

The
**DEAN'S
REPORT**

SCHULICH SCHOOL OF MEDICINE & DENTISTRY
ANNUAL PERFORMANCE REVIEW | 2017



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A MESSAGE FROM DR. MICHAEL J. STRONG



Change is constant, and we, at the Schulich School of Medicine & Dentistry, continue to embrace it. 2017 was no exception, as it brought with it great change and learning for faculty, staff and learners at the School.

Along with our medical school colleagues across the country, the School began the transition to Competency Based Medical Education (CBME) with our postgraduate medical education (PGME) programs. Our PGME team embraced this change, as two programs made the shift and several others began planning for its implementation in their programs.

Our research teams continue to achieve great success and we were proud to celebrate significant investments, including \$2.7 million from the Canada Brain Research Fund; \$3 million in Foundation grants from the Canadian Institutes of Health Research, and \$10 million from the Canada Foundation for Innovation. In total the School's research revenue of \$153.5 million reflects year-after-year growth in advancing our work in mental health, imaging, infectious diseases, and neuroscience, to name a few.

Meanwhile, our own investment in research continues at a rapid pace. The past year concluded what has been the most aggressive period of recruitment of researchers in the history of our School. This recruitment has touched every aspect of how we deliver our core mandate of becoming a national and international leader.

One of the most recent recruits to the School, Dr. Lisa Saksida, PhD, was named the Tier 1 Canada Research Chair (CRC) in Translational Cognitive Neuroscience. Dr. Saksida

joins the other CRCs at the School in advancing biomedical research across the continuum of diseases.

Construction was completed on Canada's only level 2/3 viral research facility – the Imaging Pathogens for Knowledge Translation Facility (ImPaKt). At the heart of the University campus, this multi-million dollar research facility will house one of only three North American leading virology research centres with a focus on HIV/AIDS – at a time when the rates of HIV/AIDS are climbing once again.

Our pride grows daily as we celebrate the achievements of our faculty, staff, learners and alumni who are recognized and awarded local, national and international honours. Of special note this past year, was the announcement that Dr. Vladimir Hachinski will be inducted into the Canadian Medical Hall of Fame. Dr. Hachinski is a world-renowned neurologist who has transformed the understanding, diagnosis, treatment and prevention of the two greatest threats to the brain, stroke and dementia.

This year, our School began the long journey to develop greater understanding amongst our faculty, staff and learners about the history of Indigenous people in Canada. Through education sessions and engagement of our First Nations neighbours, we are preparing our School to meet the calls to action outlined in the Truth and Reconciliation Report, and develop sustainable curricula which will help to abolish health inequities in Canada.

Leading all of this work at the School is a dynamic new team of decanal, department and program leadership. Together they are embracing the future of education and research as we work toward our vision to become a global leader in optimizing lifelong health.

It was an extraordinary year of achievement and we are proud to share this report with you to provide more details of all the accomplishments of our faculty, staff and learners.

A handwritten signature in black ink, appearing to read 'Michael J. Strong'.

Michael J. Strong, MD, FRCP(C), FAAN, FCAHS
Dean, Schulich School of Medicine & Dentistry
Distinguished University Professor, Western University

2017 AT A GLANCE

- > Researchers at the Schulich School of Medicine & Dentistry, Western University, shared in \$13.8 million in funding from the Canada Foundation for Innovation. These world-class research and technology development activities are in areas of strategic institutional priority and are transformative infrastructure projects that will underscore cutting-edge, globally competitive research. The recipients include: Dr. Eric Arts - *Infectious Disease Pathogenesis Facility for the Study of Emerging and Re-emerging Infectious Diseases*; Dr. Terry Peters - *Minimally-invasive Surgery and Therapy*; Dr. Geoffrey Pickering - *Facility for Microcirculatory Imaging and Tissue Analytics*; and Dr. Mel Goodale - *New Horizons in Human Cognitive Neuroscience Research*. Additionally, two Canadian Institutes for Health Research grants totaling \$3 million were received by Dr. Aaron Fenster - *Develop Mechatronic Robotic Systems to Guide Minimally Invasive Interventions for Gynecologic and Liver Cancers* and Dr. Lena Palaniyappan - *The Brain Mechanism that Leads to Treatment Failure in Schizophrenia*.
- > Dr. Sarah Svenningsen is among the first in Canada to approach medical imaging technology as a potential treatment tool for asthma. Early on, her research indicated MRI technology could be used to deliver targeted, more effective treatment for those affected by asthma, considerably benefiting both patients and health care providers. For this pioneering research, Dr. Svenningsen, who completed her PhD in 2017, and is a postdoctoral fellow, received the prestigious John Charles Polanyi Prize, announced by the Council of Ontario Universities. Named after John Charles Polanyi, recipient of the 1986 Nobel Prize in Chemistry, the prize annually recognizes five outstanding researchers in early stages of their career who are continuing to postdoctoral studies or have recently started a faculty appointment at an Ontario university.
- > The Doctor of Medicine Program began its curriculum renewal process moving toward a competency-based medical education framework. Through the work of several task forces and renewal committees, a vision for a new curriculum has been developed and the program has moved to the beginning stage of curriculum design.
- > As part of the School's commitment to achieve the Truth and Reconciliation Commission calls to action, a special learning session was held for Schulich Medicine students. Called "**Tyo ko Tak naht' yu kwa nute', Let's Move What We Know Forward**", the event featured a keynote presentation by Mr. Ry Moran, Director of the National Centre for Truth and Reconciliation, University of Manitoba, as well as a Blanket Exercise. The event was also videoconferenced to Windsor Campus students, and the Blanket Exercise was conducted in Windsor with help from community organizations.
- > Continuing Professional Development received the official results of its 2016 CACME limited site survey with the Committee voting to continue full accreditation for the balance of the current five-year term and requested that the next full site visit be carried out in the 2019-2020 academic year.
- > Construction was completed on Canada's only level 2/3 viral research facility – the Imaging Pathogens for Knowledge Translation Facility (ImPaKt). At the heart of the University campus, this multi-million dollar research facility will house one of only three North American leading virology research centres with a focus on HIV/AIDS – at a time when the rates of HIV/AIDS are climbing once again.



EDUCATION



PROGRAM OFFERINGS

The Schulich School of Medicine & Dentistry offers a range of degree and combined degree programs for undergraduate, graduate and postgraduate learners.

Undergraduate Programs

Bachelor of Medical Sciences (BMSc)
Bachelor of Science (BSc) - Neuroscience

Graduate Studies and Postdoctoral Affairs

18 Graduate programs, including MSc, MCISc and PhD programs in basic and clinical sciences

Postgraduate and Clinical Graduate Programs

Medicine (PGME)
Oral and Maxillofacial Surgery
General Practice Residency, Dentistry
Graduate Orthodontics

Professional Programs

Doctor of Medicine (MD)
Doctor of Dental Surgery (DDS)
Master of Public Health (MPH)
Internationally Trained Dentists (ITD)
Pathologists' Assistant Program

Combined Degree Programs

Dental Clinician Scientist
MD/PhD
BMSc/HBA (Business Administration)
PhD in Medical Biophysics/CAMPEP

Professional Development

Continuing Medical Education
Continuing Dental Education
Faculty Development
Staff Development

EDUCATION HIGHLIGHTS

DOCTOR OF MEDICINE PROGRAM AND POSTGRADUATE MEDICAL EDUCATION

- The Doctor of Medicine Program began its curriculum renewal process moving toward a competency-based medical education framework. Through the work of several task forces and renewal committees a vision for a new curriculum has been developed and the program has moved to the beginning stage of curriculum design.
- Following the submission of Status Report to the Committee on Accreditation of Canadian Medical Schools (CACMS), in December 2016, five standards identified in April 2015, as 'non-compliant' or 'compliance with monitoring' were revised to 'satisfactory' or 'satisfactory with a need for monitoring.'
- The second annual Interprofessional Education Day took place at the London and Windsor campuses. At the Windsor-based event, first year Schulich Medicine students were joined by nursing, social work and human kinetics students from the University of Windsor and respiratory therapy from St. Clair College, to collaboratively hone their knowledge base and skill set using a framework of case studies. Meanwhile in London, students were joined by their peers from Schulich Dentistry, as well as pharmacy and optometry students from the University of Waterloo.
- As part of the School's commitment to achieve the Truth and Reconciliation Commission calls to action, a special learning session was held for Schulich Medicine students. Called "**Tyo ko Tak naht' yu kwa nute', Let's Move What We Know Forward**", the event featured a keynote presentation by Mr. Ry Moran, Director of the National Centre for Truth and Reconciliation, University of Manitoba, as well as a Blanket Exercise. The event was also videoconferenced to Windsor Campus students, and the Blanket Exercise was conducted in Windsor with help from community organizations.
- Two postgraduate programs readied their teams for the launch of competency-based medical education (CBME), and the first wave of program transition took place in July 2017. As more programs will be launching in the coming years, a dedicated team has been formed to begin working on transitioning programs.
- Postgraduate medical education conducted internal reviews with 21 different programs in preparation for the 2019 accreditation.

CONTINUING PROFESSIONAL DEVELOPMENT

- Continuing Professional Development received the official results of its 2016 CACME limited site survey, with the Committee voting to continue full accreditation for the balance of the current five-year term and requested that the next full site visit be carried out in the 2019-2020 academic year.

DOCTOR OF DENTAL SURGERY

- Phase one of digital imaging and new imaging equipment supporting Graduate Orthodontics was completed, and progress is underway to implement a new clinic management system. Meanwhile, phase two for digital imaging in dentistry and electronic patient records will be complete by fall 2018.
- Schulich Dentistry submitted its first funding application for the Ontario Research Fund. Members of this application include: Dr. Walter Siqueira, as the principal investigator, along with Drs. Aaron Price, Amin Rizkalla, Sahza Kofman, Jeffrey Dixon, Henry Lapointe, Jun Yang, Gildo Santos, Ali Tassi, and Andrew Leask, PhD.
- Schulich Dentistry supported more than 23,050 patient visits in the adult and paediatric clinics from September 2016 to June 2017.

GRADUATE STUDIES AND POSTDOCTORAL AFFAIRS

➤ Dr. Sarah Svenningsen is among the first in Canada to approach medical imaging technology as a potential treatment tool for asthma. Early on, her research indicated MRI technology could be used to deliver targeted, more effective treatment for those affected by asthma, considerably benefiting both patients and health care providers. For this pioneering research, Dr. Svenningsen, who completed her PhD in 2017, and is a postdoctoral fellow, received the prestigious John Charles Polanyi Prize, announced by the Council of Ontario Universities. Named after John Charles Polanyi, recipient of the 1986 Nobel Prize in Chemistry, the prize annually recognizes five outstanding researchers in early stages of their career who are continuing to postdoctoral studies or have recently started a faculty appointment at an Ontario university.

