and the control of the sandfly vector. This involves coordinating activities of personnel in WHO-TDR, Geneva and research investigators in India, Nepal and Bangladesh.</p>
Name:	Professor/Dr. Ciro Piccirillo
Honors, Awards, Official Positions (held in Professional or Learned Societies)	<p>CRC Tier II</p> <p>Colonel Edward T. Renouf Research Fellowship</p> <p>MGH Foundation award for research excellence</p>
Inter-University and/or International Collaboration (teaching/research):	<p>UBC</p> <p>Indiana University</p> <p>IRCM</p>

continued	Seattle Children's Hospital NIH University of Milano-Bicocca
Conferences/Symposia	Major Symposium speaker Functional Dynamics of CD4+Foxp3+ regulatory T cells in autoimmune diabetes. FASEB Summer research conference on Autoimmunity. Vermont, USA. (June 2009) Major Symposium speaker Impact of mutations in the human FOXP3 gene on regulatory T cell function. Canadian Cancer Immunotherapy Consortium. Niagara Falls, Canada. (April 2010) Major Symposium speaker Translational regulation of gene expression in CD4+Foxp3+ regulatory T cells. International Congress on Regulatory T cells and Th17 cells. Shanghai, China. (July 2010) Invited speaker Translational regulation of gene expression in CD4+Foxp3+ regulatory T cells. Johns Hopkins School of Medicine Baltimore, USA (September 2010)
Conferences/Symposia	B cell Symposium (McGill University) Immunology-Montreal Symposium (Montreal) CSACI Annual Meeting (Victoria BC)
Involvement Scholarly Community:	Director- FOCIS Center of Excellence in Translational & Clinical Immunology Co-Director- Infection and Immunity Axis McGill University Health Center Research Institute Director- Immune Phenotyping Platform for Research Institute of MUHC
Involvement Scholarly Community:	Chair of Immunology, Genetics and Cell Biology grant review panel of CDA Immune Tolerance R21 RFA Special Emphasis Panel, NIAID, NIH JDRF Grant reviewer for the Innate Immunity RFA panel Member of the National Research Council of the CDA Immune Tolerance U19 RFA Special Emphasis Panel, NIAID, NIH Board of Governors for Immunology-Montreal Montreal Diabetes Research Center (MDRC) 6. ACTIVE JOURNAL REVIEWING ACTIVITIES: The Journal of Immunology; Journal of Experimental Medicine; Immunity; Blood; Nature Medicine; Nature Immunology; Journal of Leukocyte Biology; Invited Editor for Autoimmunity issue of Current Opinion in Immunology, Science, Cell. 12. Member of the CDA National Research Council (2007-present) 13. Board of Governors for Immunology-Montreal (2008-present) 14. Immune Tolerance U19 RFA Special Emphasis Panel, NIAID, NIH (2009) 15. Montreal Diabetes Research Center (MDRC) (2008-present) 16. JDRF Center review panel (2010)

continued	17. PO1 RFA Special Emphasis Panel, NIAID, NIH (2010)
Salary Awards	CRC Tier II Colonel Edward T. Renouf Research Fellowship MGH Foundation award for research excellence
Name:	Professor/Dr. Donald Sheppard
Honors, Awards, Official Positions (held in Professional or Learned Societies)	CIHR Clinician-Scientist (July 1 2008-2011) Association of Medical Microbiology and Infectious Diseases of Canada (Member Awards Committee) American Society of Microbiology Quebec Association of Microbiology and Infectious Diseases Fellow of the Royal College of Physicians and Surgeons of Canada
Inter-University and/or International Collaboration (teaching/research):	Course Co-ordinator, Aspergillus Section Wood's Hole Course in Molecular Mycology, Marine Biology Laboratories Guest Lecturer, University of Montreal; MCB 6210 - Microorganismes-pathogénicité, immunité, 3 hours/year Scientific collaborations (funded) – University of Manchester, UK; University of California Los Angeles; University of Texas at San Antonio, J. Craig Venter Institute, Institut Pasteur
Conferences/Symposia/ Invited Speaker/Sabbatical, etc.	<u>McGill Clinical Conferences</u> Grand Rounds McGill University Health Centre Department of Medicine <i>Update on Mycology at the MUHC</i> 19-Oct-10 MUHC Respiratory Division Noon Rounds <i>Update on Diagnosis and Management of Invasive Aspergillosis</i> 4-Nov-09 <u>Invited Research Lectures, Talks, Presentations</u> Galactosaminogalactan mediates <i>Aspergillus fumigatus</i> adherence to host tissues and virulence 30-Dec-10 Invited Seminar, Department of Microbiology, University of Glasgow Carbohydrate basis for biofilm adherence by <i>A. fumigatus</i> 24-Nov-10 Invited Seminar, Department of Microbiology, Manchester University, Manchester, England. <i>Bedside to bench – translational studies in invasive aspergillosis</i> 22-Nov-10 Invited Seminar, Department of Microbiology, Imperial College, London, England. <i>Adherence and Biofilms of Aspergillus fumigatus: A sticky situation.</i>

