

# PATHOLOGY AT A GLANCE 2010 - 2011



a place of mind

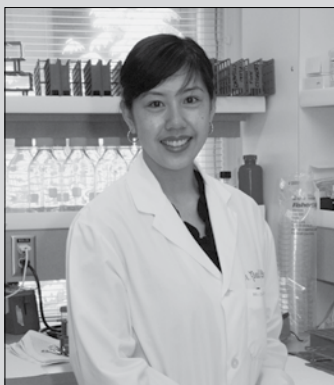
THE UNIVERSITY OF  
BRITISH COLUMBIA

pathology  
laboratory medicine



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**"Pathology at a Glance" provides an overview of  
the Department's administration education  
and research activities for 2010-2011."**



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# A Message from The Head

Michael F. Allard BSc MD FRCPC

The Department of Pathology and Laboratory Medicine at UBC is a hybrid, an academically intensive Department within the UBC Faculty of Medicine whose activities span a broad spectrum of teaching, research, and academic service, often performed in the milieu of clinical practice, 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 who are also laboratory physicians (i.e., clinician scientists), performs basic investigative research into 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 are also 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 for their accomplishments and contributions spanning the entire spectrum of departmental activities highlighting the overall broad-based excellence of our department and its faculty, trainees, and staff and indicating that we should not only be very proud but also be encouraged by demonstrating what can be accomplished.

A

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# ORGANIZATION

# THE UNIVERSITY OF BRITISH COLUMBIA

## DEPARTMENT OF PATHOLOGY & LABORATORY MEDICINE

Dr. Allard, Michael      DEPARTMENT HEAD  
Barfoot, Maureen      DIRECTOR

### ADMINISTRATION

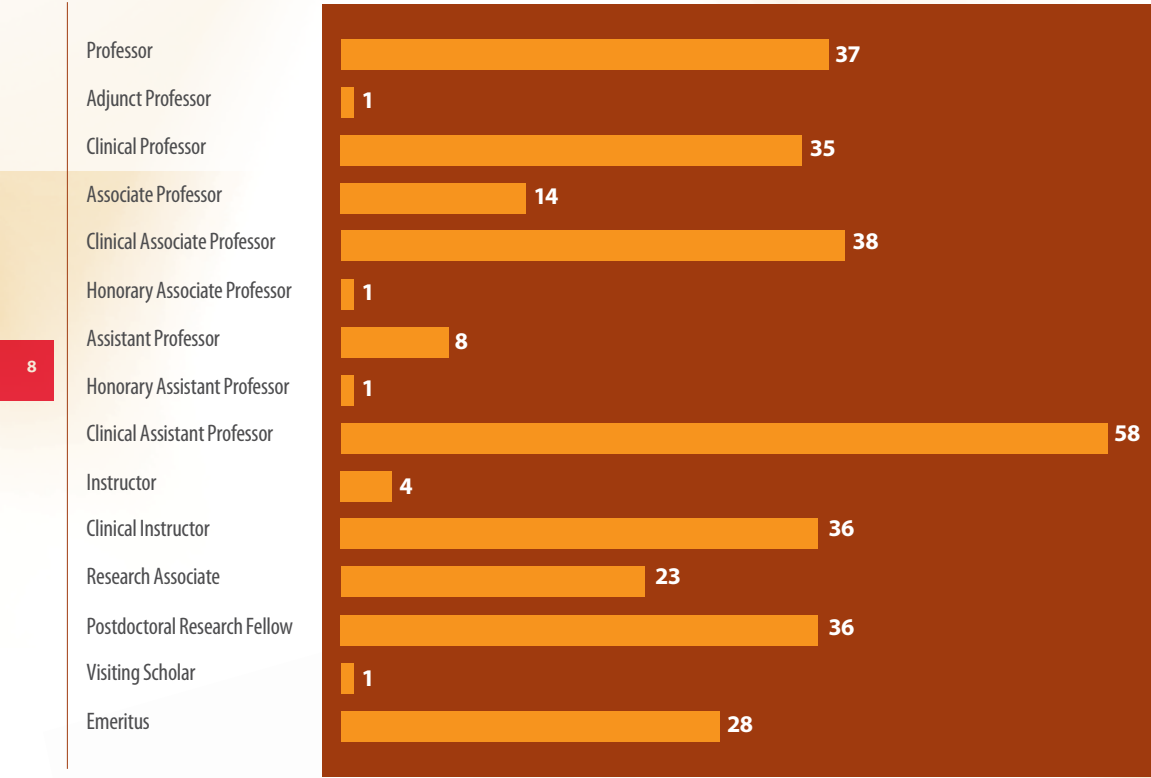
Adrias, Grace      *Residency Program Coordinator*  
Amisano, Rita      *HR Admin Assistant*  
Barta, Ingrid      *Morphological Services Manager*  
Bertanjoli, Debbie      *Database/Info Systems Manager*  
Doheny, Greg      *Education Technician*  
Dyck, Helen      *The DH Path Learning Ctr Manager*  
Giannias, Zoey      *Program Assistant*  
Lin, Tony      *Finance Clerk*  
Liu, Sandy      *Human Resources Manager*  
Ma, Maggie      *LQM Program Assistant*  
Mill, Carolyn      *Residency Program Assistant*  
Pelingon, Florida      *Finance Manager*  
Sherman, Barbara      *Executive Assistant*  
Tai, Jenny      *Education Technician*  
Wouterse, Joanne      *BMLSc Program Assistant*  
Xenakis, Jennifer      *Educational Services Manager*