BACHELOR OF MEDICAL SCIENCES

➤ Degrees were conferred upon the first graduates with a Bachelor of Medical Sciences Honors Specialization in Medical Health Informatics and the Bachelor of Medical Sciences Honors Specialization in Epidemiology and Biostatistics. Graduates in these programs have gone on to Medical School and graduate programs at the Schulich School of Medicine & Dentistry.

➤ The Bachelor of Medical Sciences Program remains the destination of choice by students applying to Western University. The 92 per cent admission average to Medical Sciences in May 2017 was the highest for any first-entry program at Western. In addition, approximately 30 per cent of offers to Medical Sciences are accepted, which is 10-12 per cent higher than the average conversion rate across campus.

➤ Articulation agreements were finalized with three universities in China. Following the completion of three years of undergraduate study at their home universities, nominated students from Nanjing Medical University, Dalian Medical University and Soochow University will be considered for admission to the third year of the Bachelor of Medical Sciences program, and upon completion, the students will be eligible for entry into an Accelerated Master of Science program.

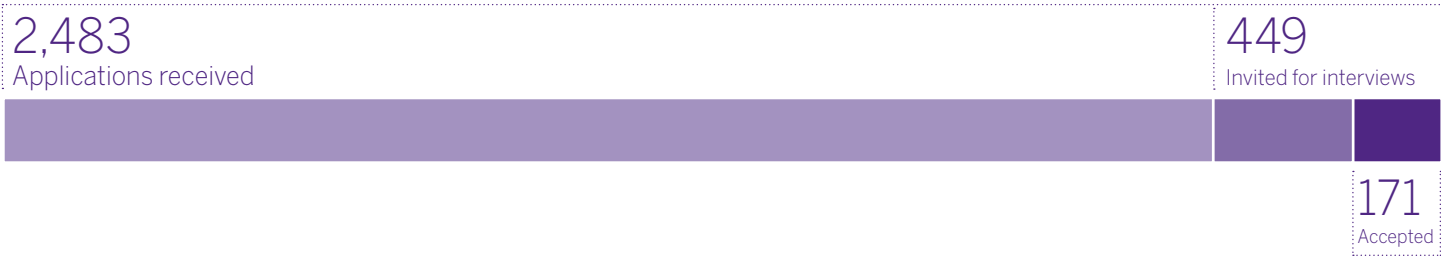
CURRENT SCHOOL ENROLMENT

- 698 Doctor of Medicine (MD) Program students, including 150 at the Windsor Campus
- 263 Doctor of Dental Surgery (DDS) Program students
- 983 students in Year 3 and 4 of the Bachelor of Medical Sciences Program, 21 of whom are in the combined BMSc/HBA degree
- 85 Undergraduate Program in Neuroscience (BSc) students
- 948 postgraduate medical trainees (residents and fellows)
- 4 hospital-based postgraduate dental residents
- 785 graduate students working toward MSc or PhD degrees
- 106 postdoctoral fellows
- 9 students training in specialized postgraduate dentistry programs
- 6 graduate students training in Oral and Maxillofacial Surgery Program
- 40 students in the Internationally Trained Dentists (ITD) Program
- 60 students working toward a Master's Degree in Public Health (12-month course based)

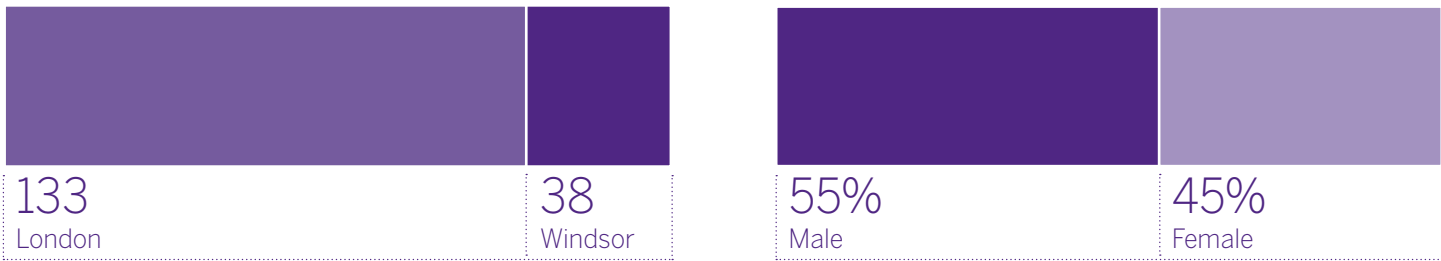
EDUCATION NUMBERS

UNDERGRADUATE MEDICAL EDUCATION 2017 PROFILE:

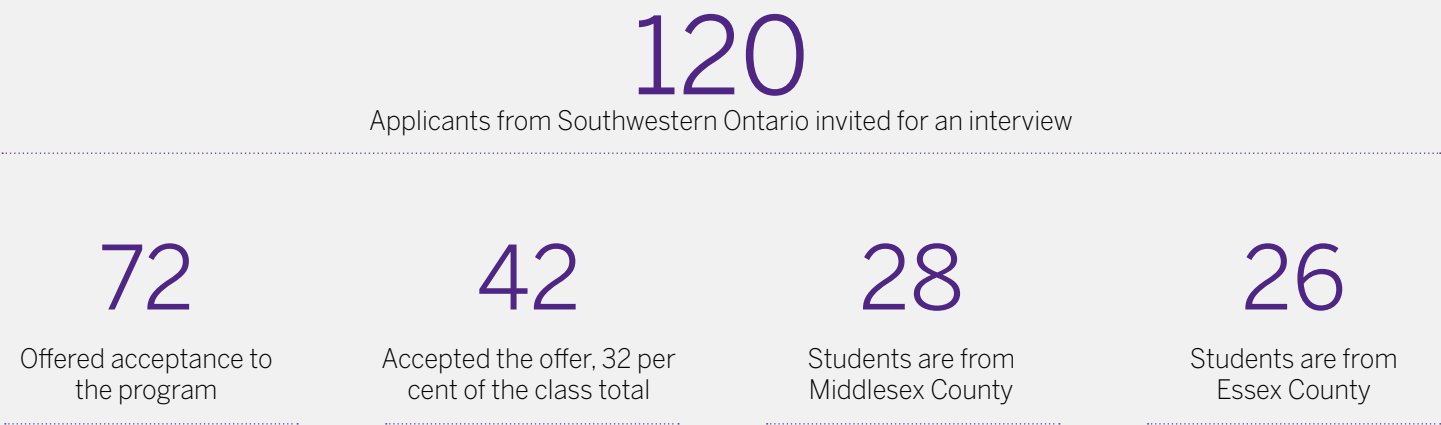
Medicine Class of 2021 profile



Demographics of the 171 students accepted

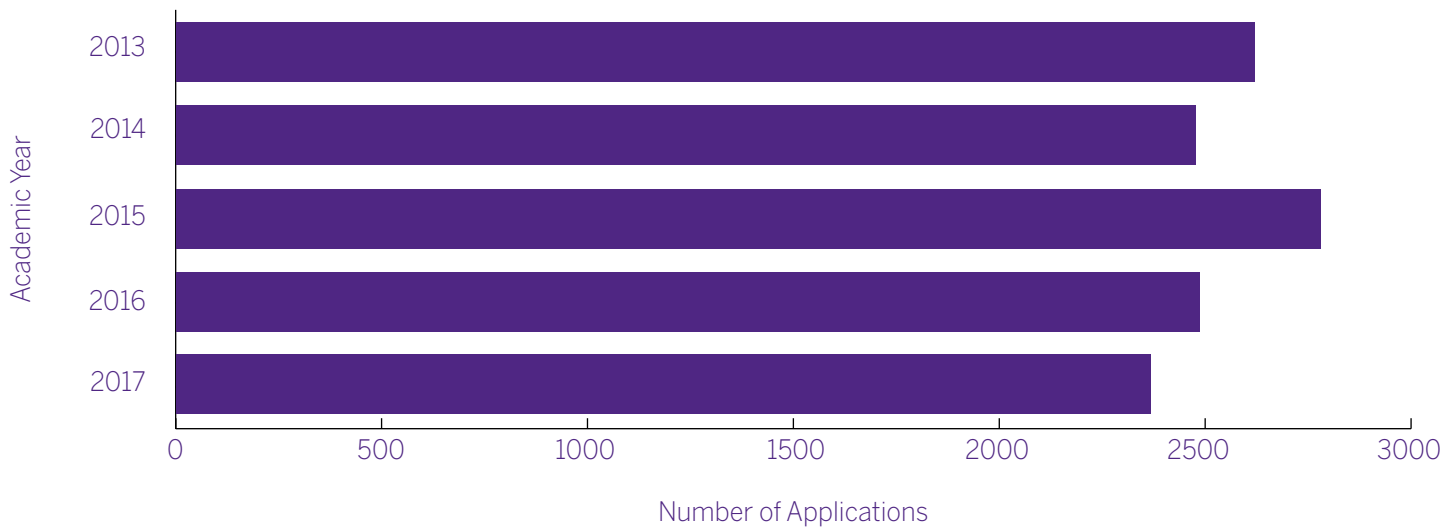


Demographics of applicants from Southwestern Ontario



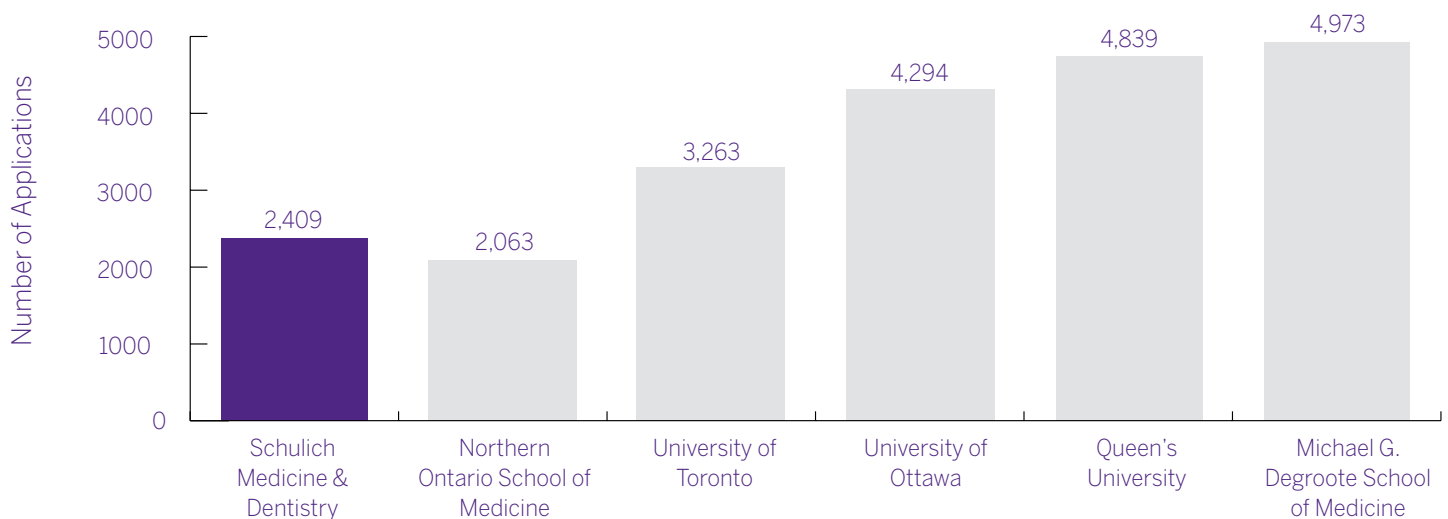
Schulich Medicine applications 2013-2017