continued	17-Nov-10 NIH Combined Invasive Models of Aspergillosis and Aspergillosis Technology Consortium Meeting. Bethesda, Maryland.
Conferences/Symposia/ Invited Speaker/Sabbatical, etc.	<p><i>Gene profiling in experimental aspergillosis.</i> 15-Nov-10 Molecular Mycology of Pathogenic Fungi Summer Course, Marine Biology Laboratories, Woods Hole, Massachusetts. (Invited Faculty) <i>Galactosaminogalactan and fungal adherence.</i></p> <p>Aug 8-18, 2010 NIH Combined Invasive Models of Aspergillosis and Aspergillosis Technology Consortium Meeting. Bethesda, Maryland. <i>Animal Models of Allergic Bronchopulmonary Aspergillosis.</i></p> <p>17-Nov-09 <u>National Conferences, Presentations and Seminars</u> Infectious Diseases Grand Rounds, St Justine Hospital Update on Fungal Diseases Dec 3 2010 Hematology Grand Rounds, Maisonneuve Rosemont Hospital A rational basis for antifungal use – screening and prophylaxis Oct 13 2010 Grand Rounds University of Manitoba, Department of Medicine <i>There is a fungus among us!</i> October 30 2010 Hematology Grand Rounds, University of Calgary <i>Intracellular antifungals protect against Aspergillus infection</i> September 30 2010 Hematology Grand Rounds, University of Alberta, Edmonton <i>Intracellular antifungals protect against Aspergillus infection</i> June 16 2010 CIHR Symposium Genetics of Infectious Diseases, McGill University <i>Reverse Genetics in Aspergillus fumigatus</i> May 17 2010 Canadian Bone Marrow Transplantation Group Meeting, 2010 <i>Directed, empiric and pre-emptive antifungal therapy in HSCT</i> April 8 2010 Meakins Christie Seminar Series</p>
Conferences/Symposia/	<i>Molecular mechanisms of Aspergillus induced chronic lung disease.</i> March 22 2010

Invited Speaker/Sabbatical, etc.	Department of Physiology Seminar Series, McGill University
Conferences/Symposia/ Invited Speaker/Sabbatical, etc.	<p><i>Aspergillosis, Adherence and Arsenic</i> January 29 2010 Merck Research Laboratories, Montreal</p> <p><i>Developmental Regulation of Virulence</i> January 28 2010 Hematology Grand Rounds, Princess Margaret Hospital, Toronto.</p> <p><i>Incidence of Invasive Aspergillosis.</i> 25-Sep-09 International Chemotherapy Congress, Toronto.</p> <p><i>Do we have Invasive Aspergillosis in Canada?</i> 18-Jun-09 Association of Medical Microbiology and Infectious Diseases Canada Annual Meeting. Toronto</p> <p><i>The Evidence for Combination Antifungal therapy – a Debate.</i> 17-Jun-09</p>
Consulting	Member of Advisory Board for: Merck, Pfizer, Schering-Plough and Astellas.
Scholarly Community:	<p>Panel Member, Microbiology and Infectious Disease Panel CIHR External Reviewer – USA NSF, (2009, 2010); UK Wellcome Trust (2009, 2010)</p> <p>Program Director, Royal College Training Program in Infectious Diseases and Microbiology Osler Fellow, McGill University</p>
Name:	Professor/Dr. Silvia Vidal
Honors, Awards, Official Positions (held in Professional or Learned Societies)	<p>Associate Professor (primary appointment), Department of Human Genetics Faculty of Medicine, McGill University (2003-present)</p> <p>Associate Professor (cross-appointment), Department of Microbiology and Immunology Faculty of Medicine, McGill University (2003-present)</p> <p>Associate Professor (cross-appointment), Department of Medicine Faculty of Medicine, McGill University (2003-present)</p> <p>Member, Center for the Study of Host Resistance McGill University (2003-present)</p> <p>Member, Complex Traits Group Faculty of Medicine, McGill University (2007-present)</p>
Inter-University and/or International Collaboration (teaching/research):	International collaborations:
Inter-University and/or International Collaboration (teaching/research):	<p>1. <i>Lewis L Lanier</i>, University of California in San Francisco (CA), Molecular mechanisms of NK cell recognition of infected cells.</p> <p>2. <i>Christine Biron</i>, Brown University (RI), Regulatory functions of NK cell activating receptors.</p>

<p>continued</p>	<p>3. <i>Stipan Jonjic</i>, University of Rijeka (Croatia), Identification of cytomegalovirus evasion gene products from NK cell responses.</p> <p>4. <i>Luis Sigal</i>, Fox Chase Cancer Center (PA), Genetic susceptibility to poxviruses.</p> <p>5. <i>Theo Gorgels</i>, Netherlands Institute of Neuroscience (The Netherlands), Role of the ABCC6 transporter the host response to cardiotropic enteroviruses.</p> <p>6. <i>Douglas A Marchuk</i>, Duke University Medical Center (NC), Role of TNNI3K in susceptibility to viral myocarditis</p> <p>7. <i>Isashi Arase</i>, Immunology Frontier Research Center, Osaka University (Japan). Importance of paired immunoglobulin-like type 2 receptor expressing cells during viral myocarditis.</p> <p>8. <i>Earl Brown</i>, University of Ottawa, Host response to mouse-adapted influenza viruses.</p> <p>Inter-university collaborations</p> <p>9. <i>Jerry Pelletier</i>, McGill University. Role of translation initiation inhibitors in the host response against influenza infection.</p> <p>10. <i>Rob Sladek</i>, MUHC-RI. Mapping eQTLs controlling the host response to influenza virus infection.</p> <p>11. <i>Philippe Gros</i>, McGill University. ENU mutagenesis screening for mutations that convey protection against cerebral malaria.</p> <p>12. <i>Danielle Malo</i>, McGill University. ENU mutagenesis screening for mutations that convey susceptibility to <i>Salmonella</i> infection.</p> <p>13. <i>Salman Qureshi</i>, Characterization of a new ENU Unc93b mutant for host susceptibility to virus infections.</p> <p>14. <i>Maxime Bouchard</i>, McGill University. Generation of ENU mutant mouse stocks to study kidney development.</p> <p>15. <i>Rima Rozen</i>, McGill University. Impact of <i>Mthfr</i> deficiency in host susceptibility to infection.</p> <p>16. <i>Nahum Sonenberg</i>, McGill University. Impact of a double <i>4Ebp1/4Ebp2</i> knock-out in host susceptibility to virus infections.</p> <p>17. <i>Jamie Engert</i>, MUCH-RI. Genetic control of plasma lipid levels.</p> <p>18. <i>Jacques Genest</i>, MUHC-RI. Genetic control of plasma lipid levels</p>
<p>Conferences/Symposia</p>	<p>Pothlichet, J., Boivin, G., Brown, E., and Vidal S. Host genetic control of the deleterious inflammatory response to Influenza A virus. Cell Symposia. Influenza: Translating Basic insights. 2-4 December 2010, Washington Marriot Hotel, Washington D.C. USA.</p> <p>Marton, J., and Vidal, S. Impact of the chromosome 7 locus <i>Abcc6/dyscalc</i> in host susceptibility to coxsackieviral myocarditis. 24th International Mammalian Genome Conference. 17-21 October 2010, Heraklion, Crete. CTP-87520</p>
<p>Conferences/Symposia</p>	<p>Berghout, J., Bongfen, S.E., Sabrina Torre, S., Vidal, S., and Gros, P. Keeping up with the Joneses: a tail of two phenotypes. 24th International Mammalian Genome Conference. 17-21 October 2010, Heraklion, Crete. CTP-87520</p>

