



a place of mind

THE UNIVERSITY OF BRITISH COLUMBIA



**SECTION 1:
Organization**



**SECTION 2:
Education**



**SECTION 3:
Research**



**SECTION 4:
Revenues & Budget**

Pathology at a Glance 2009-2010

 **pathology**
laboratory medicine
UNIVERSITY OF BRITISH COLUMBIA



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"Pathology at a Glance" provides an overview of the Department's administration education and research activities for 2009-2010.

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A Message from The Acting Head

Michael F. Allard BSc MD FRCPC

The Department of Pathology and Laboratory Medicine at UBC is a hybrid, clinically-and academically-intensive Department within the UBC Faculty of Medicine whose activities span a broad spectrum of clinical practice, teaching, research, and service and are ultimately devoted to improving the care, treatment, and well-being of patients. A characteristic feature common to all these activities is knowledge, with members of our department playing a foundational role in the pathway of knowledge from its creation to its integration, dissemination, application, and interpretation. This role can readily be appreciated by reflection upon specific activities and accomplishments by our department and its members.

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As practicing physicians and laboratory scientists, specialists in pathology and laboratory medicine are intimately involved in patient care providing critical diagnostic, interpretive, and consultative support to clinical programs at UBC-affiliated health care facilities and are recognized for their expertise regionally and provincially as well as elsewhere in Canada and the world. In addition, the department has nationally and internationally recognized academic clinical outreach programs that support laboratory quality and management.

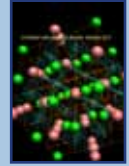
The UBC Department of Pathology and Laboratory Medicine offers academic degree programs at the bachelor's (Bachelor of Medical Laboratory Science (BMLSc)) and graduate (MSc, PhD) levels and provides or participates in undergraduate and graduate educational programs for students enrolled in other departments, faculties, and schools. The department also plays a major role in professional education, including, undergraduate education of physicians, dentists, and allied health professions; accredited residency (post-graduate)

training programs of the Royal College of Physicians and Surgeons of Canada; and continuing professional development and education.

Members of the department participate in activities that span the entire spectrum of research and scholarly work. A cadre of individuals, many of whom are also laboratory physicians (i.e., clinician scientists), perform basic investigative research and study the fundamental causes and mechanisms of disease. Others are at the forefront of translating discoveries generated during basic research investigations into clinical practice by a process of robust adaptation, implementation, and validation. Department members also make significant and important clinical research contributions that lead to advances in our understanding of disease and to critical evaluation of novel therapeutic interventions, while still more are active in the scholarship of education developing innovative ways of teaching pathology and laboratory medicine to both trainees and practitioners.

Faculty members and administrative staff of the department have also been extremely active in academic services of the department, the Faculty of Medicine, and external academically-oriented organizations and, in many instances, hold key leadership positions. Leadership and involvement in academic service, which is often not fully appreciated for its importance, provide essential support for all departmental activities and serves as a key enabling function.

Over the years, members of the department have been recognized for their accomplishments, contributions, and excellence across the spectrum of clinical, academic, and service activities. This year is no exception with department members being deservedly recognized locally, nationally, and internationally for their accomplishments and contributions. That these individuals were recognized for activities spanning the entire spectrum of departmental activities highlights the overall broad-based excellence of our department and its faculty, trainees, and staff and should not only make us very proud but also encourage us all by demonstrating what can be accomplished.