### EDUCATION

Dr. Berean, Ken      *CME/CPD Director*  
Dr. Doyle, Patrick      *Medical Microbiology Program Director*  
Dr. Dunham, Christopher      *Neuropathology Program Director*  
Dr. Ford, Jason      *Undergraduate Program and  
Pathology Learning Centre Director*  
Dr. Grove, Gerry      *Transfusion Medicine Program Director*  
Dr. Hudoba, Monika      *Hematological Pathology Program  
Director*  
Dr. Ionescu, Diana      *Anatomical Pathology Program Director*  
Dr. Mattman, Andre      *Medical Biochemistry Program Director*  
Dr. Nimmo, Michael      *General Pathology Program Director*  
Dr. Park, Carol      *BLMSc Director*  
Dr. Pritchard, Haydn      *Graduate Program Director*  
Dr. Wright, Jody      *Faculty Mentoring Program Director*

# FACULTY BY RANK

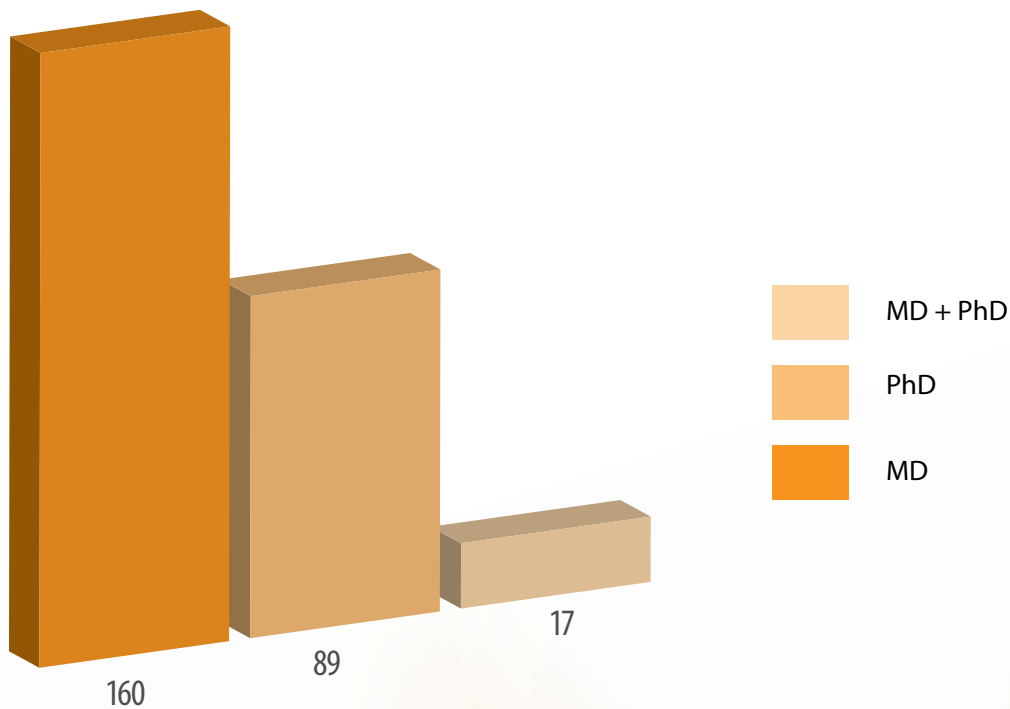
Total: 321





# DEGREES: MD & PhD

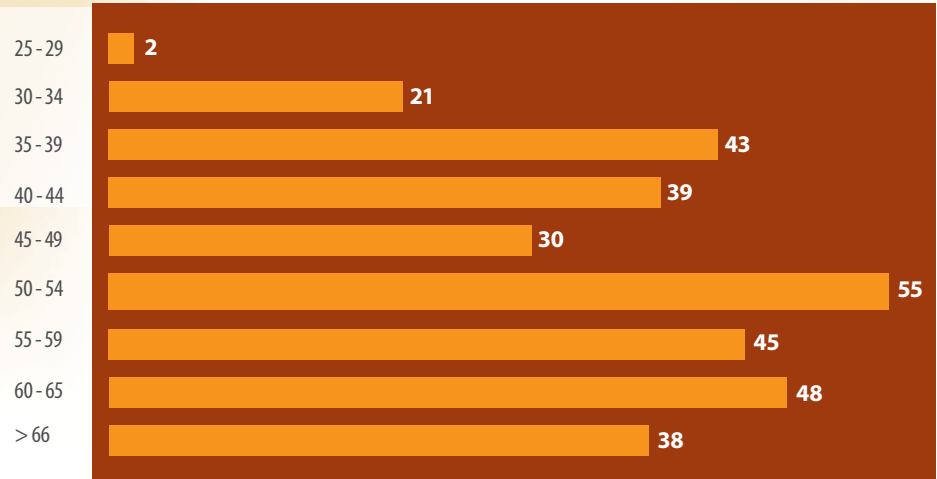
Including Emeritus and Emerita



# FACULTY BY AGE GROUP

Total: 321

Age group



# EMPLOYEE GROUPS

2010 - 2011

Clinical Faculty	171
Academic Faculty	115
Postdoctoral Research Fellows, Research Associates & visitors	35
Secreterial/Clerical (CUPE 2950)	10
Management/Professional	14
Non-Union Technician & Research Assistants	129

# 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

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**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) Biomedical Research Centre

- ix) BC Cancer Agency's Michael Smith Genome Sciences Centre
- x) Medical Biophysics
- xi) Molecular Oncology and Breast Cancer Program
- xii) Terry Fox Laboratory
- xiii) Tumour Tissue Repository
- xiv) Prostate Cancer Research Program