<p>continued</p>	<p>Wiltshire, S., and Vidal, S. Genetic and functional dissection of the viral myocarditis susceptibility locus 1 (Vms1) in sub-congenic strains identify novel candidate genes of the antiviral response. 24th International Mammalian Genome Conference. 17-21 October 2010, Heraklion, Crete. (Scholarship to S. Wiltshire from MGC and Invited for oral presentation) MOP-86592</p> <p>Boivin, G., Pothlichet, J., Skamene, E., Brown, E., Sladek, R., Vidal, S. Combining clinical and expression qtls in the context of infection: new insights into susceptibility to influenza virus. 24th International Mammalian Genome Conference. 17-21 October 2010, Heraklion, Crete. MOP-89821.</p> <p>Pyzik*, M., Charbonneau*, B., Babic, M., Jonjic, S. and Vidal, S. Multiple activating LY49 family members provide NK cell-dependent recognition of the infected cell and host resistance to cytomegalovirus infection. 12th Meeting of the Society for Natural Immunity. 20-24 April 2010, Dubrovnik, Croatia. (Scholarship to M. Pyzik from SNI and invited for oral presentation). MOP-7781</p> <p>Fodil-Cornu*, N. and Vidal, S. Rescue of host susceptibility to viral infection in double congenic mice is mediated by the interaction between the Natural Killer cell gene complex and the H2-Dk molecule. 12th Meeting of the Society for Natural Immunity. 20-24 April 2010, Dubrovnik, Croatia. (N. Fodil-Cornu invited for oral presentation) MOP-7781</p> <p>Boivin, G., Skamene, E., Brown, E., and Vidal, S. Complex Genetic Control of Highly Pathogenic Influenza Virus Infection. 2010 Montreal Symposium on Genetics and Infectious Diseases. May 17-18 2010. Montreal, Canada. MOP-89821.</p> <p>Yuki, K., Eva, M., Richer, E., Prud'homme, N., Vidal, S., and Malo, D. Identification of novel susceptibility loci/genes to Salmonella Typhimurium infection using N_ethyl_Nnitrosourea (ENU) chemical mutagenesis in mice. 2010 Montreal Symposium on Genetics and Infectious Diseases. May 17-18 2010. Montreal, Canada. CTP-87520</p> <p>Fodil-Cornu, N. and Vidal, S. Contribution of Ly49 and H2 loci to innate resistance against Cytomegalovirus. 2010 Montreal Symposium on Genetics and Infectious Diseases. May 17 2010. Montreal, Canada. MOP-7781</p> <p>Marton, J., Albert, D., and Vidal, S. ENU Mutagenesis Reveals a Genetic Locus on Chromosome 7 That Mediates CVB3_Induced Pathology in Mice. 2010 Montreal Symposium on Genetics and Infectious Diseases. May 17-18 2010. Montreal, Canada. CTP-87520</p>
<p>Conferences/Symposia</p>	<p>Bongfen, S.E., Berghout, J., Torre, S., Stevenson, M., Vidal, S., and Gros, P. An ENU_induced cerebral malaria resistance locus maps to mouse chromosome 8. 2010 Montreal Symposium on Genetics and Infectious Diseases. May 17-18 2010. Montreal, Canada. CTP-87520</p> <p>The use of an ENU mutagenesis screen to identify early inflammatory response genes implicated in cerebral malaria. Torre, S., Bongfen, E., Berghout, S., Vidal, S., and Gros, P. 2010 Montreal Symposium on Genetics and Infectious Diseases. May 17-18 2010. Montreal, Canada. CTP-87520</p>