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ORGANIZATION

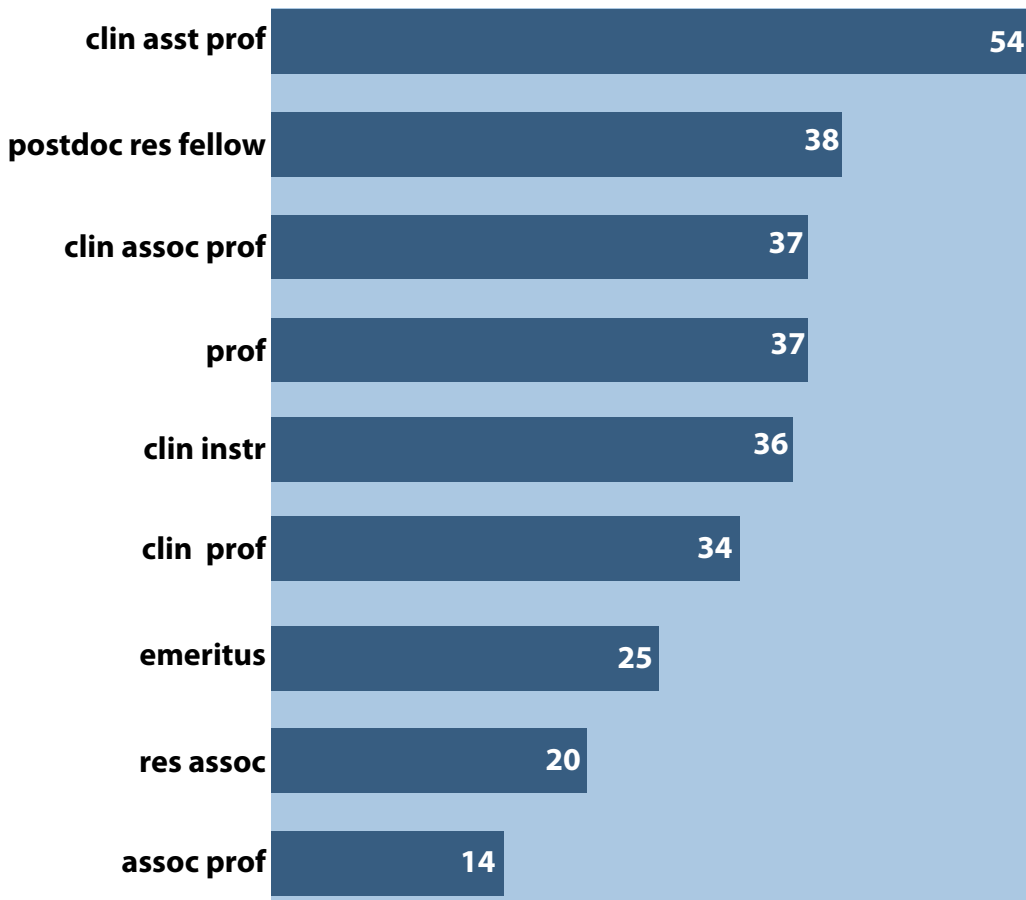
Section I

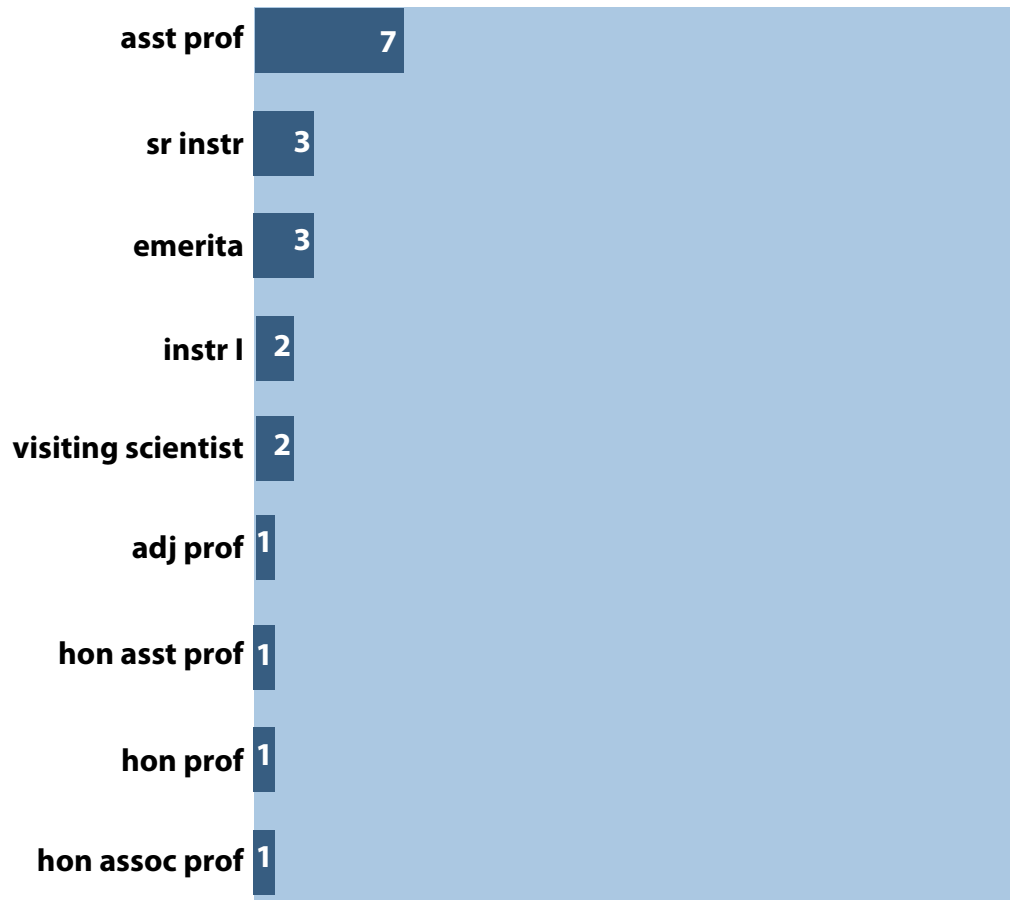
THE UNIVERSITY OF BRITISH COLUMBIA
DEPARTMENT OF PATHOLOGY & LABORATORY MEDICINE