Note: Year reflects applications for September entry of subsequent year. In 2017, 2,409 people applied for September 2018 entry



Ontario Medical School applications received by institutions for September 2017 entry

Note: Schulich Medicine & Dentistry is the only medical school in Ontario that posts required entry grades and MCAT scores for the application year. The University of Ottawa and Northern Ontario School of Medicine do not consider MCAT scores in admissions.



POSTGRADUATE MEDICAL EDUCATION 2017 PROFILE:

Total enrolment for 2016-2017

948

Trainees

Postgraduate Year 1 (PGY-1) CaRMS entry positions
for July 2017

182

(With all positions filled)

Increase in Internationally Sponsored Trainees

2.35%

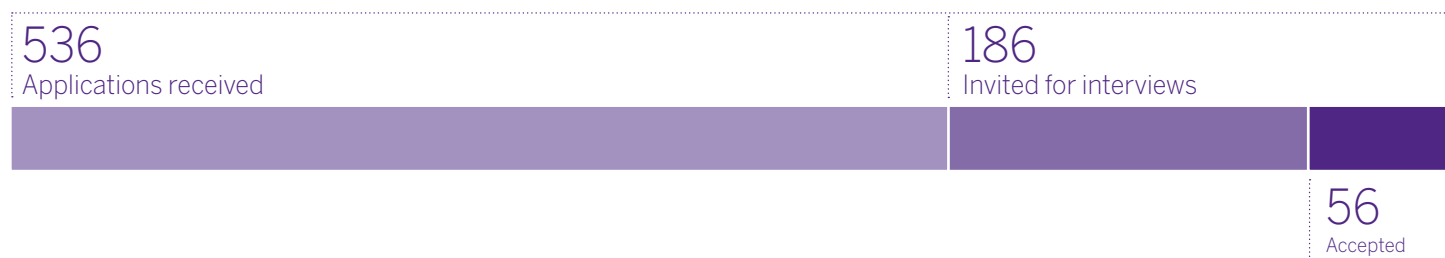
From 2015-2016 to 2016-2017

DISTRIBUTED EDUCATION LEARNERS AND TRAINING MONTHS:

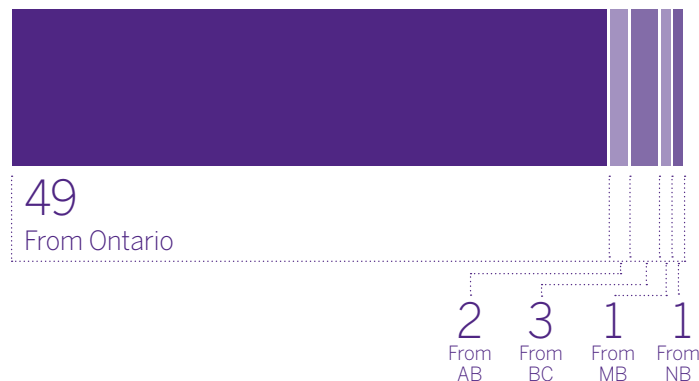
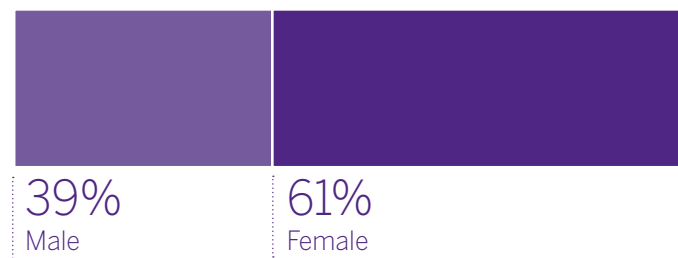
Programs	Number of Learners	Number of Training Months
Postgraduate Training	335	660
Clerkship Training	155	555
Undergraduate Elective Training	49	32
Total	539	1,247

DOCTOR OF DENTAL SURGERY 2017 PROFILE:

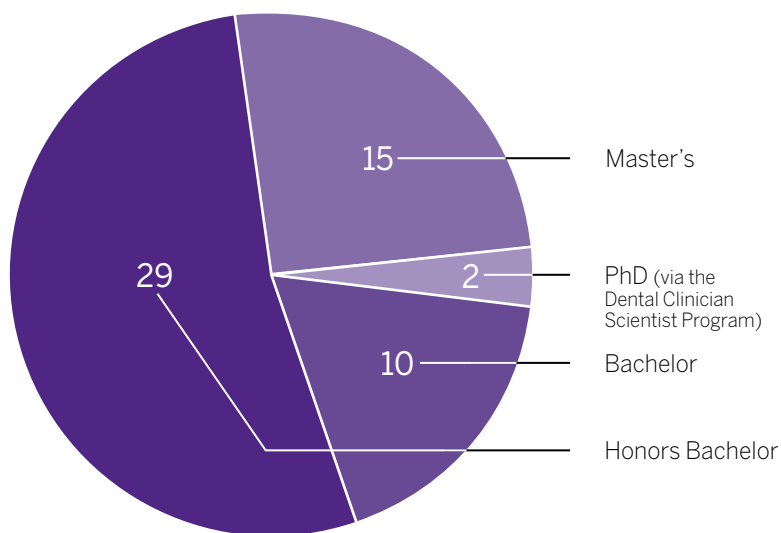
Dentistry Class of 2021 profile



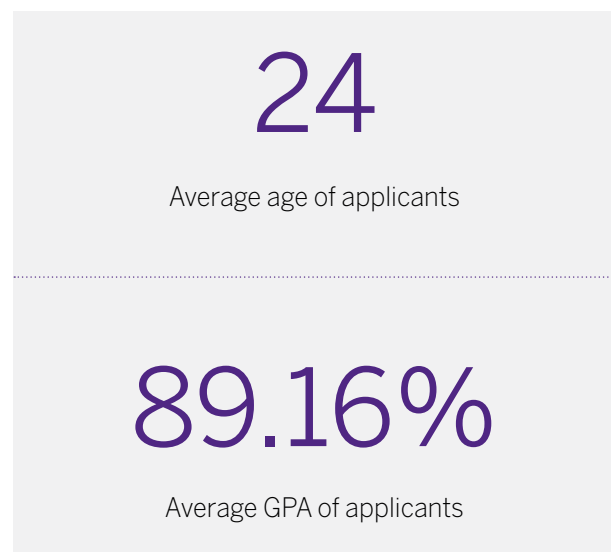
Demographics of the 56 students accepted



Applicant degrees

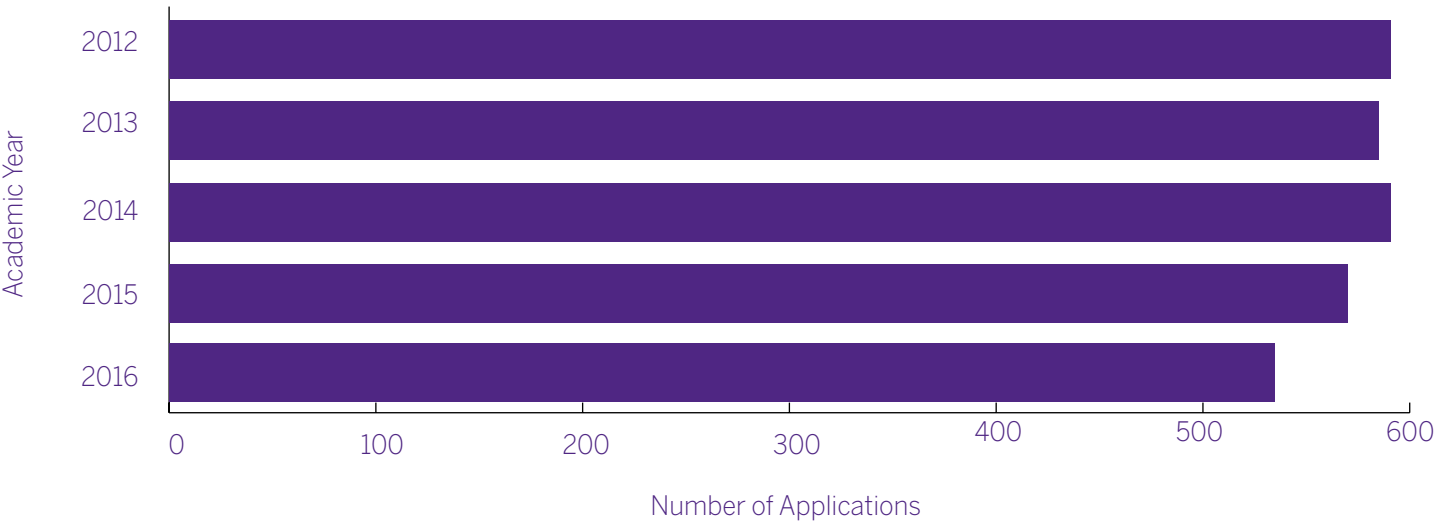


Additional applicant information





Schulich Dentistry applications 2013-2017



Internationally Trained Dentists enrolment 2013-2017

	ITD 1	ITD 2	Total
2013-2014	22	20	42
2014-2015	20	22	42
2015-2016	20	20	40
2016-2017	20	20	40
2017-2018	20	19	39

BACHELOR OF MEDICAL SCIENCES 2017 PROFILE:

Bachelor of Medical Sciences total enrolment 2013-2017

	Year 3	Year 4	Total
2013-2014	444	405	849
2014-2015	439	446	885
2015-2016	421	426	847
2016-2017	471	451	922
2017-2018	467	514	981

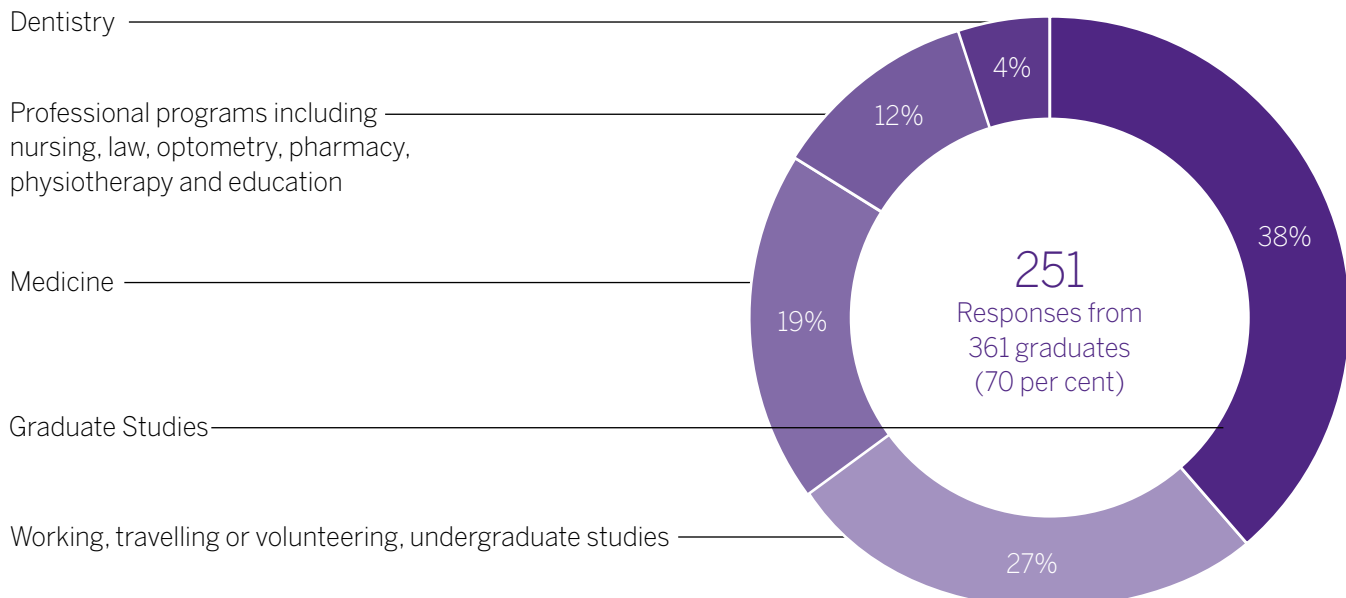
Medical Sciences First Entry boasted the highest admission average for all programs offered at Western University. The mean entering average for students admitted to Year 1 Medical Sciences in 2017-2018 was 93.7 per cent.

Undergraduate Neuroscience total enrolment 2013-2017

	Year 2	Year 3	Year 4
2013-2014	29	17	-
2014-2015	29	26	13
2015-2016	30	22	23
2016-2017	30	28	21
2017-2018	30	28	30

The Honors Specialization in Neurosciences leads to a Bachelor of Science Honors degree. Admission begins in Year 2, with the majority of students coming from Year 1 Medical Sciences. The admission average for 2017-2018 was 83 per cent.

Bachelor of Medical Sciences 2017 career survey



GRADUATE STUDIES AND POSTDOCTORAL AFFAIRS 2017 PROFILE:

Graduate Studies and Postdoctoral Affairs enrolment

761

Trainees total

651

MSc and PhD candidates

109

Postdoctoral Fellows

Basic Sciences

409

Total MSc enrolment

242

Total PhD enrolment

Orthodontics

9

Total MCID enrolment

Neuroscience

60

Total MSc enrolment

37

Total PhD enrolment

MASTER OF PUBLIC HEALTH 2017 PROFILE:

55

students enrolled in the Class of 2017

90%

of graduates from the Class of 2016 are employed or
pursuing more education

51%

of graduates from the Class of 2017 are employed or
pursuing more education four months post graduation



FINANCIAL ACCESSIBILITY



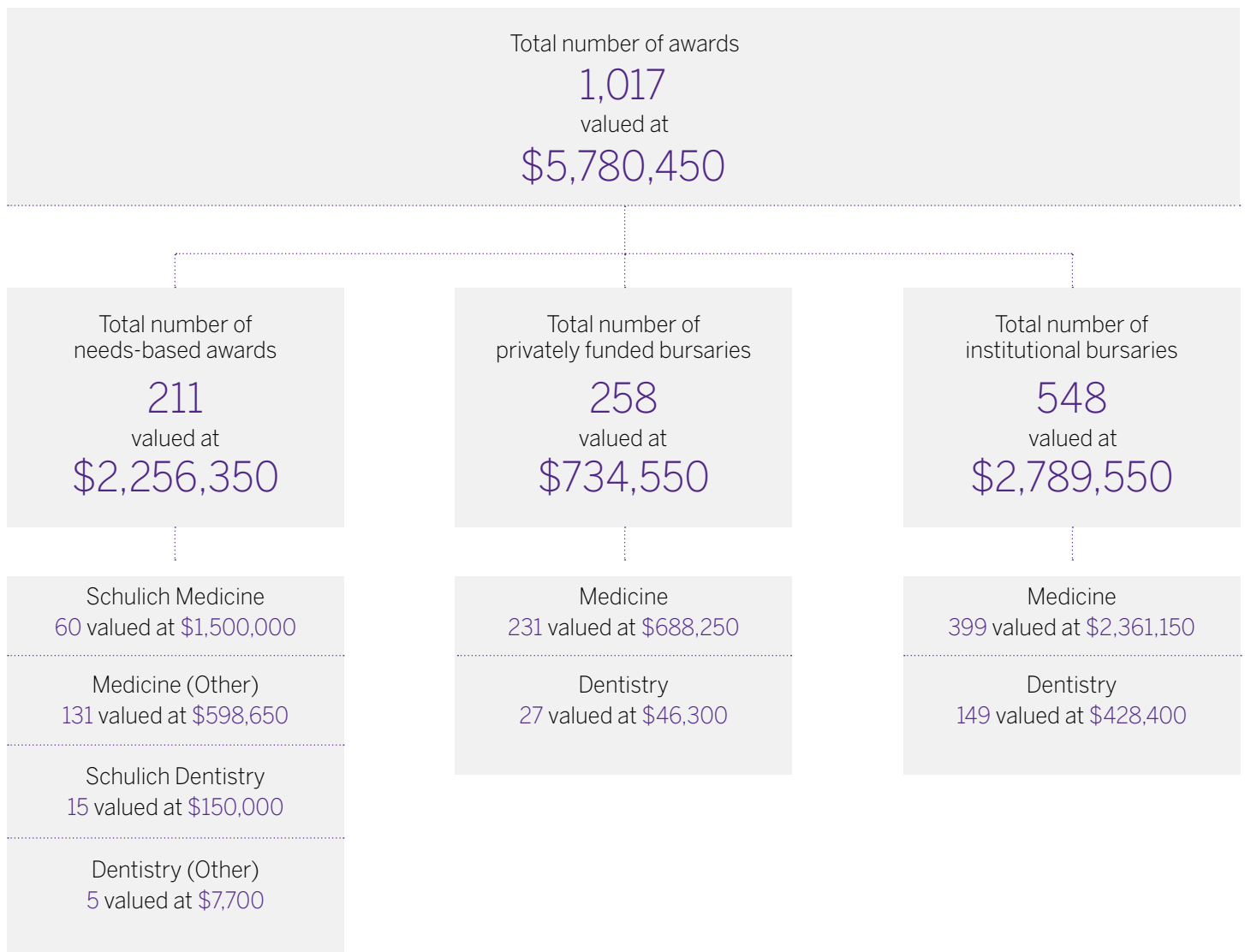
Monetary breakdown of yearly scholarships supported by Mr. Seymour Schulich

<p>Medicine</p> <p>60</p> <p>annual recipients</p> <p>\$25,000</p> <p>value per year, per student</p> <p>\$100,000</p> <p>total value per student over length of program</p> <p>\$1,500,000</p> <p>total annual value of the scholarship</p>	<p>Dentistry</p> <p>15</p> <p>annual recipients</p> <p>\$10,000</p> <p>value per year, per student</p> <p>\$40,000</p> <p>total value per student over length of program</p> <p>\$150,000</p> <p>total annual value of the scholarship</p>	<p>Graduate Studies Basic Medical Sciences</p> <p>60+</p> <p>annual recipients</p> <p>\$15,000</p> <p>(\$5,000 Schulich Scholarships, \$10,000 OGS/QEII)*</p> <p>-</p> <p>total value per student depends on program length</p> <p>\$2,050,624.34</p> <p>total annual value of the scholarship</p>
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Grants and award funding for graduate students 2017

Type of Scholarship	Basic Medical Sciences	Neuroscience	Total funds
Western Graduate Research Scholarships	\$2,050,624.34	\$601,730.98	\$2,652,355.32
Ontario Graduate Scholarships	\$970,944.03	\$114,044.03	\$1,084,988.06
Canadian Institutes of Health Research	\$407,500.22	\$17,500.02	\$425,000.24
Natural Sciences and Engineering Research Council	\$709,333.58	\$219,333.43	\$928,667.01
Social Sciences and Humanities Research Council	\$40,000.02	-	\$40,000.02
Vanier Canada Graduate Scholarship	\$50,000.01	-	\$50,000.01
Ontario Trillium	\$80,000.04	\$26,666.68	\$106,666.72
Other	\$888,389.17	\$115,533.37	\$775,185.92
Total	\$4,968,054.79	\$1,094,808.51	\$ 6,062,863.30

Financial Assistance breakdown for Medicine and Dentistry students



OPERATIONS & ADMINISTRATION





FACILITIES

This past year, a number of construction and redevelopment projects took place across the School.