<p>Conferences/Symposia</p>	<p>Wiltshire, S., and Vidal, S. Mouse genetic model of cardiovirulent coxsackievirus B3 infection. 2010 Montreal Symposium on Genetics and Infectious Diseases. May 17-18 2010. Montreal, Canada. MOP-86592</p> <p>Pyzik, M., Charbonneau, B., Gendron-Pontbrian, E., Babic, M., Krmpotic, A., Jonjic, S., and Vidal, S. Virus-specific NK cell receptors mediate H2-dependent recognition of MCMV infected cells and host resistance against virus infection. 2010 Montreal Symposium on Genetics and Infectious Diseases. May 17-18 2010. Montreal, Canada. MOP-7781</p> <p>Lafferty, EI, Angers, I, Vidal, S and ST Qureshi. A New Model to Study Immunity to Respiratory Pathogens Generated Using Chemical Mutagenesis. Annual McGill Biomedical Graduate Conference. McGill Division of Experimental Medicine. February 18, 2010. Montreal.</p> <p>Marton, J., Wiltshire, S., and Vidal, S. Genetic Dissection of Coxsackievirus B3 Mediated Mechanisms of Liver Pathology. 23rd International Mammalian Genome Conference, La Jolla, CA, Nov 2009. Dept. Human Genetics scholarship. MOP-86592</p> <p>Wiltshire, S., Leiva-Torres, G., Kwan, T., and Vidal, S. QTL analysis, system genetics and consomic mapping identifies a type I interferon-dependent pathway under the control of the coxsackieviral myocarditis susceptibility locus, Vms1. 23rd International Mammalian Genome Conference, La Jolla, CA, Nov 2009. MGC scholarship. Selected for oral presentation. MOP-86592</p> <p>Boivin, G., Skamene, E., Brown, E., Vidal, S. Complex Genetic Control of Highly Pathogenic Influenza Virus Infection. 23rd International Mammalian Genome Conference, La Jolla, CA, Nov 2009. Selected for oral presentation. Award for best poster. MOP-89821</p>
<p>Invited Speaker/Sabbatical, etc:</p>	<ol style="list-style-type: none"> 1. “Role of activating NK cell receptors in host resistance to virus infection”. 12th Meeting of the Society for Natural Immunity. 11-15 September 2010, Dubrovnik, Croatia. 2. “MHC class I and NK cell receptor interactions modulate host resistance to infection with mouse cytomegalovirus”. From Genes to Pathogenesis of Multiple Sclerosis. 15-19 August 2010, Lofoten, Norway. 1. “Mouse ENU mutagenesis to identify susceptibility genes to infection: a global approach to global health”. 2010 Montreal Symposium on Genetics and Infectious Diseases. May 17 2010. Montreal, Canada.
<p>Invited Speaker/Sabbatical, etc:</p>	<ol style="list-style-type: none"> 2. “Forward genetics of host susceptibility genes in mouse models of virus infection: common and distinct pathways against +RNA, -RNA and large DNA viruses” Howard Hughes Medical Institute Conference on Viral Subversion and Immune Response. June 17-18, 2009. Rijeka, Croatia. <p>invited speaker (institutions)</p> <ol style="list-style-type: none"> 1. Role of activating NK cell receptors, MHC class I and viral determinants in host resistance to cytomegalovirus”. Seminars of the Infection Immunity and Inflammation Research Theme of the University of Montreal Hospital Research Centre (CRCHUM),

<p>Involvement Scholarly Community:</p>	<p><u>Organization of seminars</u> CIHR Team in Mutagenesis and Infectious Diseases Seminar Series (http://www.mcgill.ca/cihr-enu-team/events/)</p> <p><u>Organization of symposia</u> 2010 Montreal Symposium on Genetics and Infectious Diseases, Montreal, Canada. 17-May-10 (http://www.mcgill.ca/gid-symposium/)</p> <p><u>Organization of workshop</u> <i>Special Year-end Event</i> Workshop and panel: Careers for postgraduates in biomedical science 10-Dec-10</p> <p><u>Organization of group activities</u> Third 2009 CIHR ENU Team Progress Update Meeting 12-Dec-09 http://www.mcgill.ca/files/cihr-enu-team/Dec_15_09.pdf The 2010 CIHR ENU Team Meeting with the Scientific Advisory Board 18-May-10 http://www.mcgill.ca/files/cihr-enu-team/Agenda_SAB.pdf The 2010 CIHR ENU Team Progress Update Meeting October 6th, 2010</p> <p><u>Funding Agencies review committees</u> <u>Panel member</u> French National Research Agency (2010) Microbiology, Immunology and Infection Member of the Evaluation Committee (3 meeting days/year) National Institutes of Health (2010) Special Emphasis Panel: Topics in Virology Member of study section (2 meeting days/year) <i>Ad Hoc</i> reviewer (2009-2010) CIHR Immunology and Transplantation Panel Heart & Stroke Foundation</p>
<p>Involvement Scholarly Community:</p>	<p>Alberta Heritage Foundation for Medical Research The Welcome Trust (UK) Institut Pasteur/ Hemholtz Center Transverse Research Programs, MUHC Internal Grant Review MUHC Fellowship-Scholarships Committee.</p> <p><u>Others</u> <u>External Quality Monitoring</u> The Australian National University's Research Assessment Exercise Member of assessment panel January 13-20, 2010</p>
<p>Salary awards</p>	<p>Canada Research Chair in Host Response to Virus Infections: 2004-2011.</p>

