

The
**DEAN'S
REPORT**

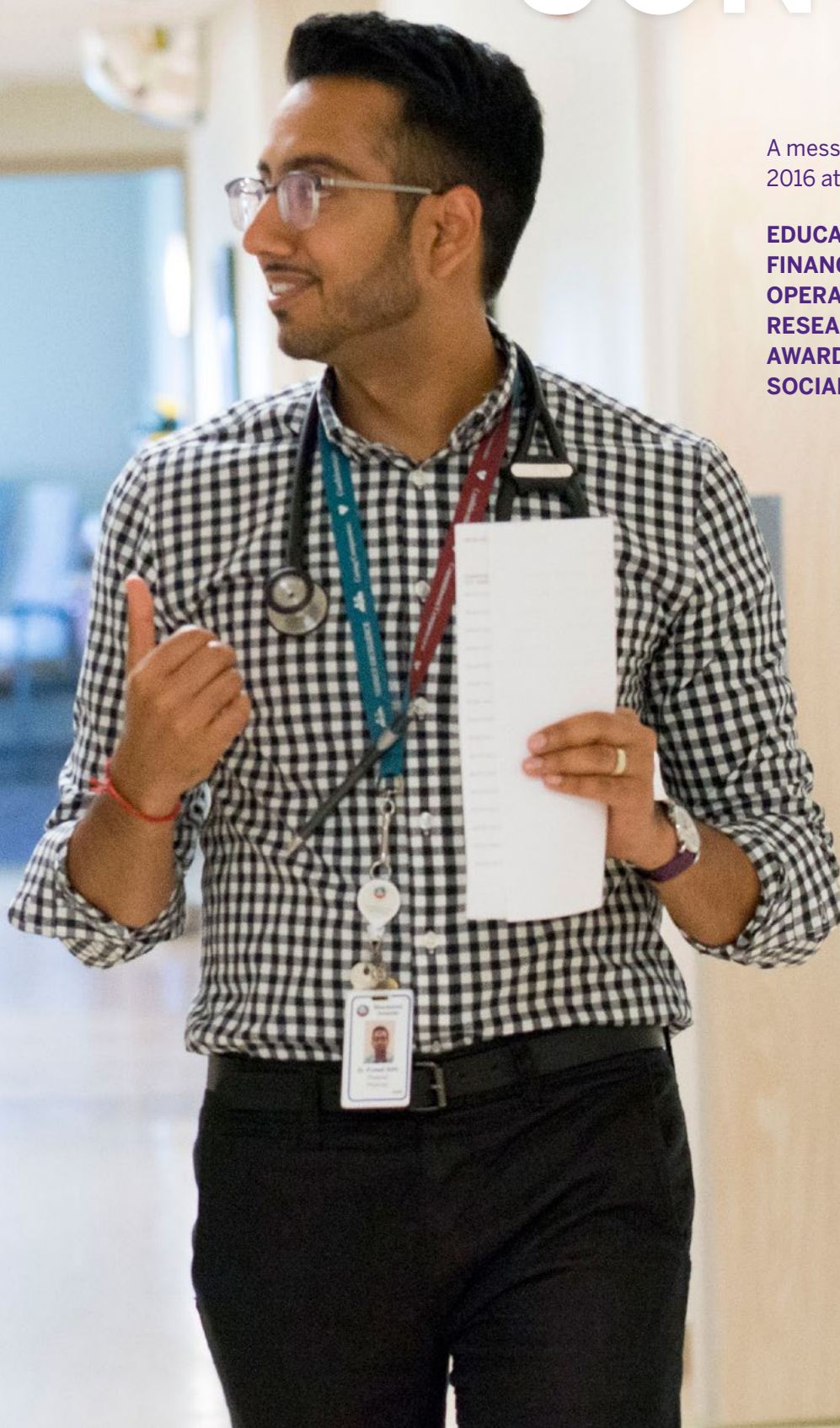
SCHULICH SCHOOL OF MEDICINE & DENTISTRY
ANNUAL PERFORMANCE REVIEW | 2016



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A MESSAGE FROM DR. MICHAEL J. STRONG



Extraordinary research funding was one of the major highlights of the past year at the Schulich School of Medicine & Dentistry.

The Canada First Research Excellence Fund (CFREF) made an investment of \$66 million – the largest research grant in Western University's history. It provided a major boost to the ongoing research in cognitive neuroscience and imaging at Western and funded a project known as BrainsCAN.

The School's researchers were also very successful in receiving grants totalling nearly \$30 million in funding from the Canadian Institutes for Health Research. Meanwhile, David Cechetto, PhD, and Gregor Reid, PhD, received individual grants of \$8.9 million and \$1.45 million respectively, for the work they are doing in Africa.

Complementing the successes of our research teams, were a number of achievements supporting our education mission.

Early in 2016, Schulich Dentistry launched its 10-year strategic plan, and in the past year, have worked through several of the priority projects, with work teams making recommendations in support of the future of dental education at Western. Additionally, we proudly celebrated the opening of the new Dentistry Simulation Laboratory, a critical facility, which is used extensively by the first- and second-year dental students.

During the summer months, we worked with our partners at the University of Windsor and renewed our Affiliation

Agreement for the operation of the Schulich School of Medicine & Dentistry – Windsor Campus for a 10-year period.

Additional achievements for our education programs included the five-year accreditation of the Master of Public Health Program provided by the Council on Education for Public Health, and the successful admittance of 268 new graduate trainees in September, which constituted the largest cohort of entering trainees at the School at one time.

This past year, we celebrated as Robarts Research Institute turned 30. The anniversary provided an opportunity to reflect upon the many research milestones achieved by the dedicated team of scientists, trainees and staff. From co-founder the late Dr. Henry Barnett's ground-breaking work on the use of aspirin therapy for stroke prevention to cutting-edge analyses using advanced imaging technologies, Robarts Research Institute remains a one-of-a-kind health research institute.

The events taking place around the world provided our faculty and learners with opportunities to discuss issues beyond our campus gates more so than ever before. Topics such as the welcoming of 25,000 Syrian refugees to Canada, physician mental health and wellness and the legalization of marijuana were key topics. Bill C-14, the legislation on medical assistance in dying was a major topic of discussion as we engaged medical, theological, legal and philosophical leaders with students, faculty and the community on this critical matter for open and enlightening conversations.