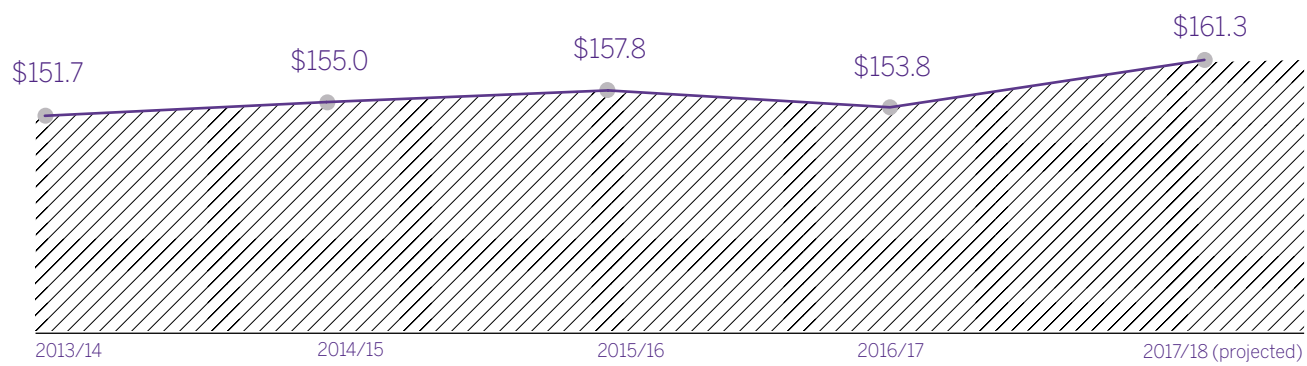
- A major renovation of the fifth floor of the Dental Sciences Building was undertaken to create the Translational Cognitive Neuroscience Laboratory under the leadership of Drs. Tim Bussey and Lisa Saksida. The goal of their research is to understand learning, memory, as well as other areas of cognition. They are researching what goes wrong in conditions like Alzheimer's disease or schizophrenia, and possible targets for therapy, using several different converging methods of enquiry.
- A new research laboratory was constructed for use by the Department of Pathology and Laboratory Medicine in the Dental Sciences Building. This lab is now housing a member of the Department investigating protein mis-folding, aging, and cellular quality control in human diseases, focusing on age-related neurodegenerative diseases, such as Parkinson's disease, Huntington's disease, and Amyotrophic Lateral Sclerosis.
- Construction was completed on Canada's only level 2/3 viral research facility – the Imaging Pathogens for Knowledge Translation facility (ImPaKt). At the heart of the University campus, this multi-million dollar research facility will house one of only three North American leading virology research centres with a focus on HIV/AIDS – at a time when the rates of HIV/AIDS are climbing once again.

Western University	2017 Net Square Footage
Dental Sciences Building	116,695
Dr. Don Rix Clinical Skills Learning Building	14,263
Health Sciences Addition	37,128
Kresge Building	6,958
Medical Sciences Building	91,803
Molecular Biology Laboratory	11,208
Natural Sciences Centre	2,223
Robarts Research Institute	109,885
Siebens Drake Research Institute	43,234
Western Centre for Public Health and Family Medicine	30,000
Total	463,397

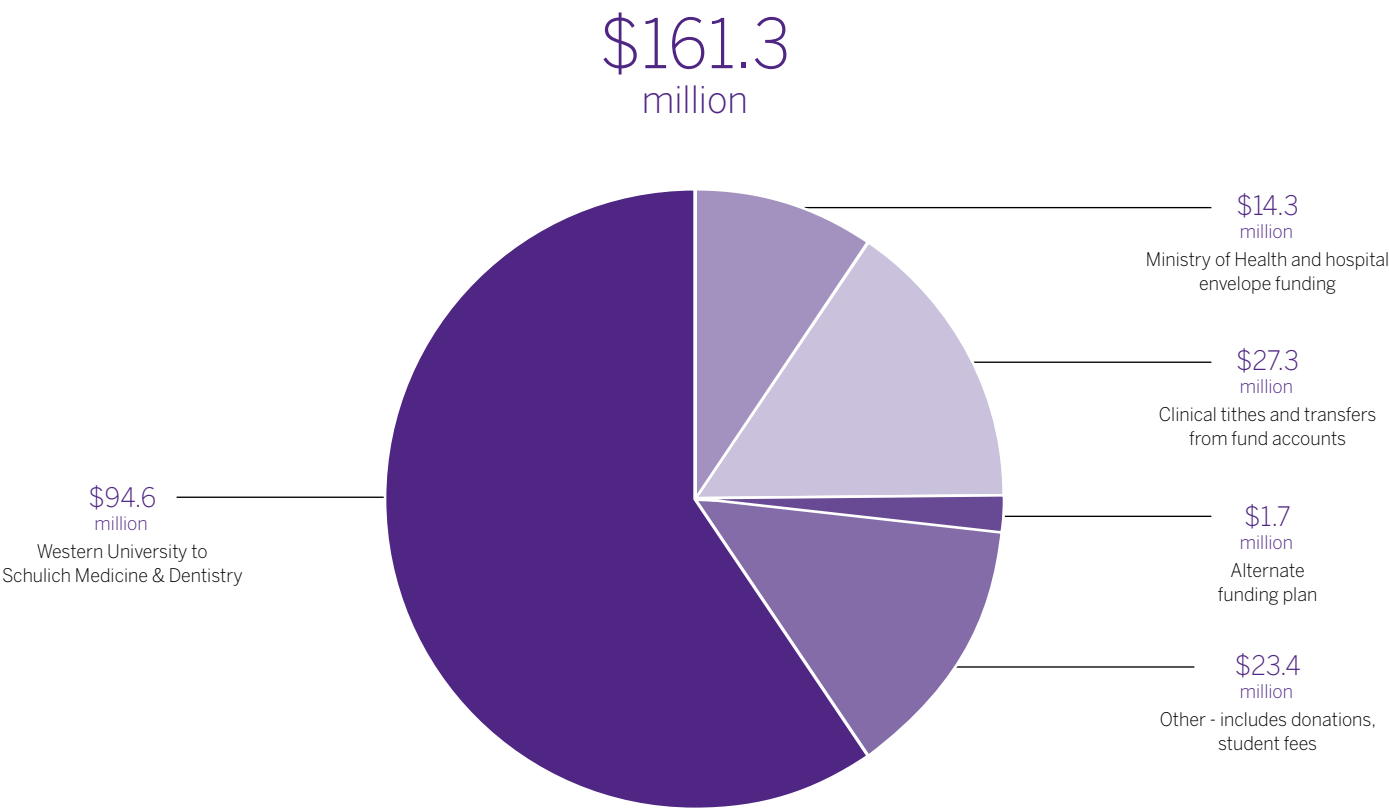
University of Windsor	2017 Square Footage
Dr. Murray O'Neil Medical Education Centre	62,100
Total	62,100

FINANCE

Total operating revenue (in millions) 2013 - 2017

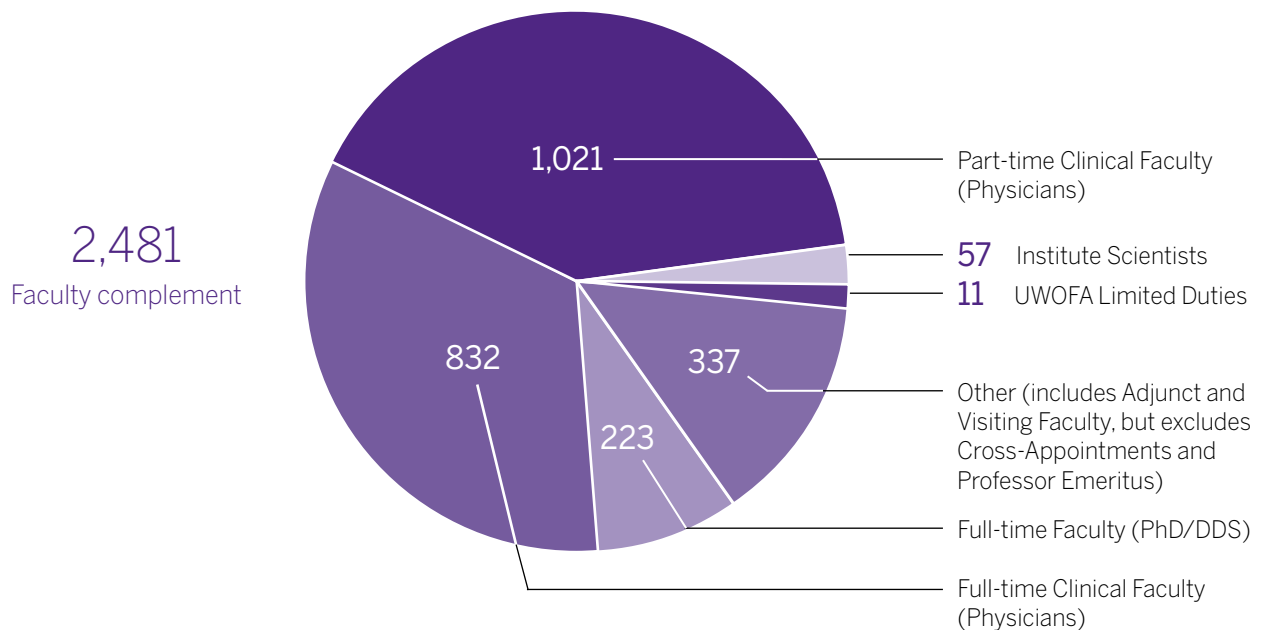
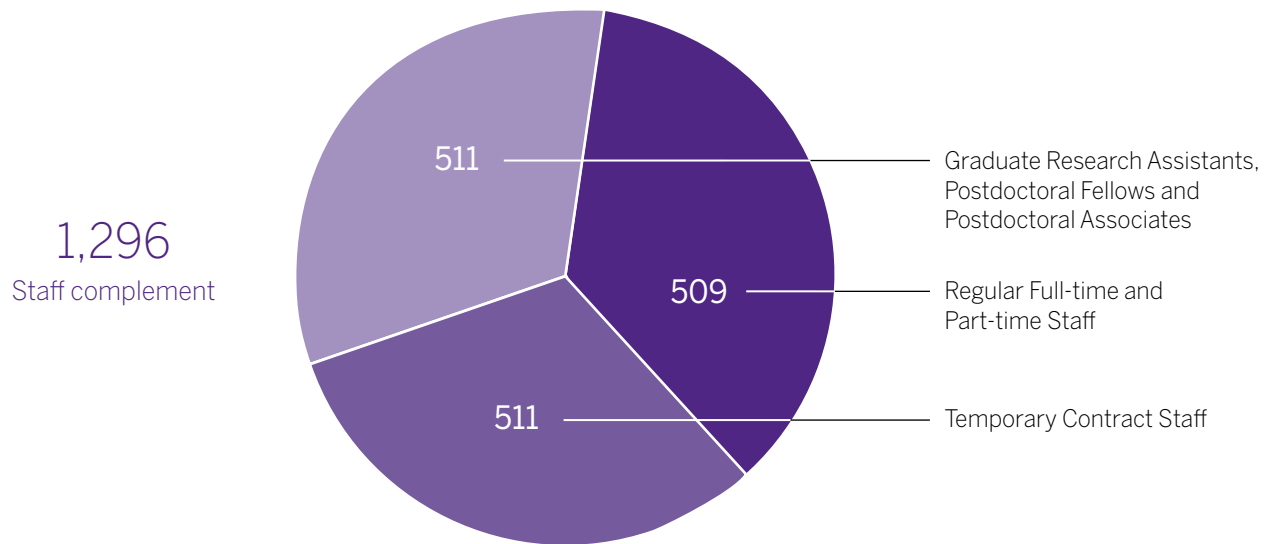