Name:	Professor/Dr. Mark Wainberg
Honors, Awards, Official Positions (held in Professional or Learned Societies)	<p>Medal of Honor, Canadian Medical Association</p> <p>Lifetime Achievement Award, AIDS Society of India</p> <p>Prix du Québec-Wilder-Penfield, Développement économique, innovation et exportation Quebec</p> <p>Prix du Québec scientifiques</p> <p>Professor and Director, McGill AIDS Centre, McGill University</p> <p>Professor, Department of Microbiology and Immunology, McGill University</p> <p>Professor, Department of Medicine, McGill University</p> <p>Head, Laboratory for Research on AIDS, Lady Davis Institute for Medical Research, Sir Mortimer B Davis - Jewish General Hospital</p> <p>Professor, Department of Pediatrics, McGill University</p>
Conferences/Symposia	<p>July 2009. 6th IAS Conference on HIV pathogenesis. Capetown, South Africa. Invited speaker. ”Why are we using Better Drugs to treat HIV-Infected Persons in rich that Poor Countries: Implications for Drug Resistance and Public Health”.</p> <p>October 2009. Paris, France. Seminar, CRIBS. <<Comment établir des protocoles pour arrêter la transmission du VIH>>.</p> <p>October 2009, Moscow, Russia US-Russia Co-Operative HIV conference. Invited speaker. <<Relationships between HIV Subtypes and ddrug resistance: Where Are We Headed?>></p> <p>November 2009. Université de Lausanne, Genetics Institute, Lausanne, Switzerland. Seminar speaker. “HIV genetics and the development of drug resistance”</p> <p>December 2009. Stanford University. Department of Medicine. Palo Alto, California. Invited to deliver the Professor Thomas Merigan Honorary Lecture. “The problem of HIV subtypes and drug resistance: Implications for public health”.</p>
Conferences/Symposia	<p>January 2010. University of Nice, France. <<La survie intracellulaire du VIH et la recombinaison virale: développement des souches multi-résistantes aux ARV>></p> <p>January 2010. University of Botswana, Gaborone, Botswana. “HIV Subtype C and the Development of the K65R resistance mutation.”</p> <p>March 2010. Invited speaker. HIV Community Forum. Sudbury, Ontario. “What you should know about HIV drug resistance”.</p> <p>March 2010. 5th ISHEID Conference. Marseille, France. Invited speaker. <<Le développement de la résistance n’empêche pas la transmission du VIH>>.</p> <p>May 2010. Invited speaker. Université de Montréal. Montréal. <<La recherche multidisciplinaire sur le VIH au Québec>>.</p> <p>June 2010. University of Albany and New York. Department of Public Health. “Clustering of New HIV Wild-Type and Drug-Resistant Infections”.</p>

continued

June 2010. CIHR conference on Collaborative HIV Research in Africa. Kampala, Uganda. “**HIV subtypes Drug Resistance, and Cellular Innate Immunity**”.

July 2010. 18th International AIDS Conference. Vienna, Austria. Invited speaker at Satellite conference on Transmission. “**HIV Drug Resistance Mutations Impact on Viral Replication Fitness but not on Transmission**”.

SECTION II: MIMM CONSULTING ACTIVITIES

Name of Faculty Member	Number of days			Total
	Private Sector Consulting	Public Sector Consulting	Other (Please explain)	
Dr. Albert Berghuis	GeneChem Management			2
Dr. Albert Berghuis		CIHR, CHAIR BMB-A panel		6
Dr. Albert Berghuis		Canadian Space Agency: Senior Space Science Advisory Committee		3
Dr. Albert Berghuis		Canadian Space Agency: Chair - Physical Sciences Advisory Committees		10
Dr. Albert Berghuis		NIH (USA) - member DDR study section		9
Dr. James W Coulton	Boehringer Ingelheim Vetmedica GmbH			25
Dr. Sylvie Fournier		FRSQ		12
Dr. Matthias Götte	GSK, MERCK, BMS, Boehringer Ingelheim, Fenwick & West LLP	Ontario HIV Treatment Network		17
Dr. Ciro Piccirillo		CIHR		10
Dr. Ciro Piccirillo		NIH		12
Dr. Ciro Piccirillo		CDA		12
Dr. Ciro Piccirillo		EU		4
Dr. Ciro Piccirillo		British MRC		2
Dr. Ciro Piccirillo	Aegera Therapeutics			2
Dr. Ciro Piccirillo	Glaxo Smith Kline (GSK) Canada			20
Dr. Ciro Piccirillo	Glaxo Smith Kline (GSK) Europe			20
Dr. Ciro Piccirillo		JDRF		10
Dr. Mark Wainberg	World Health Organization			4
Dr. Mark Wainberg	FRSQ Réseau sur le SIDA			15
Dr. Donald Sheppard	Pfizer, Merck and Astellas.			10
Total Consulting Days:				205

SECTION II: MIMM Research funding from all sources

Agency	Title	Funding Amount	First Name	Last Name
CIHR, Canadian Inst of Health Research				
	CIHR Operating Grant PRG-82674	\$ 126,131.50	James W.	Coulton
	Structural Biology Of Bacterial Membrane Proteins	\$ 227,370.75	James W.	Coulton
	Development of a new generation of live vaccines using Lactococcus lactis	\$ 184,824.00	Benoit	Cousineau
	Molecular mechanisms involved in HIV drug resistance to different classes of RT inhibitors	\$ 157,033.25	Matthias	Gotte
	Mechanism of inhibition of HIV-1 RT through delayed chain-termination	\$ 96,772.50	Matthias	Gotte
	Genetic dissection of the host response to intestinal infections	\$ 160,894.17	Samantha	Gruenheid
	CIHR, Canadian Inst of Health Research	\$ 83,333.33	Samantha	Gruenheid
	CIHR, Canadian Inst of Health Research	\$ 41,666.67	Samantha	Gruenheid
	CIHR Operating Grant MOP-102570	\$ 90,310.50	Herve	Le-Moual
	Molecular mechanisms of oncogenesis by sheep retrovirus envelope proteins	\$ 95,973.33	Shan-Lu	Liu
	Developmental And Cell-Cycle Control Of Chromosome Replication	\$ 116,064.17	Gregory T.	Marczynski
	Molecular Characterisation Of Leishmania Infection	\$ 200,247.25	Greg J.	Matlashewski
	CD4+CD25+ immunoregulatory T cell function in Type 1 autoimmune diabetes	\$ 188,379.83	Ciriaco	Piccirillo
	CIHR/end MS Team in Immune Regulation and Biomarker Development for Pediatric and Adult Autoimmune Diseases	\$ 85,000.00	Ciriaco	Piccirillo
	Immunomodulation of regulatory mechanisms in mucosal immunity: A multi disciplinary bench to bedside approach to the study and treatment	\$ 107,115.66	Ciriaco	Piccirillo
	Defining immunological checkpoints to enhance cancer immunotherapy	\$ 56,666.67	Ciriaco	Piccirillo
	Developmentally dependent virulence mechanisms of the invasive mold Aspergillus fumigatus	\$ 111,610.58	Donald	Sheppard