While 2017 has just begun, our research and education teams are already advancing some major initiatives which are embedded in our strategic plan and will support our vision to become a global leader in optimizing life-long health.

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

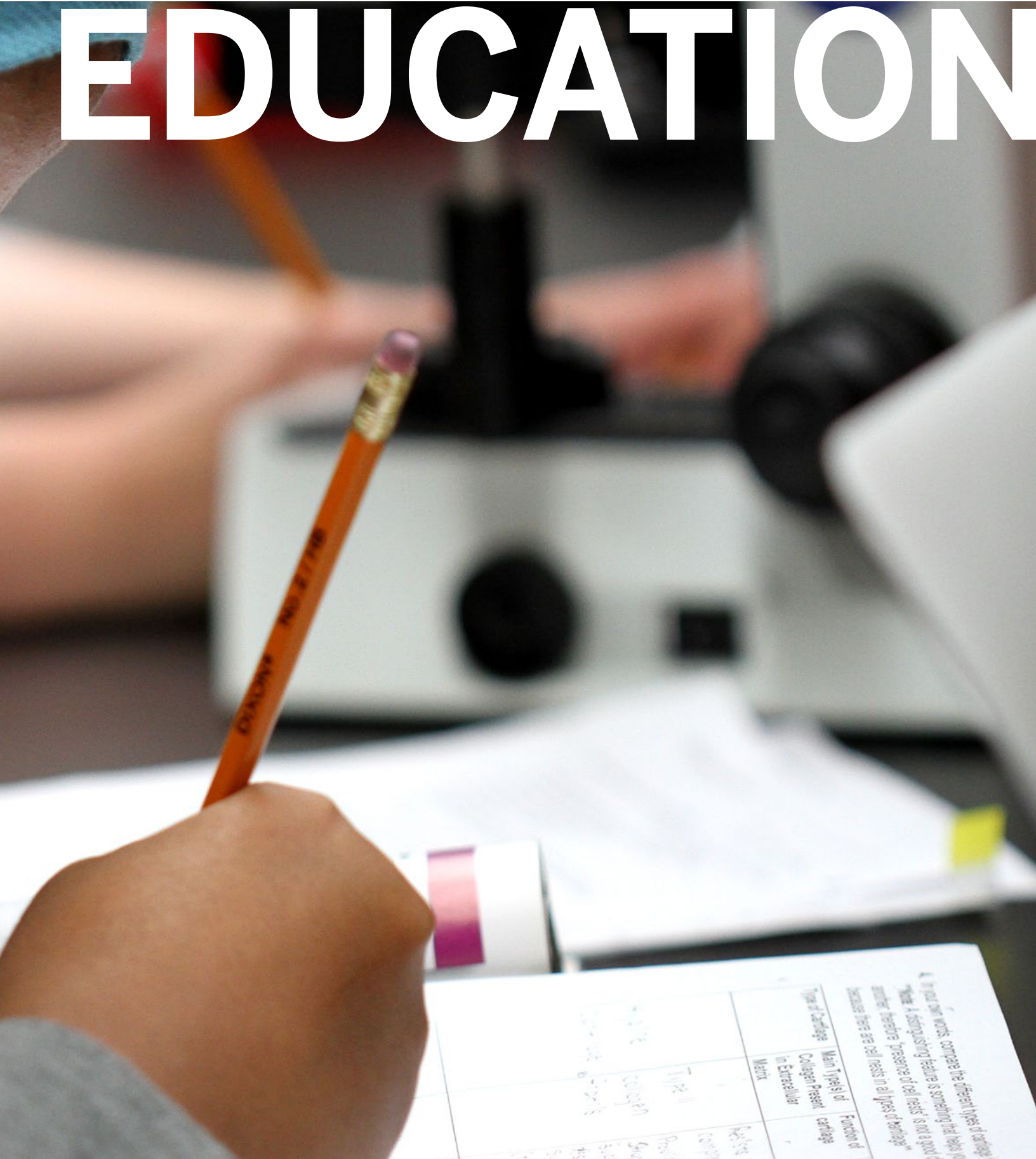
Michael J. Strong, MD, FRCP(C), FAAN, FCAHS
Dean, Schulich School of Medicine & Dentistry
Distinguished University Professor, Western University

2016 AT A GLANCE

- > Robarts Research Institute celebrated 30 years of innovative health research since its opening in 1986. The anniversary provided an opportunity to reflect upon the many research milestones achieved by the dedicated team of scientists, trainees and staff. From founder Dr. Henry Barnett's ground-breaking work on the use of aspirin therapy for stroke prevention, to cutting-edge analyses using advanced imaging technologies, Robarts Research Institute remains a one-of-a-kind health research institute.
- > The University's BrainsCAN initiative received a \$66 million investment from the Canada First Research Excellence Fund (CFREF) – the largest research grant in the University's history. It provided a major boost to the ongoing research in cognitive neuroscience and imaging at Schulich Medicine & Dentistry and Robarts Research Institute, as well as the Brain & Mind Institute, and the faculties of Social Science, Science, Health Sciences, Engineering, Arts & Humanities, and the Ivey Business School at Western. BrainsCAN's goal is to reduce the burden of brain disorders, which affect nearly 3.6 million Canadians, diminishing quality of life and creating an enormous burden on society and the health care system.
- > The new Dentistry Simulation Laboratory opened its doors to first- and second-year students replacing the older clinic constructed in 1968. The Laboratory is equipped with the latest teaching and dental technology, and allows for enhanced training opportunities. The newly-renovated space features more than 5,000 square feet of leading-edge simulation technology including true-to-life models, dental mannequins, digital x-rays and teaching cameras, all designed to develop the skill and precision vital to the practice of dentistry.
- > The Master of Public Health program received its accreditation for five years from the Council on Education for Public Health (CEPH). It is the first program in Ontario to receive this accreditation, and only the fourth in Canada.
- > Western University and the University of Windsor extended their affiliation agreement for the operation of the Schulich School of Medicine & Dentistry – Windsor Campus for a 10-year period. The first agreement led to the opening of the Windsor Program in September 2008. Currently 152 medical students call the Windsor Campus home for their undergraduate medical studies.