Total operating revenue 2017 - 2018



HUMAN RESOURCES

Faculty and Staff complements 2017



Leadership appointments and extensions 2017

Decanal Appointments	Appointment Duration
Dr. Davy Cheng, Vice Dean, Faculty Affairs	July 1, 2017 – June 30, 2023
Dr. David Litchfield, Vice Dean, Research & Innovation	July 1, 2017 – June 30, 2023
Dr. Jay Rosenfield, Vice Dean, Medical Education	September 1, 2017 – August 31, 2023
Dr. Tisha Joy, Associate Dean, Admissions	September 1, 2017 – August 31, 2022
Dr. Jane Rylett, Associate Dean and Director, Animal Research Facilities	August 1, 2017 – June 30, 2022
Dr. Valerie Schulz, Associate Dean, Continuing Professional Development	October 1, 2017 – September 30, 2022
Dr. Richard Cherry, Associate Dean, Learning with Technology and Simulation	October 1, 2017 – September 30, 2022
Decanal Re-appointments	Appointment Duration
Dr. Mithu Sen, Assistant Dean, Faculty Equity & Wellness	March 1, 2017 – February 28, 2020
Dr. Donald Farquhar, Assistant Dean, Postgraduate Wellness	July 1, 2017 – June 30, 2022
Dr. Larry Jacobs, Assistant Dean, Windsor Faculty Affairs	January 1, 2018 – December 31, 2019
Decanal Extensions	Appointment Duration
Dr. Bertha Garcia, Vice Dean, Medical Education	July 1, 2017 – August 31, 2017
Dr. Robert Hammond, Associate Dean, Admissions	July 1, 2017 – August 31, 2017

Acting Chair Appointments	Appointment Duration
Dr. David Edgell, Department of Biochemistry	July 1, 2017 – June 30, 2018
Dr. Alison Allan, Department of Anatomy and Cell Biology	February 1, 2017 – January 31, 2018
Dr. Frank Beier, Department of Physiology & Pharmacology	August 1, 2017 – July 31, 2018
Chair/Chief Appointments	Appointment Duration
Dr. Michael Rieder, Department of Pediatrics	August 1, 2017 – July 31, 2022
Dr. Kevin Fung, Department of Otolaryngology - Head and Neck Surgery	July 1, 2017 – June 30, 2022
Dr. Narinder Paul, Department of Medical Imaging	July 1, 2017 – June 30, 2022
Chair/Chief Interim Appointments	Appointment Duration
Dr. Ramiro Arellano, Department of Anesthesia & Perioperative Medicine	July 1, 2017 – December 31, 2017
Dr. Jeffery Reiss, Department of Psychiatry	January 1, 2017 – December 31, 2017
Chair/Chief Re-appointments	Appointment Duration
Dr. Timothy Doherty, Department of Physical Medicine & Rehabilitation	February 1, 2017 – January 31, 2022
Dr. Jim Calvin, Department of Medicine	November 1, 2017 – October 31, 2022
Dr. Jeffery Reiss, Department of Psychiatry	January 1, 2017 – December 31, 2017
Chair/Chief Extensions	Appointment Duration
Dr. Maggie Rebel, Department of Obstetrics & Gynaecology	February 1, 2017 – January 31, 2018
Dr. Paul Cooper, Department of Clinical Neurological Sciences	October 1, 2017 – September 30, 2018

Current Endowed Chairs	Incumbent
Canadian Diabetes Association Chair in Diabetes Management	Dr. Stewart Harris
Cecil and Linda Rorabeck Chair in Molecular Neuroscience and Vascular Biology	Dr. Donald Welsh
Col J.B. McLean (Fallon) Memorial Chair in Clinical Preventive Medicine	Dr. Saverio Stranges
Dr. Adam Linton Chair in Kidney Health Analytics	Dr. Amit Garg
Dr. Joseph Rea Chair in Mood Disorders	Dr. Elizabeth Osuch
Dr. John W.D. and Susan McDonald Chair in Inflammatory Bowel Disease	Dr. Vipul Jairath
Dr. Robert Lindsay Chair in Dialysis, Research and Innovation	Dr. Chris McIntyre
Dr. Sandy Kirkley Chair in Musculoskeletal Research	Dr. David Holdsworth
Earl Russell Chair in Pain Management	Dr. Dwight Moulin
Edith Schulich Vinet Chair in Human Genetics	Dr. Robert Hegele
Graham King Research Chair	Dr. Jim Johnson
GSK Chair in Clinical Pharmacology	Dr. Michael Rieder
Hannah Chair in the History of Medicine	Dr. Shelley McKellar
Harris-Woodman Chair in Psyche & Soma	Dr. Ruth Lanius
Ian McWhinney-Chair of Family Medicine Studies	Dr. Stewart Harris
The Heart and Stroke Foundation of Ontario/Barnett-Ivey Chair	Dr. Geoff Pickering
Jacob J. Wolfe Distinguished Medical Research Chair in Human Gene Function	Dr. Robert Hegele
J.C. Kennedy Chair in Orthopaedic Surgery	Dr. Steven MacDonald
Kathleen and Dr. Henry Barnett Chair in Stroke Research	Dr. Luciano Sposato
Martha G. Blackburn Chair in Cardiovascular Research	Dr. Robert Hegele
Provincial Endowed Academic Chair in Autism and Behavioural Sciences	Dr. Julio Martinez-Trujillo
Ramsay W. Gunton Chair in Cardiology	Dr. Raymond Yee
Ray and Margaret Elliot Chair in Surgical Innovation	Dr. Bob Kiaii
Richard and Beryl Ivey Chair in Clinical Neurological Sciences	Dr. Paul Cooper
Richard and Jean Ivey Fund Chair in Molecular Toxicology	Dr. Qingping Feng
Richard Ivey Chair of Medicine	Dr. James Calvin
Richard Ivey Chair of Surgery	Dr. Emil Schemitsch
Sheldon H. Weinstein Chair in Diabetes Research	Dr. David Hess
Tanna Schulich Chair in Neurosciences & Mental Health	Dr. Peter Williamson
Wolfe Medical Research Chair in Pharmacogenomics	Dr. Richard Kim



RESEARCH



RESEARCH

- Researchers at the Schulich School of Medicine & Dentistry, Western University shared in \$13.8 million in funding for Western from the Canada Foundation for Innovation. These world-class research and technology development activities are in areas of strategic institutional priority, and are transformative infrastructure projects that will underscore cutting-edge, globally competitive research. The recipients include: Dr. Eric Arts - *Infectious Disease Pathogenesis Facility for the Study of Emerging and Re-emerging Infectious Diseases*; Dr. Terry Peters - *Minimally-invasive Surgery and Therapy*; Dr. Geoffrey Pickering - *Facility for Microcirculatory Imaging and Tissue Analytics*; and Dr. Mel Goodale - *New Horizons in Human Cognitive Neuroscience Research*.
- Two Canadian Institutes for Health Research Foundation Grants totaling \$3 million were received by Dr. Aaron Fenster - *Develop Mechatronic Robotic Systems to Guide Minimally Invasive Interventions for Gynaecologic and Liver Cancers* and Dr. Lena Palaniyappan - *The Brain Mechanism that Leads to Treatment Failure in Schizophrenia*.
- The scientific community was buzzing with the promise that CRISPR offers for human gene-editing, opening the door to use gene-therapy to treat disease like cystic fibrosis and leukemia. A team of researchers, including Drs. David Edgell, Greg Gloor, and Caroline Schild-Poulter, has added an engineered enzyme to the revolutionary new gene-editing tool, CRISPR/Cas9, making gene-editing more efficient and potentially more specific in targeting genes.
- Dr. Steven Laviolette, and his lab have found a way to use pharmaceuticals to reverse the negative psychiatric effects of THC, the psychoactive chemical found in marijuana. This finding is especially important given the impending legalization of marijuana in Canada.
- Dr. Ravi Menon and his team published a study that showed young hockey players who have suffered concussions may still show changes in the white matter of the brain months after being cleared to return for play. The team looked at MRI brain scans from 17 Bantam-level hockey players between the ages of 11 and 14, who suffered a concussion during the regular season and who were compared to an age-matched control of non-concussed players. The MRI showed that there are still changes occurring in the brain even after the clinical tests have returned to normal.
- A major renovation of the fifth floor of the Dental Sciences Building was undertaken to create the Translational Cognitive Neuroscience Laboratory under the leadership of Drs. Tim Bussey and Lisa Saksida. The goal of their research is to understand learning, memory, as well as other areas of cognition. They are researching what goes wrong in conditions like Alzheimer's disease or schizophrenia, and possible targets for therapy, using several different converging methods of enquiry.
- A new research laboratory was constructed for use by the Department of Pathology and Laboratory Medicine in the Dental Sciences Building. This lab is now housing a member of the Department investigating protein mis-folding, aging, and cellular quality control in human diseases, focusing on age-related neurodegenerative diseases, such as Parkinson's disease, Huntington's disease, and Amyotrophic Lateral Sclerosis.
- Construction was completed on Canada's only level 2/3 viral research facility – the Imaging Pathogens for Knowledge Translation Facility. At the heart of the University campus, this multi-million dollar research facility will become home to one of only three North American leading virology research centres with a focus on HIV/AIDS – at a time when the rates of HIV/AIDS are climbing once again.