Agency	Title	Funding Amount	First Name	Last Name
Canadian Cystic Fibrosis Foundation				
	Canadian Cystic Fibrosis Foundation	\$ 106,958.33	Donald	Sheppard
Canadian Diabetes Association				
	Functional impact of CD4+FOXP3+regulatory T cells in autoimmune diabetes	\$ 77,916.67	Ciriaco	Piccirillo
FRSQ				
	FRSQ/GEPROM/BRDV - UDEM (R0010272)	\$ 5,833.33	James W.	Coulton
	Frsq CB #15835	\$ 99,769.92	Benoit	Cousineau
	Frsq CB Sr #16329	\$ 104,458.92	Matthias	Gotte
Fonds de recherche sur la nature (FQRNT)				
	Centre de recherche en infectiologie porcine - CRIP	\$ 10,211.50	James W.	Coulton
	FQRNT RS 130915 X-coded to 217752	\$ 17,425.00	Benoit	Cousineau
	FQRNT PR 132815 X-coded 217720	\$ 25,528.33	Matthias	Gotte
Glaxo Smith Kline				
	GlaxoSmithKline	\$ 45,500.00	Matthias	Gotte
	GlaxoSmithKline Bio	\$ 211,750.00	Ciriaco	Piccirillo
Harbor - UCLA Medical Center				
	Development of New Models of Invasive Aspergillosis	\$ 34,375.00	Donald	Sheppard
	Transcriptional Regulation of A Fumigatus Virulence	\$ 113,241.25	Donald	Sheppard
Multiple Sclerosis Society of Canada				
	Pathogenic mechanisms in an animal model of CD8+T cell-mediated demyelinating disease	\$ 128,120.83	Sylvie	Fournier
Natural Sciences and Engineering Research Council of Canada				
	Cbl Interface For Vitamin B12 Metabolism	\$ 39,666.67	James W.	Coulton
	Evolution Of Mobile Group II Introns	\$ 60,208.33	Benoit	Cousineau
	Role Of B7.2 Costimulation In T Cell Homeostasis	\$ 42,500.00	Sylvie	Fournier

Agency	Title	Funding Amount	First Name	Last Name
	Signal Transductin By Bacterial Ser/Thr Kinases Nserc Rgpin 23038-09	\$ 35,416.67 \$ 43,916.67	Herve Byong	Le-Moual Lee
	Nserc Rgpin 184894-09	\$ 58,083.33	Gregory T.	Marczynski
	Function Of The Alternatively Spliced P53 Gene	\$ 45,333.33	Greg J.	Matlashewski
IDRI-Gates Foundation				
	IDRI-Gates Foundation	\$ 94,398.33	Greg J.	Matlashewski
McGill University				
	CRC/CIHR/Tier2/Gruenheid	\$ 91,666.67	Samantha	Gruenheid
	CRC/CIHR/Tier2/Liu	\$ 83,333.33	Shan-Lu	Liu
	CRC/Liu/x-code/217205	\$ 12,500.00	Shan-Lu	Liu
	CRC/CIHR/Tier2/Renewal/Piccirillo	\$ 141,666.67	Ciriaco	Piccirillo
	CRC/Piccirillo/x-coded/206846	\$ 35,416.67	Ciriaco	Piccirillo
Boehringer Ingelheim GmbH				
	Boehringer Ingelheim Vetmedica GMBH	\$ 245,043.00	James W.	Coulton
Poultry Industry Council				
	Poultry Industry Council	\$ 11,250.00	Byong	Lee
Tibotec Pharmaceuticals Limited				
	Biochemical Characterization of a Novel Class of Antiviral Compounds with Activity Against HCV NS5B Polymerase and/or HIV RT	\$ 155,720.83	Matthias	Gotte
Merck & Co. Inc				
	Understanding & Exploiting the Mechanism of Raltegravir	\$ 35,833.33	Matthias	Gotte
Cancer Research Society Inc				
	Cancer Research Society Inc	\$ 45,000.00	Matthias	Gotte
Total Grants received from June 2009 to December 2010:		\$ 4,387,437.07		

APPENDIX I: PUBLICATIONS

For the period covering June 2009 – December 31, 2010

Malcolm Baines

Baines M. G. *Innate and Adaptive Immune Responses to Virus Infection. Fundamentals of Molecular Virology, 2nd Edition*, N. H. Acheson, John Wiley & Sons, December, 2010.

Albert Berghuis

Peer reviewed:

Rodionov, D., Romero, P.A., Berghuis, A.M.* & Herscovics, A. (2009) Expression and purification of recombinant M-Pol I from *Saccharomyces cerevisiae* with α -1,6 mannosylpolymerase activity. *Protein Expr. Purif.*, 66, 1-6. (*corresponding author; published after the passing of Dr. A. Herscovics; (times cited: 2)

Mirza, I.A., Yachnin, B.J., Wang, S., Grosse, S., Bergeron, H., Imura, A., Iwaki, H., Hasegawa, Y., Lau, P.C.K. & Berghuis, A.M. (2009) Crystal structures of cyclohexanone monooxygenase reveal complex domain movements and a sliding cofactor. *J. Am. Chem. Soc.* 131, 8848-8854. (times cited: 11)

Fong, D.H. & Berghuis, A.M. (2009) Structural basis of APH(3')-IIIa mediated resistance to N1-substituted aminoglycoside antibiotics. *Antimicrob. Agents Chemother.* 53, 3049-3055. (times cited: 3)