EDUCATION



4. In your own words, compare the different types of cartilage. What is a distinguishing feature of something that helps you another feature? presence of cell nests in all types of cartilage? because there are cell nests in all types of cartilage?

Type of cartilage	Main Types of Collagen Present in Extracellular Matrix	Function of cartilage
hyaline	Type II collagen	connective tissue
elastic	Type III collagen	elasticity
fibrocartilage	Type I collagen	resistance to compression

PROGRAM OFFERINGS

The Schulich School of Medicine & Dentistry offers a number 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
Graduate Orthodontics

Professional Programs

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

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

- Western University and the University of Windsor extended their affiliation agreement for the operation of the Schulich School of Medicine & Dentistry – Windsor Campus for a 10-year period. The first agreement led to the opening of the Windsor Program in September 2008. Currently 152 medical students call the Windsor Campus home for their undergraduate medical studies.
- The Office of Distributed Education Strategic Plan, with six strategic directions encompassing twenty-three specific goals, saw completion of its main key action items, including a staff model restructuring, a revised academic leadership model across Southwestern Ontario rural/regional teaching sites, and a revised academic leadership and remuneration model for the Windsor Campus.
- Effective July 2016, the city of Windsor had in place three full-time first-year psychiatry residents and one full-time fourth-year psychiatry resident, in addition to its permanent family medicine residents. This marked the first time that Schulich Medicine & Dentistry had a full-time/Canadian Resident Matching Service (CaRMS)-destination postgraduate medical education specialty training program outside of London (excluding family medicine). The launch of the psychiatry residency program in Windsor will provide relief for this specific physician shortage in rural and under-served areas across Southwestern Ontario.

DOCTOR OF DENTAL SURGERY PROGRAM

- Schulich Dentistry launched its 10-year strategic plan which included a new mission and vision, as well as five strategic directions. Work began immediately on four of the directions including a new human resources model; the re-engineering of the clinical education operational, teaching and practice management processes and procedures; the development of a technology strategy and investment plan; and a new faculty development model. The fifth project will be developed in connection to the School's overall strategic plan.
- The new Dentistry Simulation Laboratory opened its doors to first- and second-year students replacing the older clinic constructed in 1968. The Laboratory is equipped with the latest teaching and dental technology, and allows for enhanced training opportunities. The newly-renovated space features more than 5,000 square feet of leading-edge simulation technology including true-to-life models, dental mannequins, digital x-rays and teaching cameras, all designed to develop the skill and precision vital to the practice of dentistry.
- The new Dental Surgical Unit, a freestanding operating facility, became operational in 2016, and within a few months 100 successful patient cases, with no complications, were completed. The Unit, which is situated in the Dental School is the only unit of this nature in Canada. It features two state-of-the-art operating rooms, six recovery bays and a nursing station. It offers the provision of oral surgery and a wide spectrum of dental procedures. It serves as an important community resource and provides the opportunity for interdisciplinary learning for dental students to be exposed to minor surgical procedures, through observation and controlled teaching.

GRADUATE STUDIES AND POSTDOCTORAL AFFAIRS

- In September, 268 new graduate trainees began their studies in 18 different programs. This represented the largest cohort of entering trainees at the School.
- The Master of Public Health program received its accreditation for five years from the Council on Education for Public Health (CEPH). It is the first program in Ontario to receive this accreditation, and only the fourth in Canada.

BACHELOR OF MEDICAL SCIENCES

- > The Honors Specialization in One Health was introduced as part of the Bachelor of Medical Sciences Program. This module offers an innovative, interdisciplinary, collaborative, multi-faculty education and research experience for students, which focuses on the intricate link between animal health, environmental health, socioeconomic factors, and human health to address potential or existing risks that originate at the animal-human-ecosystems interface. This is the only undergraduate degree program specializing in One Health in Canada.
- > 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.
- > 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.

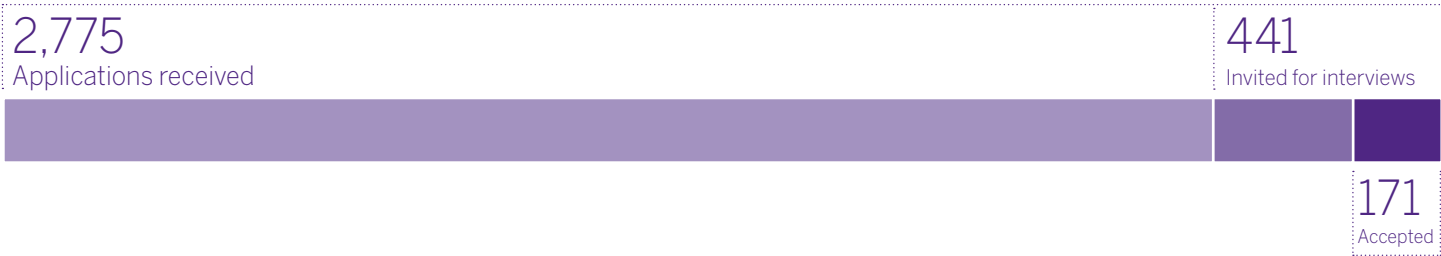
CURRENT SCHOOL ENROLMENT INCLUDES:

- > 683 Doctor of Medicine (MD) Program students, including 152 at the Windsor Campus
- > 225 Doctor of Dental Surgery (DDS) Program students
- > 847 students in Year 3 and 4 of the Bachelor of Medical Sciences Program
- > 75 Undergraduate Program in Neuroscience (BSc) students
- > 927 postgraduate medical trainees (residents and fellows)
- > 4 hospital-based postgraduate dental residents
- > 680 graduate students working toward MSc or PhD degrees
- > 108 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