Dr. Allard, Michael	ACTING DEPARTMENT HEAD		
Barfoot, Maureen	DIRECTOR		
ADMINISTRATION		EDUCATION	
Adrias, Grace	<i>Residency Program Coordinator</i>	Dr. Berean, Ken	<i>CME/CPD Director</i>
Barta, Ingrid	<i>Morphological Services Manager</i>	Dr. Doyle, Patrick	<i>Medical Microbiology Program Director</i>
Bertanjoli, Debbie	<i>Database/Info Systems Manager</i>	Dr. Ford, Jason	<i>Undergraduate Program and Pathology Learning Centre Director</i>
Doheny, Greg	<i>Education Technician</i>		
Dyck, Helen	<i>The DH Path Learning Ctr Manager</i>	Dr. Grove, Gerry	<i>Transfusion Medicine Program Director</i>
Giannias, Zoey	<i>Program Assistant</i>	Dr. Hudoba, Monika	<i>Hematological Pathology Program Director</i>
Lin, Tony	<i>Finance Clerk</i>	Dr. Ionescu, Diana	<i>Anatomical Pathology Program Director</i>
Liu, Sandy	<i>Human Resources Manager</i>	Dr. Mattman, Andre	<i>Medical Biochemistry Program Director</i>
Ma, Maggie	<i>LQM Program Assistant</i>	Dr. Moore, Wayne	<i>Neuropathology Program Director</i>
Martin, Susana	<i>Head's Secretary</i>	Dr. Nimmo, Michael	<i>General Pathology Program Director</i>
Mill, Carolyn	<i>Residency Program Assistant</i>	Dr. Park, Carol	<i>BLMSc Director</i>
Nickel, Delores	<i>Front Counter</i>	Dr. Pritchard, Haydn	<i>Graduate Program Director</i>
Pelington, Florida	<i>Finance Manager</i>	Dr. Wright, Jody	<i>Mentoring Program Director</i>
Rooney, Farrah/ Woo, Penny	<i>Graduate Program Assistant</i>		
Tai, Jenny	<i>Education Technician</i>		
Wouterse, Joanne	<i>BMLSc Program Assistant</i>		
Xenakis, Jennifer	<i>Educational Services Manager</i>		