**C) British Columbia Centre for Disease Control (BCCDC)**

- i) UBC Centre for Disease Control

**D) Vancouver Coastal Health Research Institute**

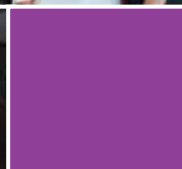
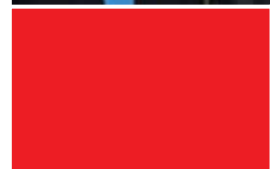
- i) Jack Bell Research Centre - Hosts collaboration GPEC group
- ii) Skin Care Centre
- iii) Arthritis Centre
- iv) Eye Care Centre
- v) The Prostate Centre
- vi) Clinical Microbiology Proficiency Testing Program (CMPT)

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

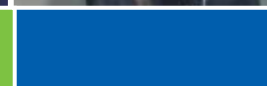
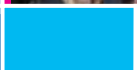
## **E) Child & Family Research Institute (CFRI)**

- 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

# MEDICAL UNDERGRADUATE PATHOLOGY TEACHING

2010 - 2011

	# of Instructors	# of Hours	# of Students
Lectures	46	109	300 (1st + 2 <sup>nd</sup> yr)
CPC- Large Group	8	33	300 (1st + 2 <sup>nd</sup> yr)
CPC – small group	48	380	300 (1st + 2 <sup>nd</sup> yr)
PBL/DPAS	23	1500	
Electives and selectives			

# BACHELOR OF MEDICAL LABORATORY SCIENCE PROGRAM

Number of Students	38
BMLSc program courses	14
Instructors (Faculty, technologists, others)	77
Lecture hours	700
Other types of Instruction - hours	244

# BASIC SCIENCE UNDERGRADUATE COURSES

2010 - 2011

Course	# of credits	# of students
Path 375 –Intro Pathology	3	57
Path 417- Bacterial infections	6	15
Path 417- Bacterial infections <i>may be taken as 3 credits with instructor permission</i>	3	3
Path437/Micb407	3	17
Path 427 - Basic Principles of Infection Control	3	21
Path 451 - Clerkship in Laboratory Medicine and Infection Prevention and Control	3	5
Path 467 - Basic Microbiology for Infection Control	3	23
Path 477 - Basic Epidemiology for Infection Control	3	10
<b>Total</b>	<b>27</b>	<b>251</b>