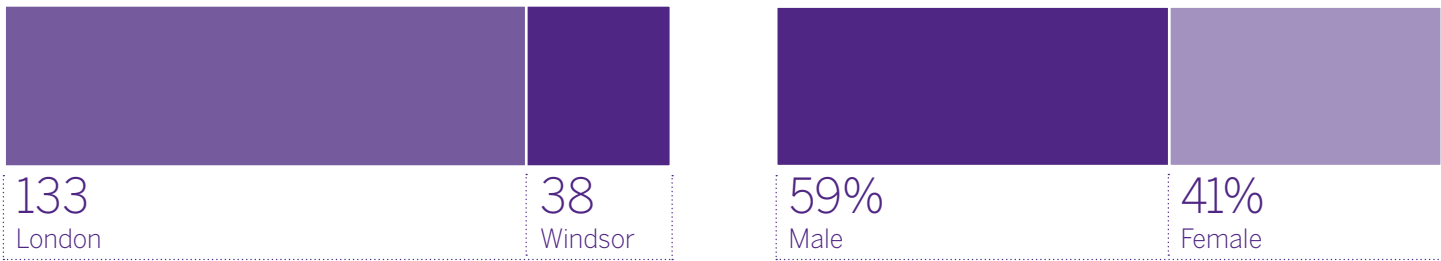
EDUCATION NUMBERS

UNDERGRADUATE MEDICAL EDUCATION 2016 PROFILE:

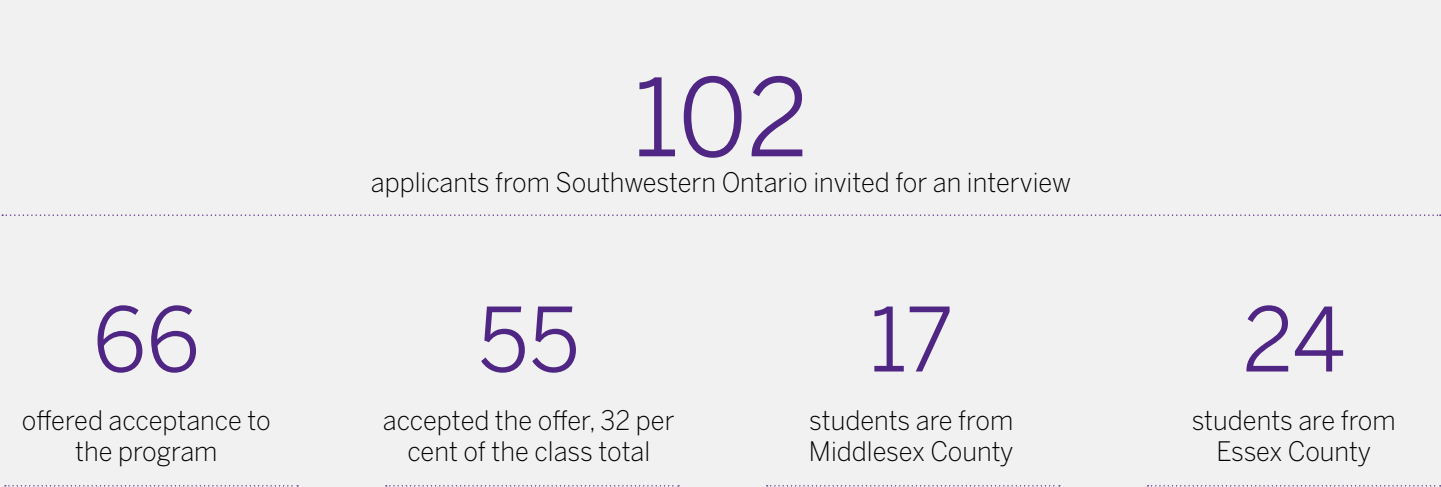
Medicine Class of 2020 profile



Demographics of the 171 students accepted

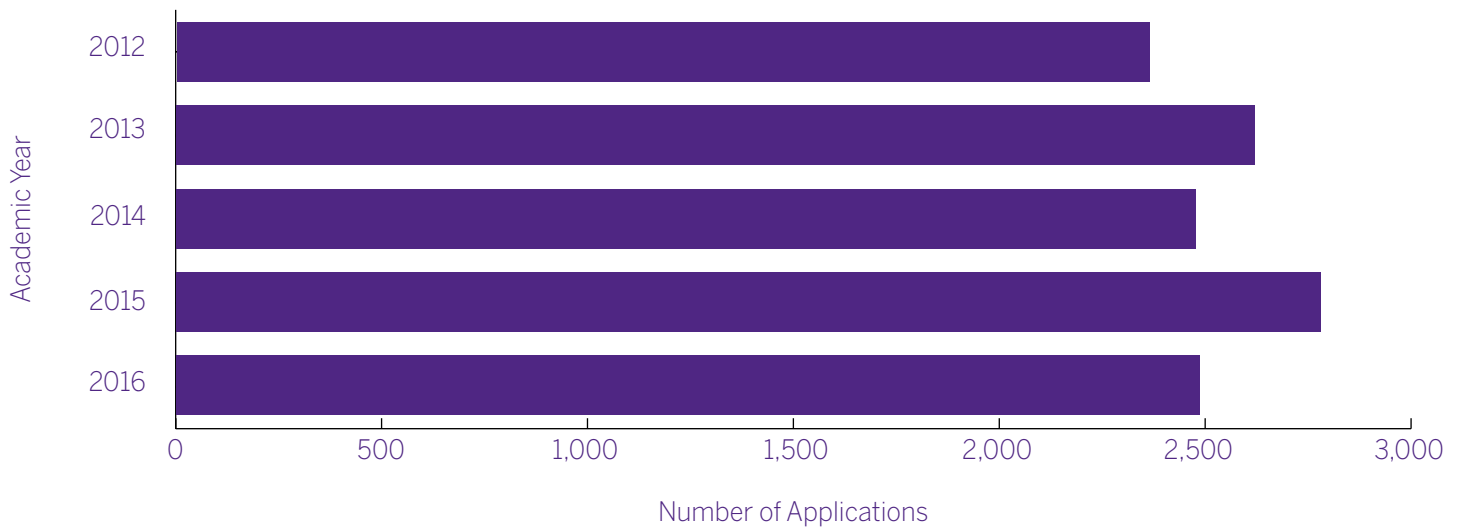


Demographics of applicants from Southwestern Ontario



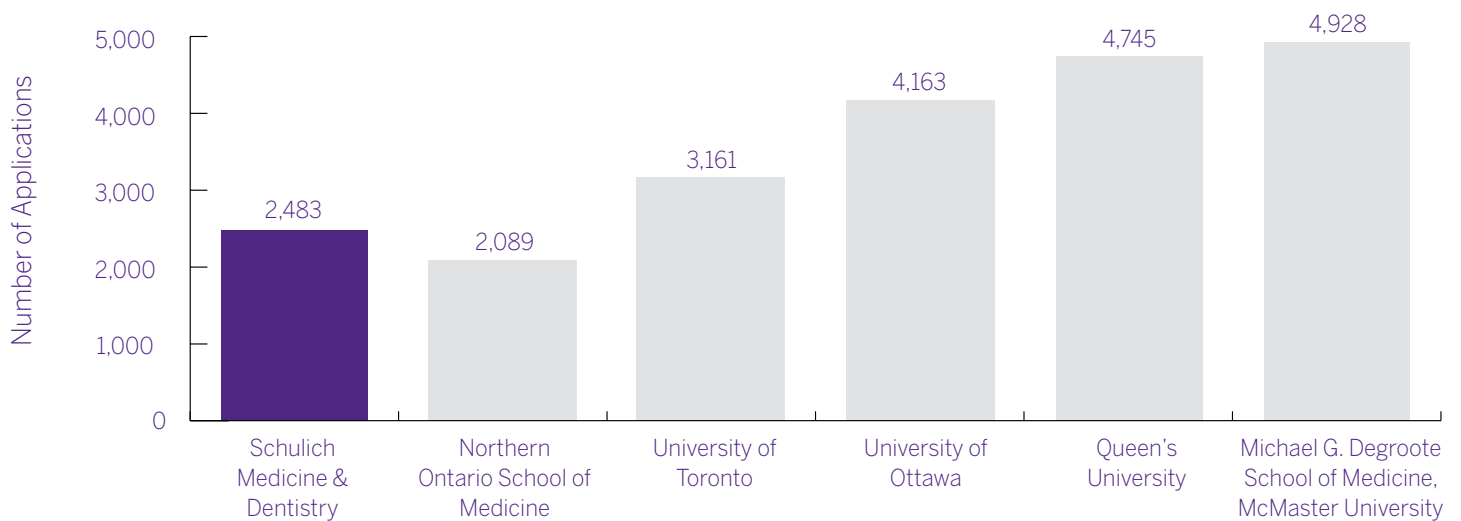
Schulich Medicine applications 2012-2016

Note: Year reflects applications for September entry of subsequent year. In 2016, 2,483 people applied for September 2017 entry



Ontario Medical School applications received by institutions for September 2016 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 2016 PROFILE:

Total enrolment for 2015-2016

927
Trainees

Postgraduate Year 1 (PGY-1) CaRMS entry positions
for July 2016

182
(With all positions filled)

Increase in International Trainees

2.3%

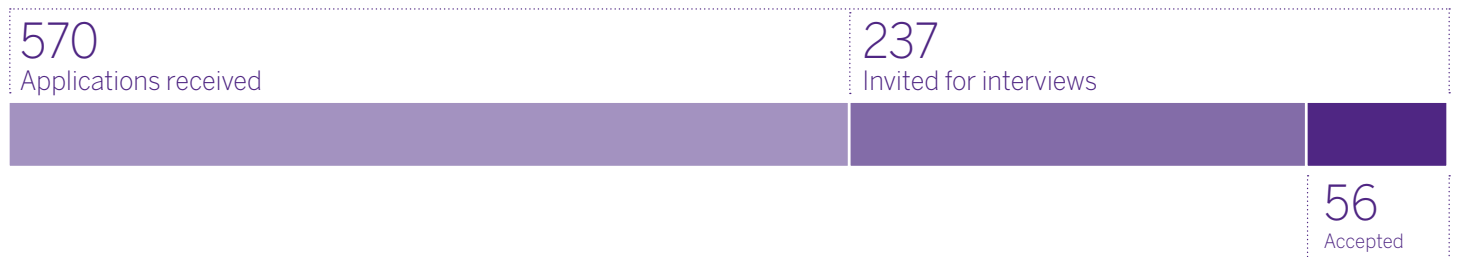
From 2014-2015 to 2015-2016

DISTRIBUTED EDUCATION LEARNERS AND TRAINING MONTHS:

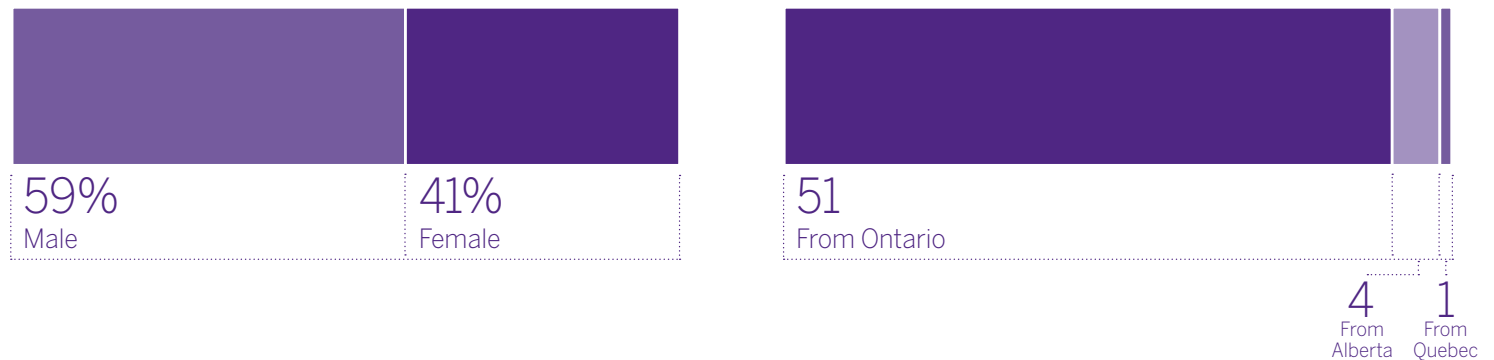
Programs	Number of Learners	Number of Training Months
Postgraduate Training	317	657
Clerkship Training	132	532
Undergraduate Elective Training	35	35
Total	484	1,224