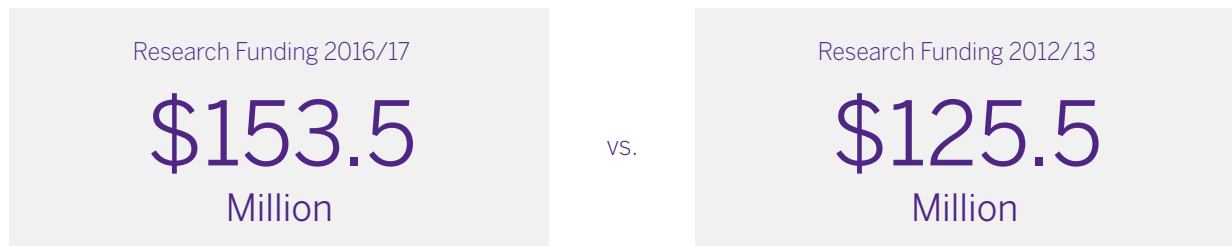
ROBARTS RESEARCH INSTITUTE

- > Dr. David Hess has been appointed as the Sheldon H. Weinstein Endowed Chair in Diabetes Research. The focus of his research is to understand the mechanisms by which distinct stem cell subsets co-ordinate angiogenesis and tissue regeneration during diabetes and its cardiovascular complications. He is interested in the development of cellular therapies to mediate the repair of diseased, damaged or ischemic tissues.
- > The 2017 Discover Robarts series welcomed more than 300 community members to the Institute for a unique experience to join leading scientists and clinicians as they presented an overview of their research on an accessible and relatable level, followed by a brief tour of their respective laboratories. New to the 2017 Discover Robarts series was the 'Robarts in the Community' session. For this event, four Robarts scientists joined forces in a panel discussion to provide their perspectives on 'Medicine Tailored to You' for a group of over 50 community members at Goodwill Industries.
- > His Excellency the Right Honourable David Johnston, Governor General of Canada, toured Robarts Research Institute during his visit to Western University. He spoke with Robarts scientists Drs. Rob Bartha, Arthur Brown, Greg Dekaban and Ravi Menon about their groundbreaking concussion research using state-of-the art brain imaging technology.
- > Dr. Sarah Svenningsen is among the first in Canada to approach medical imaging technology as a potential treatment tool for asthma. Early on, her research indicated MRI technology could be used to deliver targeted, more effective treatment for those affected by asthma, considerably benefiting both patients and health care providers. For this pioneering research, Dr. Svenningsen, who completed her PhD in 2017, and is a postdoctoral fellow, received the prestigious John Charles Polanyi Prize, announced by the Council of Ontario Universities. Named after John Charles Polanyi, recipient of the 1986 Nobel Prize in Chemistry, the prize annually recognizes five outstanding researchers in early stages of their career who are continuing to postdoctoral studies or have recently started a faculty appointment at an Ontario university.

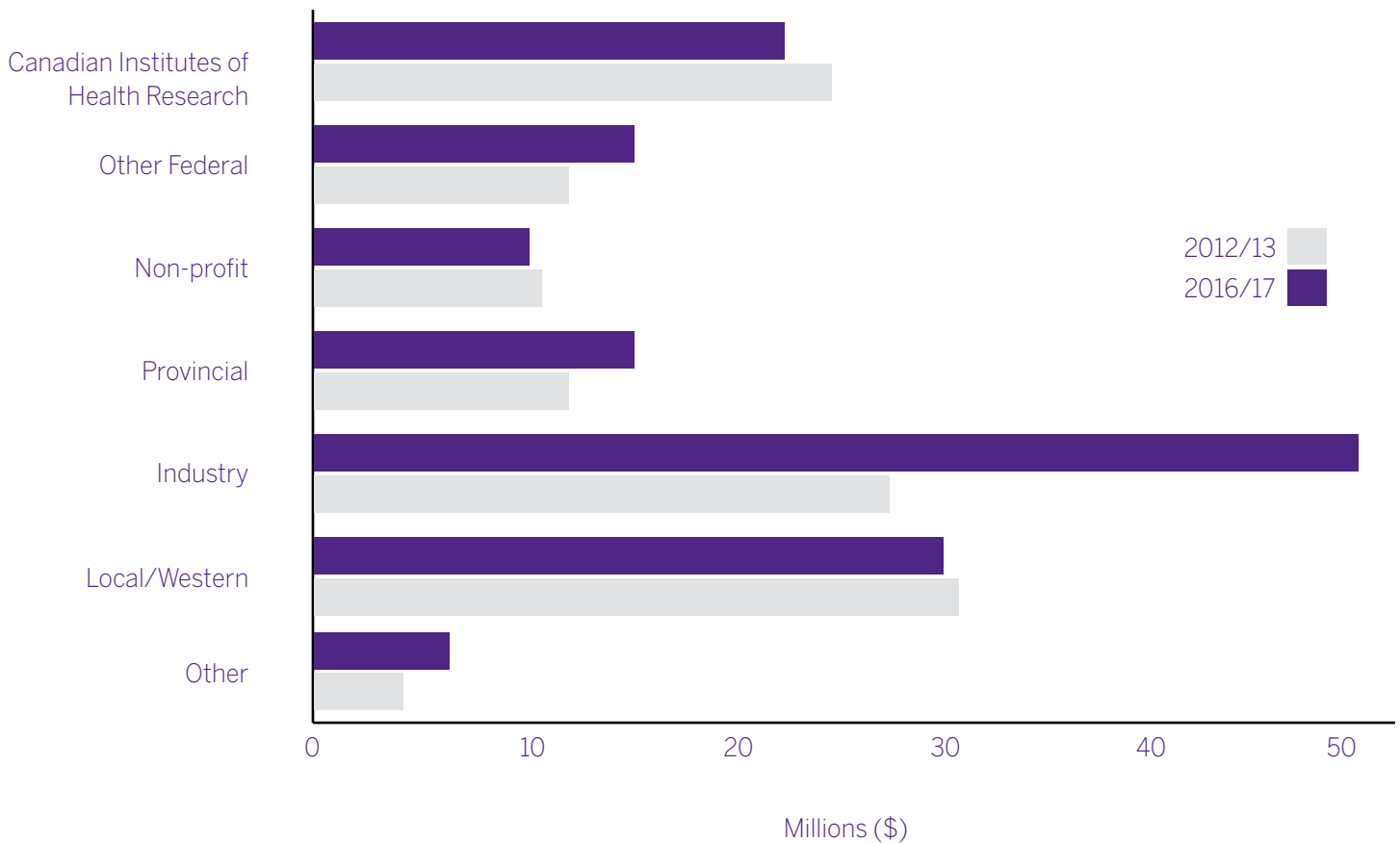
CANADA RESEARCH CHAIRS

Canada Research Chair	Current Chair Holder	Tier
Bioethics	Dr. Charles Weijer	1
Brain Plasticity and Development	Dr. Stephen Lomber	1
Chemical Biology	Dr. Patrick O'Donoghue	2
Cognitive Neuroscience and Neuroimaging	Dr. Penny MacDonald	2
Functional Magnetic Resonance Imaging	Dr. Ravi S. Menon	1
Gap Junctions and Disease	Dr. Dale W. Laird	1
Health Services Research	Dr. Amardeep Thind	2
HIV Pathogenesis and Viral Control	Dr. Eric Arts	1
Musculoskeletal Research	Dr. Frank Beier	1
Neuroepigenetics	Dr. Jamie Kramer	2
Sensorimotor Neuroscience	Dr. Andrew Pruszynski	2
Translational Cognitive Neuroscience	Dr. Lisa Saksida	1

Research funding 2012-2013 vs. 2016-2017



Research funding breakdown 2012-2013 vs. 2016-2017



AWARDS





AWARDS RECEIVED BY ALUMNI, FACULTY, STAFF & STUDENTS

INTERNAL AWARDS 2017

Awards of Excellence	Recipient
Schulich Excellence in Education Awards for Undergraduate Education	
Educator Award	Dr. Angela Beye
Educator Award	Dr. Heidi Haensel
Educator Award	Dr. Charys Martin
Educator Award	Dr. Lisa Shepherd
Educator Award	Dr. Teresa Van Deven
Leader Award	Dr. Herschel Rosenberg
Leader Award	Dr. Michele Weir
Distinguished Leader	Dr. Mark Awuku
Distinguished Leader	Dr. Shannon Venance
Schulich Excellence in Education Awards for Graduate/Postgraduate Education	
Educator Award	Dr. Daniel Leger
Leader Award	Dr. Simon Levin
Leader Award	Dr. Cheryle Seguin
Distinguished Leader	Dr. Janet Martin
Schulich Award of Excellence for Faculty in Distributed Sites	Dr. Shanil Narayan
Schulich Award of Excellence for Faculty in Distributed Sites	Dr. Amit Bagga
Schulich Award of Excellence for Faculty in Distributed Sites	Dr. Rochelle Dworkin
Schulich Award of Excellence for Faculty in Distributed Sites	Dr. Anna Mayer
Schulich Award of Excellence for Faculty Development	Dr. Laura Foxcroft
Dean's Awards of Excellence for Faculty	
Multiple Areas	Dr. Richard Bohay

Research

Research

Junior Faculty

Team Award

Dr. Irene Hramiak

Dr. Marco Prado

Dr. Brian Allman

Centre for Education Research & Innovation Team

- Dr. Lorelei Lingard
- Dr. Mark Goldszmidt
- Dr. Chris Watling
- Dr. Sayra Cristancho
- Dr. Saad Chahine
- Dr. Lisa Faden
- Sonya Cuprjak

Lifetime Achievement

Dr. George Klein

Lifetime Achievement

Dr. Moira Stewart

Dean's Awards of Excellence for Staff

Newcomer Award

Kimberly Trudgeon

Spirit Award

Debbie Mayea

Continuous Excellence Award

Angela DeCandido

Continuous Excellence Award

Kathy Sadler

Continuous Excellence Award

Dawn Bryce

Continuous Excellence Award

Holly Dupuis

Innovation Award

Matt Longstaffe

Inspirational Leader Award

Betty Holme

Inspirational Leader Award

Jennifer Párraga

Awards of Excellence - Windsor Campus

Recipient

Associate Dean's Award of Excellence in Medical Education

Dr. Adewale Akinlosotu

Associate Dean's Award of Excellence in Medical Education

Dr. Lawrence Aoun

Associate Dean's Award of Excellence in Medical Education

Bianca Vasapolli

Educators' Award of Excellence in Medical Education	Dr. Barry Emara
Educators' Award of Excellence in Medical Education	Dr. Lana Lee
Educators' Award of Excellence in Medical Education	Christine Wellington
Learner Peer Award for Excellence in Medical Education	Jasmin Nari
Learner Peer Award of Excellence in Medical Education	Shannon Baker
Learner Peer Award of Excellence in Medical Education	Alexander Presello
Dr. Colin Nisbet Award for Excellence in Emergency Medicine	David Morden
Windsor Sub Specialty Rotation - Faculty of the Year Award	Dr. Darren Cargill
Windsor Family Medicine - Faculty of the Year Award	Dr. Helena Hamdan
Family Medicine Postgraduate Award for Academic Leadership	Dr. Aaron Sacheli
City of Windsor - Family Physician Award	Dr. Nick Paquette