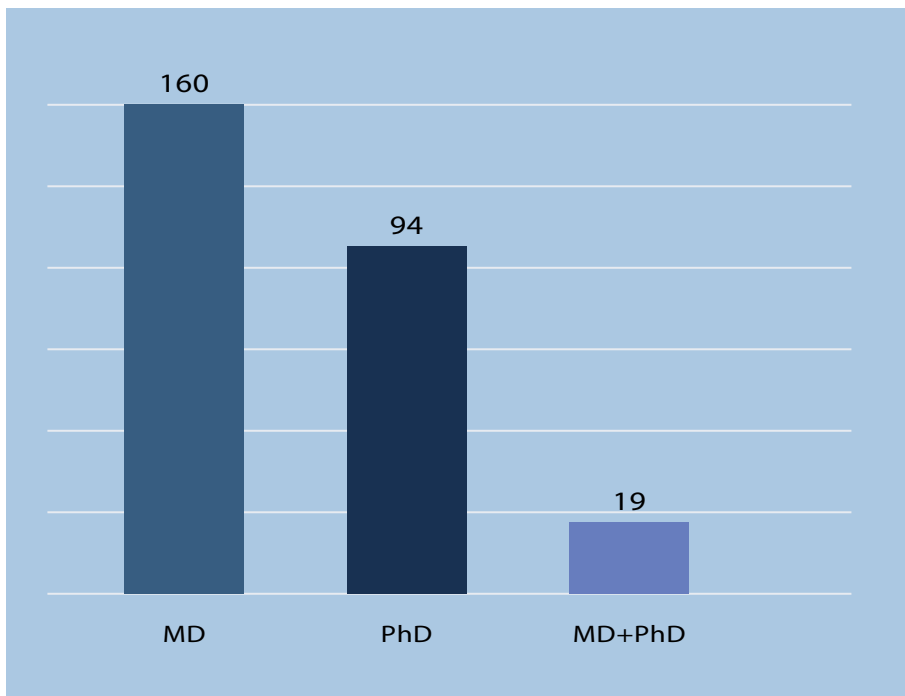
Faculty by Rank

•TOTAL: 316

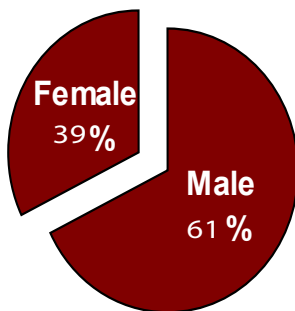




Degrees: MD & PhD

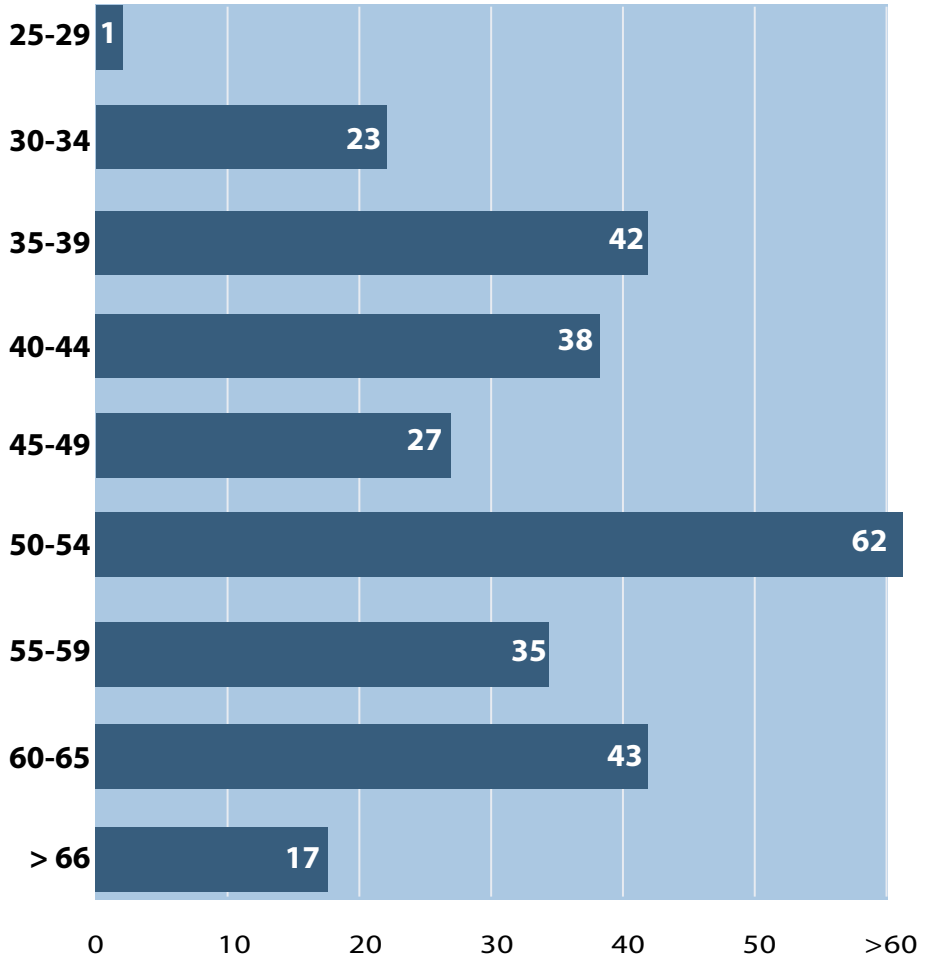


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Faculty Age Group

•TOTAL: 288



Note: Emeritus/Emerita not included

Employee Groups

Clinical Faculty	167
Academic Faculty	63
Postdoctoral Research Fellows, Research Associates & visitors	60
Secreterial/Clerical (CUPE 2950)	9
Management/Professional	13
Non-Union Technician & Research Assistants	68

Department Assignable Space (sq ft)

Site	Office	Wet Lab	Other	Total
C & W	1375.85	4183.75	1589.24	7148.84
St. Paul's Hospital	1846.60	290.60	1951.10	4088.30
UBC Hospital	3002.09	6518.30	4989.56	14509.95
VGH	1222.19	3064.66	4081.35	8368.20
Total	7446.73	14057.31	12611.25	34115.29

Geographic Sites

UBC Teaching Hospitals

- a) BC Children's Hospital
- b) BC Women's Hospital
- c) Lion's Gate Hospital
- d) Prince George General Hospital
- e) Richmond General Hospital
- f) Royal Columbian Hospital
- g) Royal Jubilee Hospital
- h) St. Paul's Hospital
- i) Sunny Hill Health Centre for Children
- j) UBC Hospital & Urgent Care Centre
- k) Vancouver General Hospital
- l) Victoria General Hospital
- o) Surrey Memorial

Affiliation with UBC Research Institutes & Centres

A) Providence Health Care Research Institute

- i) BC Centre For Excellence For HIV/AIDS
- ii) James Hogg iCAPTURE Centre For Cardiovascular And Pulmonary Research
- iii) Healthy Heart Program / Lipid Clinic
- iv) Centre For Health Evaluation And Outcome Sciences

B) BC Cancer Research Centre

- i) Advanced Therapeutics
- ii) Cancer Control Research