DOCTOR OF DENTAL SURGERY 2016 PROFILE:

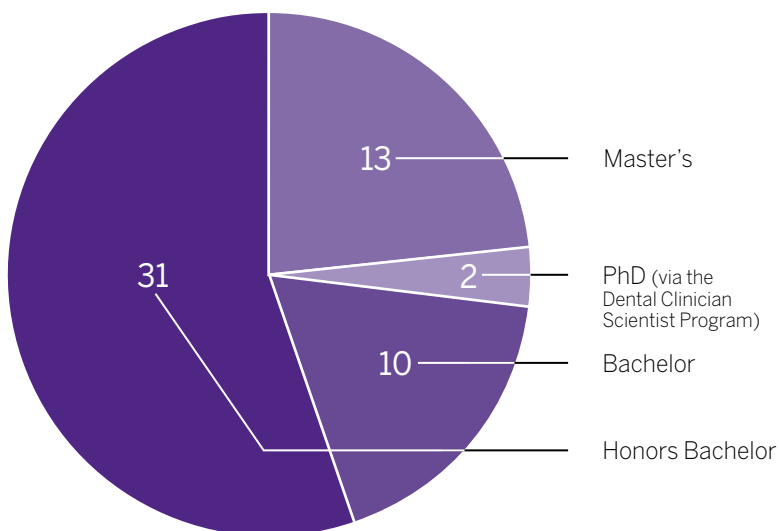
Dentistry Class of 2020 profile



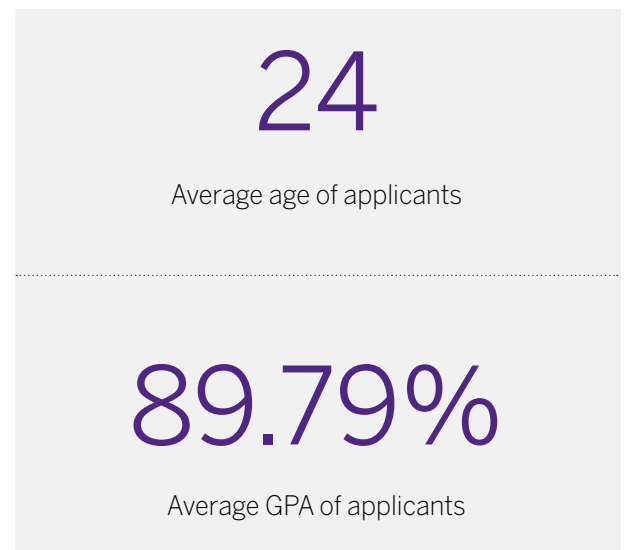
Demographics of the 56 students accepted



Applicant degrees

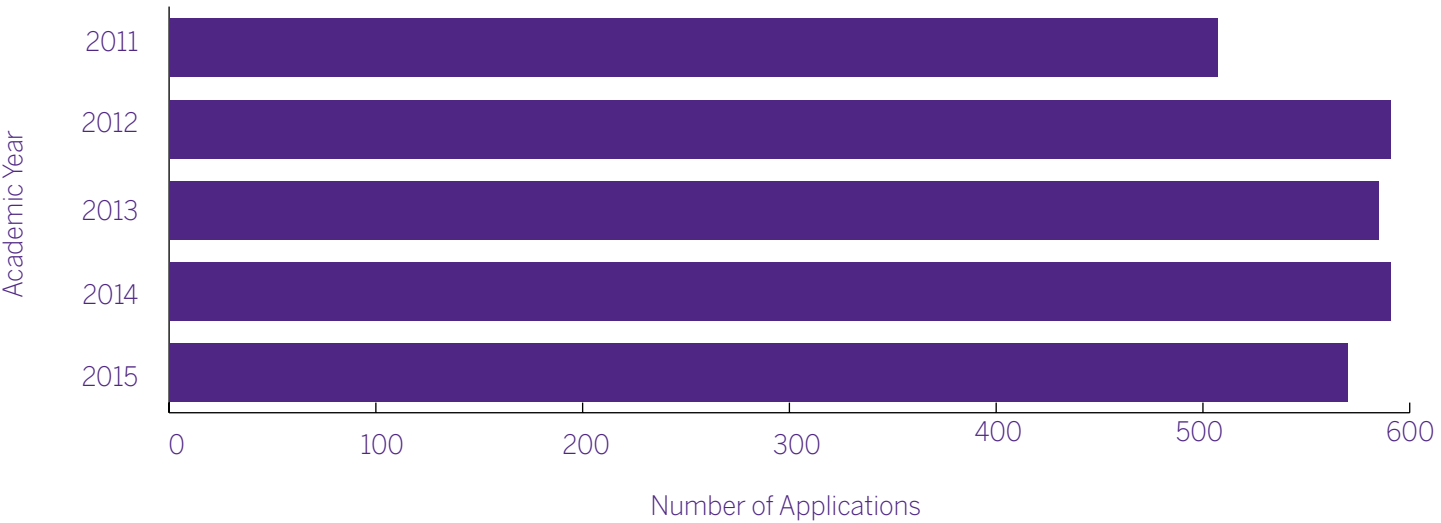


Additional applicant information





Schulich Dentistry applications 2012-2016



Internationally Trained Dentists enrolment 2012-2016

	ITD 1	ITD 2	Total
2012-2013	20	21	41
2013-2014	22	20	42
2014-2015	20	22	42
2015-2016	20	20	40
2016-2017	20	20	40

BACHELOR OF MEDICAL SCIENCES 2016 PROFILE:

Bachelor of Medical Sciences total enrolment 2012-2016

	Year 3	Year 4	Total
2012-2013	428	374	802
2013-2014	444	405	849
2014-2015	439	446	885
2015-2016	421	426	847
2016-2017	471	451	922