Alumni Of Distinction Awards

Recipient

Excellence in Basic Science Research Award	Dr. Peter Leung, PhD'79
Professional Achievement Award — Medicine	Dr. David Spence, BA'65, MD'70
Alumni of Distinction — Dentistry	Dr. Paul Romanson, DDS'72
Young Alumni Award — Medicine	Dr. Zain Kassam, MD'08
Young Alumni Award — Dentistry	Dr. Shawn Steele, BA'01, DDS'05, JD'13
Community Service Award	Dr. Cecil Rorabeck, MD'68, DSc'09
Community Service Award	Dr. Robert Bourne, MD'71
Dean's Distinguished Lecture Award	Dr. Margaret Chan, BA'73, MD'77, DSc'99

Schulich Dentistry Fall Awards

Faculty Awards

W.W. Wood Faculty Award	Dr. Abdulrahman Al-Osmun
C.Y. Lung Award	Dr. Gregory Jensen

Class of 2018

Western Faculty Association Scholarship	Sameen Abrar
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Dr. and Mrs. Charles Lin Humanitarian Award
Ontario Dental Association Proficiency Award
Elgin Dental Association Award in Oral Surgery
Association of Prosthodontists of Ontario Award
International College of Dentists Award
Academy of Operative Dentistry Award
Dr. and Mrs. Charles Lin Clinical Award
Canadian Academy of Periodontology Award
Schulich Dentistry Prize in Professionalism and Ethics
Centennial Orthodontics and Paediatric Dentistry Award

Jennifer Branch and Sarah Alves
Jennifer Branch
David Feere
Daniella Kachur-Sizgoric
Carolyn Karr
Rifaan Lalji
Inhae Park and Nathan Miskin
Sannan Obaidullah
Calvin Richardson
Sadia Tasleem

Class of 2019

Centennial Orthodontic and Paediatric Dentistry Award
Toronto Crown & Bridge Study Club Award
Royal College of Dental Surgeons of Ontario Scholarship
Second Year
Laura Stakiw Memorial Award
Dr. Donald MacLean Award in Oral Radiology

Michelle Lepore
Thomas Proulx
Christina Sperou
Andrei Zaharia
Leanne Zive

Class of 2020

Royal College of Dental Surgeons of Ontario Dean's Award of
Excellence
Royal College of Dental Surgeons of Ontario Scholarship First Year
Dentistry Class of 1975 Scholarship
Dr. Sam Ioannidis Memorial Award
Toronto Crown & Bridge Study Club Award
General Medicine Award

Kristen Desranleau
Kristen Desranleau
Kristen Desranleau and Andrew Hogan-Cann
Lauren Doherty
Lauren Doherty
Cameron Mate

Schulich Medicine & Dentistry Internal Graduate Awards	Recipient
Collip Medal Award	Dr. Benjamin Kolisnyk
Cobban Student Award in Heart and Stroke Research	Dr. Jason Lee
Drs. Madge and Charles Macklin Fellowship for Teaching and Research in Medical Sciences	Tyler Beveridge
Drs. Madge and Charles Macklin Fellowship for Publication in Medical Sciences	Karen Dunkerley
John P. Robarts Award for Innovative Medical Research	Maria Sancho-Gonzalez
John P. Robarts Award for Innovative Medical Research	Ali Attaran
Jonathan & Joshua Memorial Graduate Scholarship (Doctoral)	Christopher Norris
Jonathan & Joshua Memorial Graduate Scholarship (Doctoral)	Renee Tamming
Jonathan & Joshua Memorial Graduate Scholarship (Doctoral)	Niveen Fulcher
Jonathan & Joshua Memorial Graduate Scholarship (Masters or Doctoral)	Alex Major
Nellie Farthing Fellowship in Medical Sciences	Tyler Beveridge
Nellie Farthing Fellowship in Medical Sciences	Dante Capaldi
Nellie Farthing Fellowship in Medical Sciences	Brennan Dirk
Norman E. Nixon Marie Rämö Nixon Award	Katie Parkins
Morris Kroll Award	Ashley Makela

Dr. Ed Brecevic Award for Compassionate Care	Recipient
	Dr. Mary Mathews

Student Research Training Program Awards	Recipient
Dr. L DeWitt Wilcox Award	Farhad Ghasemi
Dr. Cindy Hutnik Award	Tricia Mohan
Horace and Clarice Wankel Memorial Award for Cardiovascular Research	Alex Pavlosky
Dr. Glen S. Wither Award	Laura Ball

Western University Awards	Recipient
Faculty Scholar Award	Dr. Brian Corneil
Award of Excellence in Undergraduate Teaching	Dr. Sarah McLean
Innovations in Technology Enhanced Teaching Award	Dr. Anita Woods
World's Challenge Challenge	Michelle Quaye
Long Service Award Full-Time	Dr. Lynn Bergin
	Dr. Peter Blake
	Dr. Orlando da Silva
	Ronnine Elston
	Dr. Graham King
	Janice Koenig
	Dr. Michael Kovacs
	Dr. Thomas Mara
	Dr. Ruth McManus
	Dr. J. Geoffrey Pickering
	John Robinson
	Dr. Douglas Ross
	Dr. Gary Shaw
	Dr. Margaret Steele
	Dr. Mark Vincent
	Dr. James Watson
	Dr. Andrew Watson
	Dr. Sahza Hatibovic-Kofman

EXTERNAL AWARDS 2017

Ontario College of Family Physicians Award

	Recipient
Region 2 Family Physician of the Year Award	Dr. Kathryn Bailey
Award of Excellence	Dr. Scott McKay
Award of Excellence	Dr. Larry Schmidt
Award of Excellence	Dr. Darren Cargill

The Undergraduate Award — Highly Commended Entrant

Recipient
Flora Jung
Emaad Mohammad
Hunster Yang

Professional Association of Residents of Ontario Award

	Recipient
Clinical Teaching Award	Dr. Ian Ball
Resident Teaching Award	Dr. Matthew Cohen
Medical Student Citizenship Award	Dr. Tehmina Ahmad

Canadian Association for Medical Education Certificate of Merit Award

Recipient
Dr. Hariharan Iyer
Dr. Scott McKay

Vanier Canada Graduate Scholarship

Recipient
Dr. Marat Slessarev
Charles Yin

Provincial, National and International Awards	Recipient
Ontario Pediatrician of the Year Award	Dr. Mark Awuku
John Charles Polanyi Prize	Dr. Sarah Svenningsen
Russ Jackson Award	Nick Vanin
Maurice Wood Award for Lifetime Contribution to Primary Care Research	Dr. Moira Stewart
Canadian Medical Hall of Fame Inductee	Dr. Vladimir Hachinski
Charles Tabachnick Canadian Medical Hall of Fame Award	Tavis Apramian
Radiological Society of North America Trainee Research Prize	Dante Capaldi
Royal Society of Canada Fellow	Dr. Terry Peters
Canadian Cardiovascular Society Award	Dr. Anthony Tang
Canadian Urological Association Lifetime Achievement Award	Dr. Joseph Chin
Sumner J. Yaffe Lifetime Achievement Award in Pediatric Pharmacology and Therapeutics	Dr. Michael Rieder
Canadian College of Neuropsychopharmacology Young Investigator Award	Dr. Lena Palaniyappan
Peter Kirkby Memorial Medal — Outstanding Service to Canadian Physics Award	Dr. Jerry Battista
Governor General Meritorious Service Cross Award	Dr. Ting-Yim Lee
Ontario Undergraduate Student Alliance Teaching Excellence Award	Dr. Sarah McLean
YMCA Woman of Excellence	Dr. Marina Salvadori
College of Family Physicians of Canada Indigenous Medical Student Scholarship	Amanda Sauvé
WORLDiscoveries Scholarship	Haider Hassan



INTERNATIONALIZATION

INTERNATIONALIZATION

- > Engagement with strategic partners in China continues to expand. Schulich Medicine & Dentistry hosted the fourth Joint Western University–Nanjing Medical University (NMU) Symposium on Medical Education. Five delegates from NMU and several faculty and staff from the School were also invited to present at the Ontario-China Forum in Toronto to showcase their partnership. The relationship between Schulich Medicine & Dentistry and NMU has led to the development of a faculty and student exchange program between the two universities, increased research collaboration and strengthened the foundations of medical education through the sharing of knowledge. In November, the School signed a joint PhD agreement as part of the Ontario Premier’s Mission to China.
- > The first ever Global MINDS Summer Institute took place in Machakos Town, Kenya. Ten students from across Western University, including two Schulich Medicine students, spent three weeks working with a team of students and faculty from Africa to evaluate and implement new solutions for mental disorders and related issues. Dr. Arlene McDougall, Psychiatry and Epidemiology and Biostatistics, who oversees the Global MINDS program, joined the students for the inaugural Institute.
- > The School began work to develop a strategic comprehensive partnership with Al-Rayan College, a private institution located in Medina, Saudi Arabia. A delegation from the School visited Al-Rayan College for a site visit and to explore further collaboration related to the enhancement of their medical education program. There is interest in developing an agreement which would see Schulich Medicine & Dentistry providing consultative services to enable Al-Rayan Medical College to raise the standard of its medical education program with the ultimate goal of achieving accreditation.
- > A Service Agreement was signed with the King Abdulassiz University in Jeddah for the training of residents and fellows, as well as collaboration related to research and continuing professional development.
- > Agreements have been signed with Universidad Científica del Sur and Universidad Peruana Cayetano Heredia, both located in Lima, Peru. These are the School’s first official partnerships with Peruvian institutions and they formalize connections that have been established during the past few years. The partnership involves opportunities for the exchange of students to participate in academic, research and clinical elective placements, as well as forging research linkages.
- > The 2017 International Summer Program brought together learners from more than a dozen countries for two weeks of collaborative sharing and education. The theme of the Program was ‘Introduction to Global Health.’ Students looked at global health from a multidisciplinary and multi-professional perspective. They received a high-level overview of global-health-related topics with the overarching goal to develop a broader understanding of major clinical and public health issues around the globe. The schedule also included a broad range of academic speakers, a public health case presentation, cross-cultural workshops and social outings.
- > The International & Health Equity Learning Program hosted 36 students in an international clinical elective, summer non-credit elective or research placement. Students were placed in China, Ethiopia, Hungary, Jordan, Kenya, Rwanda, Tanzania and Uganda.

SCHULICH SCHOOL OF MEDICINE & DENTISTRY,
WESTERN UNIVERSITY
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