- iii) Cancer Endocrinology
- iv) Cancer Genetics
- v) Developmental Biology
- vi) Cancer Imaging
- vii) BC Cancer Agency's Trev & Joyce Deeley Research Centre

viii) BC Cancer Agency's Michael Smith Genome Sciences Centre

ix) Medical Biophysics

x) Molecular Oncology and Breast Cancer Program

xi) Terry Fox Laboratory

xii) Tumour Tissue Repository

xiii) Prostate Cancer Research Program

C) British Columbia Centre for Disease Control (BCCDC)

i) UBC Centre for Disease Control

D) Vancouver Coastal Health Research Institute

i) Jack Bell Research Centre - Hosts collaboration GPEC group

ii) Skin Care Centre

iii) Arthritis Centre

iv) Eye Care Centre

v) The Prostate Centre

vi) Clinical Microbiology Proficiency Testing Program (CMPT)

- vii) BRAIN Research Centre
- viii) International Science of Soft Surfaces & Interfaces Project
- ix) Centre for Blood Research
- x) CFI Laboratory for Molecular Biophysics

E) Child & Family Research Institute (CFRI)

- i) Centre for Microbial Diseases & Host Defense Research
- ii) Centre for Molecular Medicine and Therapeutics (CMMT)
- iii) Centre for Nutrition Research
- iv) Centre for Growth and Development
- v) Centre For Community Health And Health Evaluation
- vi) Centre For Community Child Health Research
- vii) BC Injury Research And Prevention Unit
- viii) Clinical Research Support



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EDUCATION Section 2

Medical Undergraduate Pathology Teaching

	# of Instructors	# of Hours	# of Students
Lectures	65	87	620 (1 st & 2 nd)
CPC- Large Group	32	30.5	620 (1 st & 2 nd)
CPC – small group	56	404	620 (1 st & 2 nd)
PBL/DPAS	N/A	N/A	
Electives and selectives		96 weeks	24