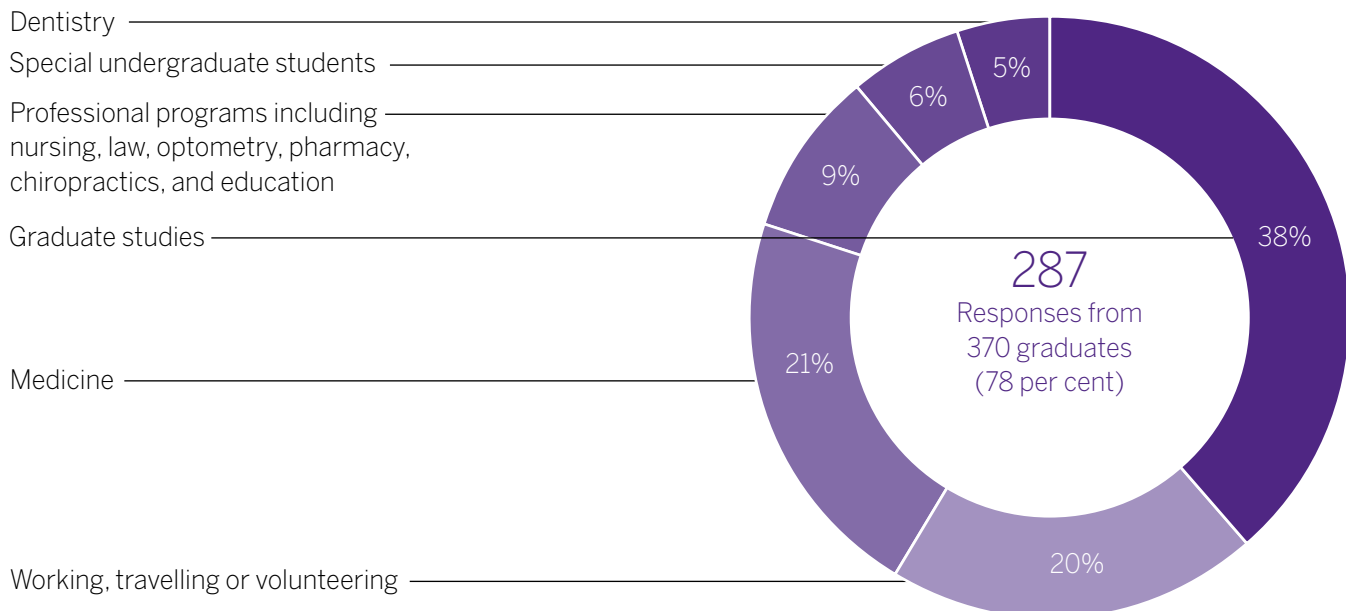
Medical Sciences First Entry boasted the highest admission average for all programs offered at Western University. The mean entering average for students admitted to Year 1 Science in 2016-2017 was 88.2 per cent. The mean entering average for students admitted to Year 1 Medical Sciences was 92.9 per cent.

Undergraduate Neuroscience total enrolment 2012-2016

	Year 2	Year 3	Year 4
2012-2013	19	-	-
2013-2014	29	17	-
2014-2015	29	26	13
2015-2016	30	22	23
2016-2017	30	28	21

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 2016-2017 was 83.5 per cent.

Bachelor of Medical Sciences 2016 career survey



GRADUATE STUDIES AND POSTDOCTORAL AFFAIRS 2016 PROFILE:

Graduate Studies and Postdoctoral Affairs enrolment

788

Trainees total

680

MSc and PhD candidates

108

Postdoctoral Fellows

Basic Sciences

403

Total MSc enrolment

181

Total PhD enrolment

Orthodontics

9

Total MCID enrolment

Neuroscience

62

Total MSc enrolment

25

Total PhD enrolment

MASTER OF PUBLIC HEALTH 2016 PROFILE:

42

Students enrolled in the Class of 2016

95%

Of graduates from the Class of 2015 are employed or
pursuing more education

50%

Of graduates from the Class of 2016 are employed or
pursuing more education four months post graduation



FINANCIAL ACCESSIBILITY



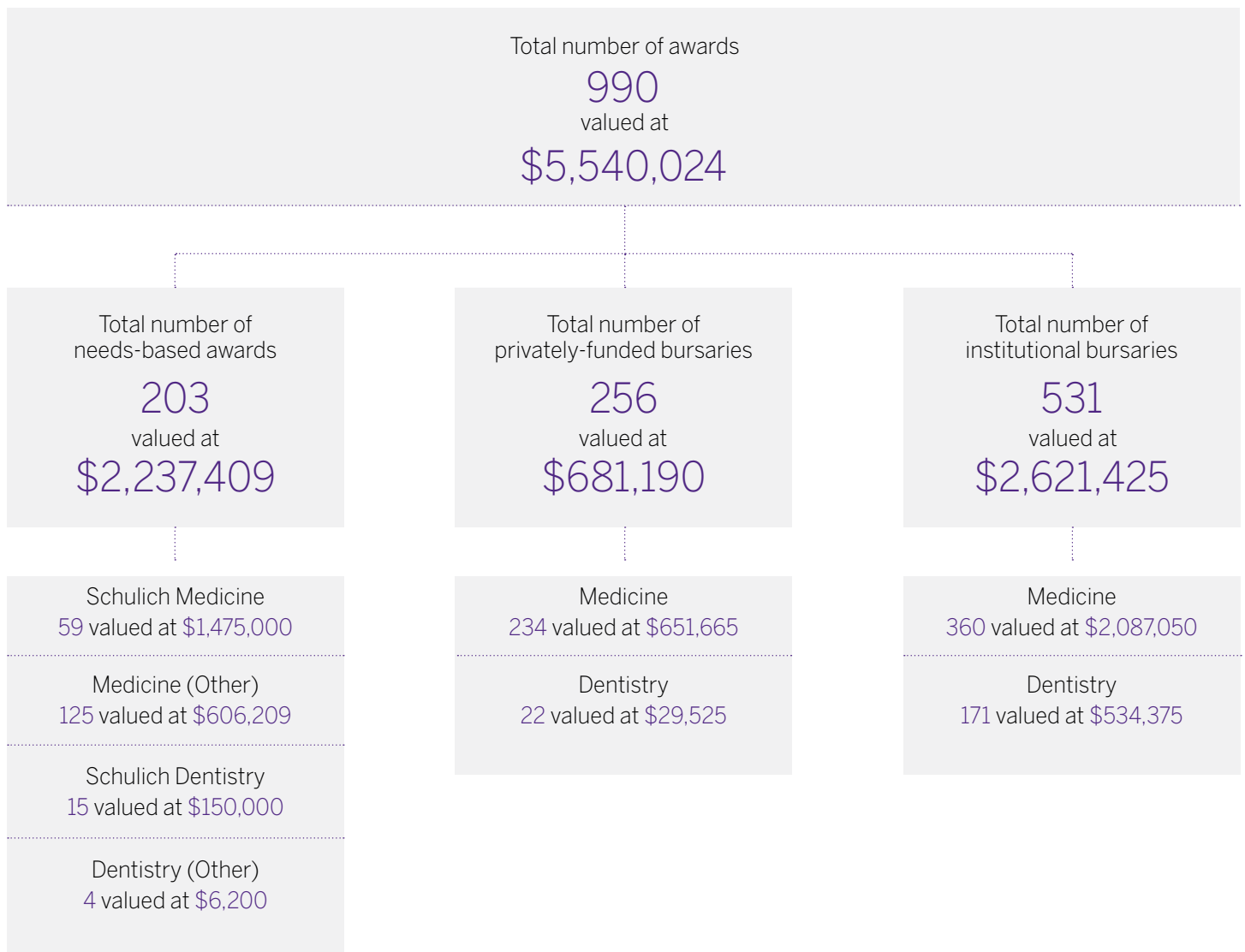
Monetary breakdown of yearly scholarships supported by Mr. Seymour Schulich