# GRADUATE STUDIES

2010 - 2011

Program of study	Students
Masters	23
PhD	68
MD/PhD	4
Total	95
# of supervisors	35



# RESIDENCY PROGRAM

As of July 1, 2010

Program	Residents
Anatomic Path/ General Path	22
Medical Biochemistry	3
Medical Microbiology	3
Hematological Pathology	5
Neuropathology	3
PGY – 1	8
Transfusion Medicine	0
<b>Total</b>	<b>44</b>
Clinical Fellows	3



# Special Yearly Event

## Pathology Day 2010

### James Hogg Keynote Lecture:

Dr. Steven Narod, M.D., FRCPC, Canada Research Chair in Breast Cancer, Women's College Research Institute, Dalla Lana School of Public Health

*"Update on Hereditary Breast Cancer: Prevention and Treatment"*

# of oral presentations by residents/trainees and graduates students: 23

# of posters: 52

### The Resident oral presentation award winners:

**1st Place** - Titus Wo

*"Evaluation of real-time PCR tcdC gene detection assay for the diagnosis of Clostridium difficile infection"*

**2nd place** – Arwa Al-Riyami

*"Octaplex usage one year after implementation at a tertiary care hospital"*

**3rd place** - David Schaeffer

*"Absolute increase in endocrine cells in pediatric gastric biopsies following long-term proton pump inhibitor therapy"*

### The Graduate oral presentation award winners:

**1st Place** - Lisa Ang

*"Serpin A3N reduces abdominal aortic aneurysm rupture in mice by inhibition of extracellular granzyme B"*





**2nd place** – Clara Westwell-Roper

*"Macrophage recruitment and TNF-alpha release: a pro-inflammatory role for human islet amyloid polypeptide"*

**3rd place** - Xin Ye

*"microRNA(mir)-126 promotes coxsackievirus B3 replication by enhancing ERK signaling pathway"*

### **Poster presentation award winners:**

**1st Place** - Sophie Stukas

*"The role of brain high density lipoproteins in facilitating beta-amyloid degradation"*

**2nd place** - Maite Verreault

*"Lipid-based formulation of irinotecan (Irinophore C), vincristine and doxorubicin target tumor vasculature in glioblastoma multiforme"*

**3rd place** - Amal El-Naggar and Jessica Kalra

Amal El-Naggar: *"Y box binding protein-1 is a major contributor to sarcoma cells motility and aggressiveness"*

Jessica Kalra: *"Suppression of Her2/neu expression through ILK inhibition is regulated by a pathway involving TWIST and YB-1"*

### **Faculty Recognition Awards:**

Dr. Deborah McFadden:	Most Valuable Player
Dr. James Hogg:	David Hardwick Lifetime Achievement
Dr. John Brunstein:	Award for Excellence in Research and Discovery
Dr. Amanda Bradley:	Award for Excellence in Education
Dr. Catherine Halstead:	Award for Excellence in Service
Ms. Jenny Tai:	Staff Service Award
Mrs. Florida Pelingon:	Staff Service Award





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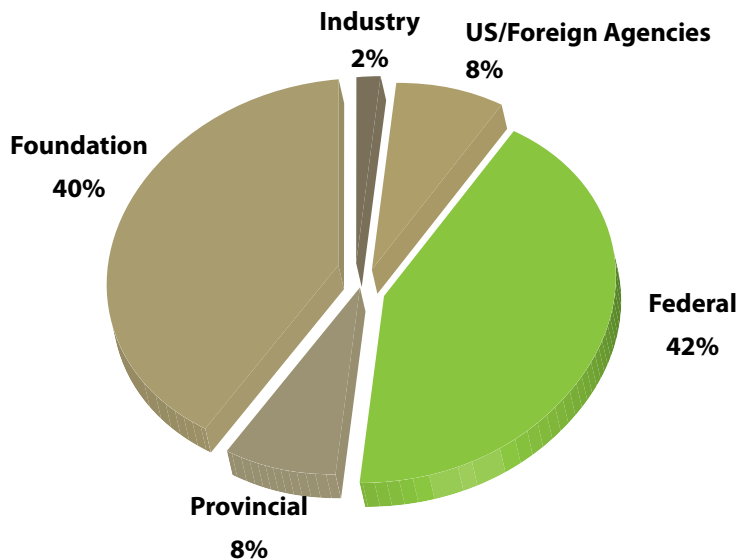
# RESEARCH