Bachelor of Medical Laboratory Science Program

Number of Students	40
BMLSc program courses	14
Instructors (Faculty, technologists, others)	77
Lecture hours	700
Other types of Instruction - hours	244

Basic Science Undergraduate Course

Course	# of credits	# of students
Path 375 –Intro Pathology	3	96
Path 417- Bacterial infections	6	13
Path437/Micb407	3	29
Path 427 - Basic Principles of Infection Control	3	25
Path 451 - Clerkship in Laboratory Medicine and Infection Prevention and Control	3	9
Path 467 - Basic Microbiology for Infection Control	3	20
Path 477 - Basic Epidemiology for Infection Control	3	13
Total	24	277

Graduate Studies

Program of study	Students
Masters	15
PhD	55
MD/PhD	2
Total	72
# of supervisors	32

Residency Program

Program	Residents
Anatomic Path/ General Path	23
Medical Biochemistry	4
Medical Microbiology	4
Hematological Pathology	4
Neuropathology	4
PGY – 1	9
Transfusion Medicine	1
Total	49
Clinical Fellows	2

These numbers are as of July 1, 2009.

Continuing Professional Development

Program	# of participants
Diagnostic Immunohistochemistry (April 2009)	150
Laboratory Quality Control	85
Infection Control Certificate	77
BC Cytology Day (May 2009)	70
Total	363

Special Yearly Event

Pathology Day 2009

James Hogg Keynote Lecture:

Dr. Jay Levy, University of California, San Francisco

"The Global HIV/AIDS Pandemic: How Science Faces the Challenge"

of oral presentations by residents/trainees and graduates students: 27

of posters: 47

The Resident oral presentation award winners:

1st Place - Terry Jefferson

"NTRK2 Expression Predicts Improved Survival in Squamous Cell Carcinoma of Lung"

2nd place – David Schaeffer

"Insulin-Like Growth Factor-2 mRNA Binding Protein 3 (IGF2BP3) Expression May Be a Marker for a Unfavorable Prognosis in Pancreatic Ductal Adenocarcinoma"

3rd place - Tony Ng

"The Anokis Stress Response Induces the AMPK Energy-sensing Pathway to Promote Survival in Transformed Cells"

The Graduate oral presentation award winners:

1st Place - Tie between Varun Saran and Agatha Jassem

Varun Saran: *"Control of Glycolysis in Cardiac Hypertrophy: Interaction of Hexokinase and Voltage Dependant Anion Channel"*

Agatha Jassem: *"Outer Membrane Mediated Aminoglycoside Resistance in the Burkholderia Cepacia Complex"*

2nd place – Henry Stringer

"Mitochondrial DNA (mtDNA) Depletion and Deletion in Statin-Induced Myopathy"

3rd place - Marissa Jitratkosol

“Mitochondrial DNA (mtDNA) Mutations in Infants Exposed to HAART in utero”

Poster presentation award winners:

1st Place - Paul Hiebert

“Granzyme B in skin aging and extracellular matrix degradation in apolipoprotein E deficient mice”

2nd place - Sara Giesz

“Practical solutions in biobank facilitation: The BC Biobank initiative”

3rd place - Lisa S. Ang

“Extracellular activity of granzyme B contributes to abdominal aortic aneurysm and rupture”

Faculty Recognition Awards:

Dr. Rusung Tan:	Most Valuable Player
Dr. Phil Clement:	David Hardwick Lifetime Achievement
Dr. Louis Wadsworth:	David Hardwick Lifetime Achievement
Dr. Blake Gilks:	Award for Excellence in Research and Discovery
Dr. Diane Roscoe:	Award for Excellence in Education
Dr. Bonnie Massing:	Award for Excellence in Service
Ms. Penny Woo:	Staff Service Award



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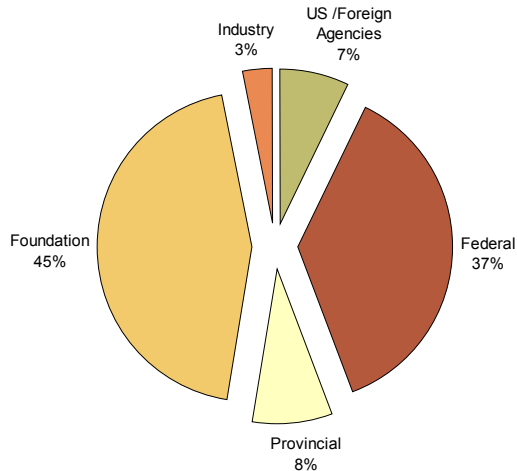
RESEARCH