Volpato, J.P.*, Yachnin B.J.*, Blanchet, J. Guerrero, V., Poulin, L., Fossati, E., Berghuis, A.M. & Pelletier, J.N. (2009) Multiple conformers in active site of human dihydrofolate reductase F31R/Q35E double mutant suggest structural basis for methotrexate resistance. *J. Biol. Chem.* 284, 20079-20089. (*authors contributed equally; times cited: 1)

Fong, D.H., Lemke, C.T., Hwang, J., Xiong, B. & Berghuis, A.M. (2010). Structure of the antibiotic resistance factor spectinomycin phosphotransferase from *Legionella pneumophila*. *J. Biol. Chem.* 285, 9545-9555. (times cited: 3)

Gomez, M.A., Ali-Saraie, L., Shio, M.T., Berghuis, A.M., Lebrun, C., Gautier-Luneau, I. & Olivier, M. (2010). Protein tyrosine phosphatases are regulated by mononuclear iron dicitrate. *J. Biol. Chem.* 285, 24620-24628. (times cited: 1)

Book chapters:

Matte, A., Kozlov, G., Trempe, J. -F., Currie, M.A., Burk, D., Jia, Z., Gehring, K., Ekiel, I., Berghuis, A. M. & Cygler, M. (2009) Preparation and characterization of bacterial protein complexes for structural analysis, In *Advances in Protein Chemistry and Structural Biology* (ed. A. Joachimiak) , Vol 76 *Structural Genomics, Part B*, pp 1-42. Elsevier.

Lau, P.C.K., Leisch, H., Yachnin, B.J., Mirza, I.A., Berghuis, A.M., Iwaki, H. & Hasegawa, Y. (2010) Sustained development in Baeyer-Villiger biooxidation technology, In *Green Polymer Chemistry: Biocatalysis and Biomaterials* (eds. Cheng, H.N & Gross, R.A.), Vol 1043 of ACS Symposium series, pp 343-372. ACS Publications

Dalius Briedis

Briedis, D.J. "Orthomyxoviruses", pp. 248-261 In, *Fundamentals of Molecular Virology, 2nd Edition*, N.H. Acheson, ed. , John Wiley & Sons, December, 2010.

Briedis, D.J. "Prions", pp. 323-332 In, *Fundamentals of Molecular Virology, 2nd Edition*. N.H. Acheson, ed. , John Wiley & Sons, December, 2010.

James Coulton

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Gouré, J., Findlay, W.A., Deslandes, V., Bouevitch, A., Foote, S.J., MacInnes, J.I., **Coulton, J.W.**, Nash, J.H.E., and Jacques, M. (2009) Microarray-based comparative genomic profiling of reference strains and selected Canadian field isolates of *Actinobacillus pleuropneumoniae*. *BMC Genomics* **10**:88 (15 pages).

Benoit Cousineau

Dayyeh, I.A., Ralph, B., Grayfer, L., Belosevic, M., **Cousineau, B.**, and Olivier, M. (2010) Identification of key cytosolic kinases containing evolutionarily conserved kinase tyrosine-based inhibitory motifs (KTIMs). *Developmental and Comparative Immunology* **34**, 481-484.

Sylvie Fournier

Johnson TA, Jirik FR and Fournier S. Exploring the roles of CD8(+) T lymphocytes in the pathogenesis of autoimmune demyelination. *Semin. Immunopathol.* **32**(2):197-209. 2010

Berard JL, Wolak K, Fournier S and David S. Characterization of relapsing-remitting and chronic forms of experimental autoimmune encephalomyelitis in C57BL/6 mice. *Glia.* **58**:434-45, 2010.

Jörg Fritz

Sellge G., Magalhaes J.G., Konradt C., **Fritz J.H.**, Salgado-Pabon W., Eberl G., Bandeira A., Di Santo J.P., Sansonetti P.J., Phalipon A. (2010) Th17 cells are the dominant T Cell subtype primed by *Shigella flexneri* mediating protective immunity. *Journal of Immunology* **184**(4):2076-85

Le Bourhis L., Magalhaes J.G., Selvanantham T., Travassos L.H., Geddes K., **Fritz J.H.**, Viala J., Tedin K., Girardin S.E., Dana J. Philpott (2009) Role of Nod1 in mucosal dendritic cells during Spi-1 independent Salmonella infection. *Infect Immun.* **2009 Oct**;77(10):4480-6

Matthias Götte *corresponding author, trainees are underlined.

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Effects of Mutations F61A and A62V in the Fingers Subdomain of HIV-1 Reverse Transcriptase on the Translocational Equilibrium.

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N348I in HIV-1 reverse transcriptase can counteract the nevirapine-mediated bias toward RNase H cleavage during plus-strand initiation.

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Structure-Activity Analysis of Vinylogous Urea Inhibitors of Human Immunodeficiency Virus-Encoded Ribonuclease H.

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von Wyl V, Ehteshami M, Demeter LM, Bürgisser P, Nijhuis M, Symons J, Yerly S, Böni J, Klimkait T, Schuurman R, Ledergerber B, **Götte M**, Günthard HF; Swiss HIV Cohort Study.

HIV-1 reverse transcriptase connection domain mutations: dynamics of emergence and implications for success of combination antiretroviral therapy

Clin Infect Dis. 2010 Sep 1;51(5):620-8.

von Wyl V, Ehteshami M, Symons J, Bürgisser P, Nijhuis M, Demeter LM, Yerly S, Böni J, Klimkait T, Schuurman R, Ledergerber B, **Götte M**, Günthard HF; Swiss HIV Cohort Study. Epidemiological and Biological Evidence for a Compensatory Effect of Connection Domain Mutation N348I on M184V in HIV-1 Reverse Transcriptase.