# RESEARCH GRANT FUNDING SOURCES

F / Y 2010-2011

## Research Awards Funding Sources (\$)

<b>US /Foreign Agencies</b>	\$1,447,235.26
<b>Federal</b>	\$7,876,424.18
<b>Provincial</b>	\$1,524,091.43
<b>Foundation</b>	\$7,442,815.54
<b>Industry</b>	\$307,159.48
<b>Total</b>	<b>\$18,597,725.89</b>

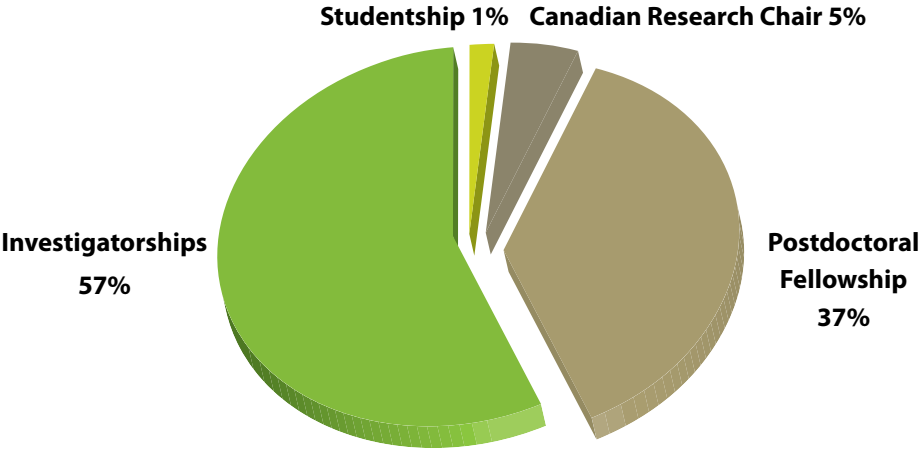


# PERSONNEL AWARDS

F / Y 2010-2011

Personnel Awards (\$)	
Canadian Research Chair	\$100,000.00
Postdoctoral Fellowships	\$755,953.81
Investigatorships	\$1,135,646.00
Studentship ( Allowance portion)	\$28,957.67
Total	\$2,020,557.48

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# PUBLICATIONS

2010-2011

Published Work	
Refereed/Non-refereed Publications	<b>457</b>
Conference Proceedings/ Abstracts	<b>225</b>
<b>Books</b>	<b>23</b>
authored	<b>1</b>
chapters	<b>33</b>

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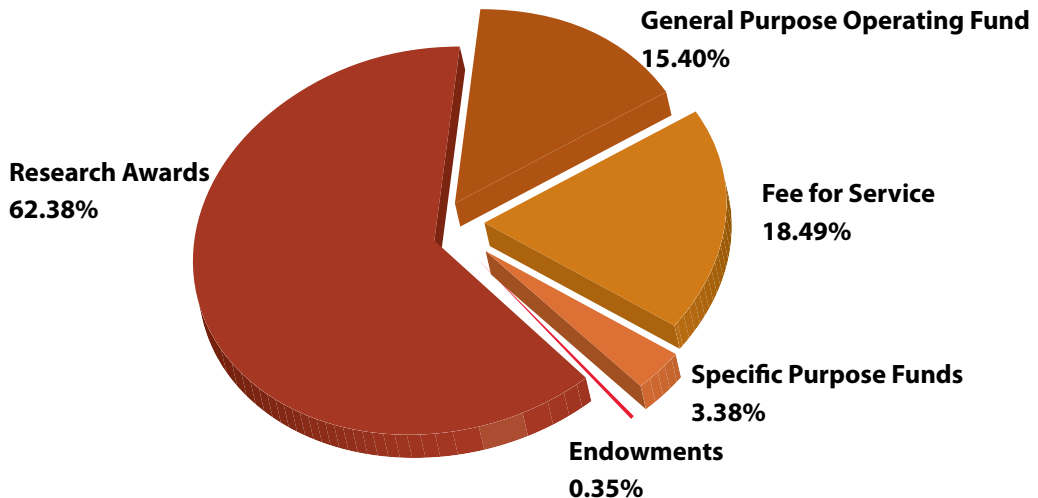
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# REVENUES & BUDGET

# DEPARTMENT FUNDS

F / Y 2010-2011

Funds (\$)	
<b>General Purpose Operating Fund</b>	\$4,591,203.00
<b>Fee for Service</b>	\$5,512,794.07
<b>Specific Purpose Funds</b>	\$1,006,428.42
<b>Endowments</b>	\$105,105.53
<b>Research Awards</b>	\$18,597,725.89
<b>Total</b>	<b>\$29,813,256.91</b>





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