Section 3

Research Grant Funding Sources F / Y 2009-2010

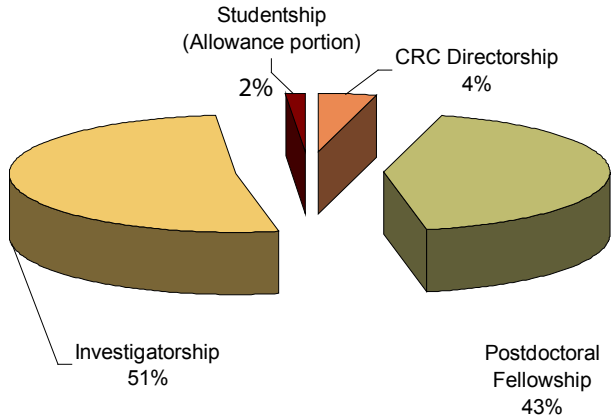
Research Awards Funding Sources (\$)

US /Foreign Agencies	\$1,291,793.23
Federal	\$6,691,574.32
Provincial	\$1,490,247.00
Foundation	\$8,041,892.28
Industry	\$547,856.19
Total	\$18,063,363.02



Personnel Awards F / Y 2009-2010

Personnel Awards (\$)	
CRC Directorship	\$100,000.00
Postdoctoral Fellowships	\$1,002,493.00
Investigatorships	\$1,211,367.00
Studentship (Allowance portion)	\$35,518.94
Total	\$2,349,378.94



Publications 2009-2010

Published Work	
Refereed/Non-refereed Publications	420
Conference Proceedings/ Abstracts	265
Books	23
authored	2
chapters	21
Patents	8



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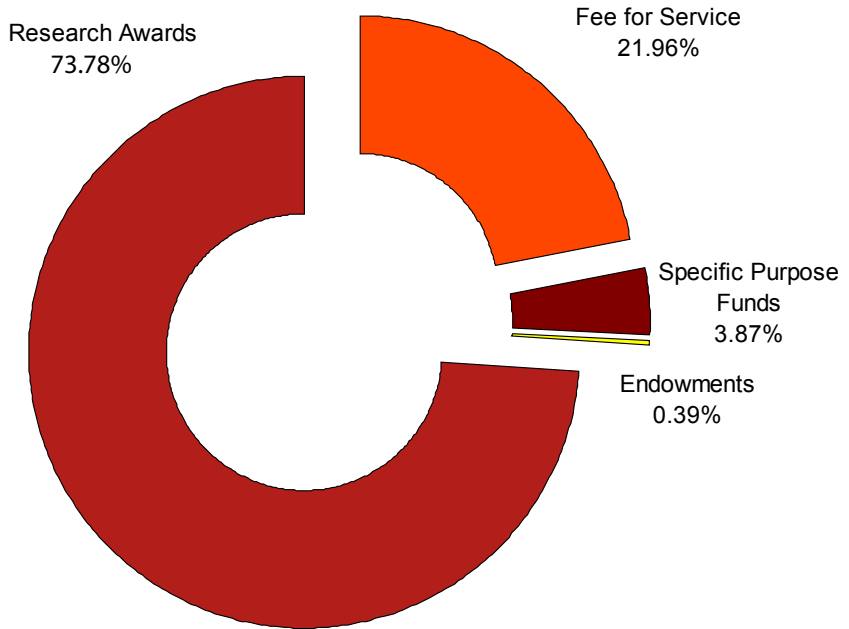
REVENUES & BUDGET

Section 4

Department Funds F / Y 2009-2010

Funds (\$)	
General Purpose Operating Fund	\$4,343,572.00
Fee for Service	\$5,376,017.58
Specific Purpose Funds	\$946,567.93
Endowments	\$94,345.70
Research Awards	\$18,063,363.02
Total	\$28,823,866.23

Department Funds (\$)



NOTES



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