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Beilhartz GL and **Götte M***.

HIV-1 Ribonuclease H: Structure, Catalytic Mechanism and Inhibitors

Viruses 2010, 2(4), 900-926; Review

Götte M, Rausch JW, Marchand B, Sarafianos S, Le Grice SF.

Reverse transcriptase in motion: Conformational dynamics of enzyme-substrate interactions.

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Books

Eds. CE Cameron, **M Götte** and K Raney.

Viral Genome Replication

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Book Chapters

J. Deval and **M. Götte**

Nucleoside analogue inhibitors of HIV-1 RT

In 'Antiviral Research' Ed. Robert LaFemina, ASM Press, 2009

Samantha Gruenheid

LeSage V, Zhu L, Portt A, Gruenheid S, LeMoual H. "An outer membrane protease of the omptin family prevents activation of the *Citrobacter rodentium* PhoPQ two-component system by antimicrobial peptides." *Mol Microbiol.* 74: 98-111, 2009.

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John Hiscott

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Nakhaei P, Genin P, Civas A, **Hiscott J.** RIG-I-Like Receptors: Sensing and responding to RNA virus infection. *Seminars in Immunology* 21: 215-222 (2009).

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Herve Le Moual

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Gregory T. Marczyński

Rajagopalan M, Dziedzic R, Al Zayer M, Stankowska D, Ouimet MC, Bastedo DP, Marczyński GT, Madiraju MV. Mycobacterium tuberculosis origin of replication and the promoter for immunodominant secreted antigen 85B are the targets of MtrA, the essential response regulator. *J Biol Chem.* 2010 May 21;285(21):15816-27. Epub 2010 Mar 11. PMID: 20223818 [PubMed - indexed for MEDLINE]

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Greg Mathlashewski (on leave)

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McCall, L-I., and Matlashewski, G. Localization and induction of the A2 virulence factor in *Leishmania*: Evidence that A2 is a stress response protein. *Mol. Micro.* 77: 518-530, 2010

Miranda-Verastegui, C., Tulliano, G., Gyorkos, T., Calderon, W., Rahme, E., Ward, B., Cruz, M., Llanos-Cuentas, A., and Matlashewski, G. First-line therapy for human cutaneous leishmaniasis involving the TLR 7 agonist imiquimod in combination with pentavalent antimony: Results from a randomized double-blind clinical trial in Peru. *PLoS-Negl Trop Dis* 3: e491, 2009.

Martin Olivier

J. Blanchette, I. Abu-Dayyeh, K. Hassani, L. Withcombe and **M. Olivier**. Macrophage nitric oxide regulation by the phosphotyrosine phosphatase SHP-1. *Immunology* 127: 123-133 (2009)

P. Pouliot, P. Camateros, D. Radzioch and **M. Olivier**. Protein tyrosine phosphatase regulates asthma development in a murine asthma model. *Journal of Immunology* 182: 1334-1340 (2009)

M. Hallé, M.A. Gomez, M. Stuiblé, W.R. McMaster, **M. Olivier*** and M.L. Tremblay*. The *Leishmania* surface protease GP63 cleaves multiple intracellular proteins and actively participates in p38 Mitogen Activated Protein Kinase inactivation. *Journal of Biological Chemistry* 284: 6893-6908 (2009) *Equal co-corresponding authors.

M. Urb, P. Pouliot, F.N. Gravelat, **M. Olivier** and D.C. Sheppard. *Aspergillus fumigatus* induces IgE-independent mast cell degranulation. *Journal of Infectious Diseases* 200: 464-472 (2009)

E. Auger, V. Deslandes, M. Ramjeet, I. Contreras, J.H.E. Nash, J. Harel, M. Gottschalk, **M. Olivier** and M. Jacques. Host Pathogen Interactions of *Actinobacillus pleuropneumoniae* with Porcine Lung and Tracheal Epithelial Cells. *Infection and Immunity* 77: 1426-1441 (2009)

M.J. Bellemare, D. Scott Bohle, C. Nadeau-Brosseau, E. Georges, M. Godbout, J. Kelly, M.L. Leimanis, R. Leonelli, **M. Olivier** and M. Smilkstein. Auto fluorescence of condensed heme aggregates in malaria pigment and its synthetic equivalent hematin anhydride. *Journal of Physical Chemistry* 113: 8391-8401(2009)

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P. Pouliot, S. Bergeron, A. Marette and **M. Olivier**. The role of protein tyrosine phosphatases in the regulation of allergic asthma: Implication of TC-PTP and PTP-1B in the modulation of disease development.

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P. Pouliot and **M. Olivier**. Opposing forces in asthma: Regulation of signalling pathways by kinases and phosphatases.

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I. Abu-Dayyeh, B. Ralph, L. Grayfer, M. Belosevic, B. Cousineau and **M. Olivier**. Identification of Key Cytosolic Kinases Containing Evolutionarily Conserved Kinase Tyrosine-based Inhibitory Motifs (KTIMs).

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M.T. Shio, F.H. Kassa, M.-J. Bellemare and **M. Olivier**. *Plasmodium* Hemozoin: Potential Role in Malaria Inflammatory-Mediated Pathologies.

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PUBLICATIONS

M.C. Dominguez-Purano, M. Segura, I. Contreras, C. Lachance, M. Haude, N.-P. Lecours, **M. Olivier** and M. Gottschalk. In vitro characterization of the microglial inflammatory response to *Streptococcus suis*, an important emerging zoonotic agent of meningitis.

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Ciro Piccirillo

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Piccirillo C.A. Treg's Alter Ego: An Accessory in Tumor Killing. *Immunity*, 2010 (In press, December 2010).

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Donald Sheppard

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