Medicine	Dentistry	Graduate Studies Basic Medical Sciences
60 annual recipients	16 annual recipients	50+ annual recipients
\$25,000 value per year, per student	\$10,000 value per year, per student	\$15,000 (\$5,000 Schulich Scholarships, \$10,000 OGS/QEII)*
\$100,000 total value per student over length of program	\$40,000 total value per student over length of program	- total value per student depends on program length
\$1,500,000 total annual value of the scholarship	\$160,000 total annual value of the scholarship	\$750,000 + total annual value of the scholarship

Grants and award funding for graduate students 2016

Type of Scholarship	Basic Medical Sciences	Neuroscience	Total funds
Western Graduate Research Scholarships	\$2,085,556	\$550,982	\$2,636,539
Ontario Graduate Scholarships	\$976,386	\$110,886	\$1,087,271
Canadian Institutes of Health Research	\$446,667	\$40,833	\$487,500
Natural Sciences and Engineering Research Council	\$656,834	\$215,833	\$872,667
Social Sciences and Humanities Research Council	\$28,333	-	\$28,333
Vanier Canada Graduate Scholarship	\$50,000	-	\$50,000
Other	\$888,389	\$96,333	\$984,723
Total	\$5,132,165	\$1,014,867	\$6,147,033

Financial Assistance breakdown for Medicine and Dentistry students 2016



OPERATIONS & ADMINISTRATION

The background of the page is a blurred photograph of a dental clinic. In the foreground, a dental chair is visible with its backrest up. To the left, there is a stainless steel sink. In the background, other dental chairs and equipment are visible, creating a sense of a busy clinical environment. The text "OPERATIONS & ADMINISTRATION" is overlaid in large, white, sans-serif capital letters.



FACILITIES

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

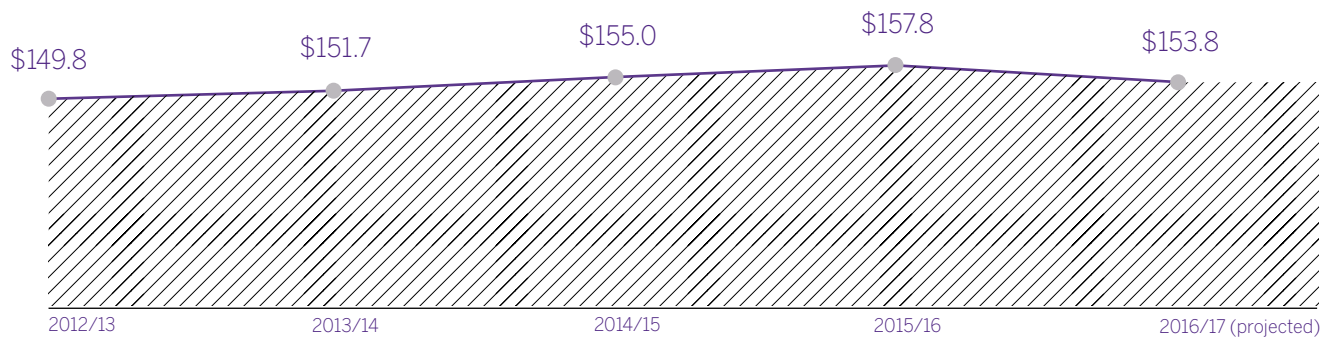
- Three major projects focused on upgrading classrooms and meeting rooms including architectural and audio visual upgrades supporting the provision of video conferencing to the School's Windsor Campus and enriching systems for conferencing with the many learners and faculty across the School's distributed education region.
- New research laboratories were constructed for use by the Department of Microbiology and Immunology in the Dental Sciences Building. These labs are now housing several members of the research team investigating HIV/AIDS. The space also includes student research and study spaces.
- The new Dentistry Simulation Laboratory opened its doors to first- and second-year students replacing the older clinic constructed in 1968. The Laboratory is equipped with the latest teaching and dental technology, and allows for enhanced training opportunities. The newly-renovated space features more than 5,000 square feet of leading-edge simulation technology including true-to-life models, dental mannequins, digital x-rays and teaching cameras, all designed to develop the skill and precision vital to the practice of dentistry.

Western University	2016 Net Square Footage
Dental Sciences Building	116,695
Dr. Don Rix Clinical Skills Learning Building	14,263
Health Sciences Addition	17,128
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	443,397

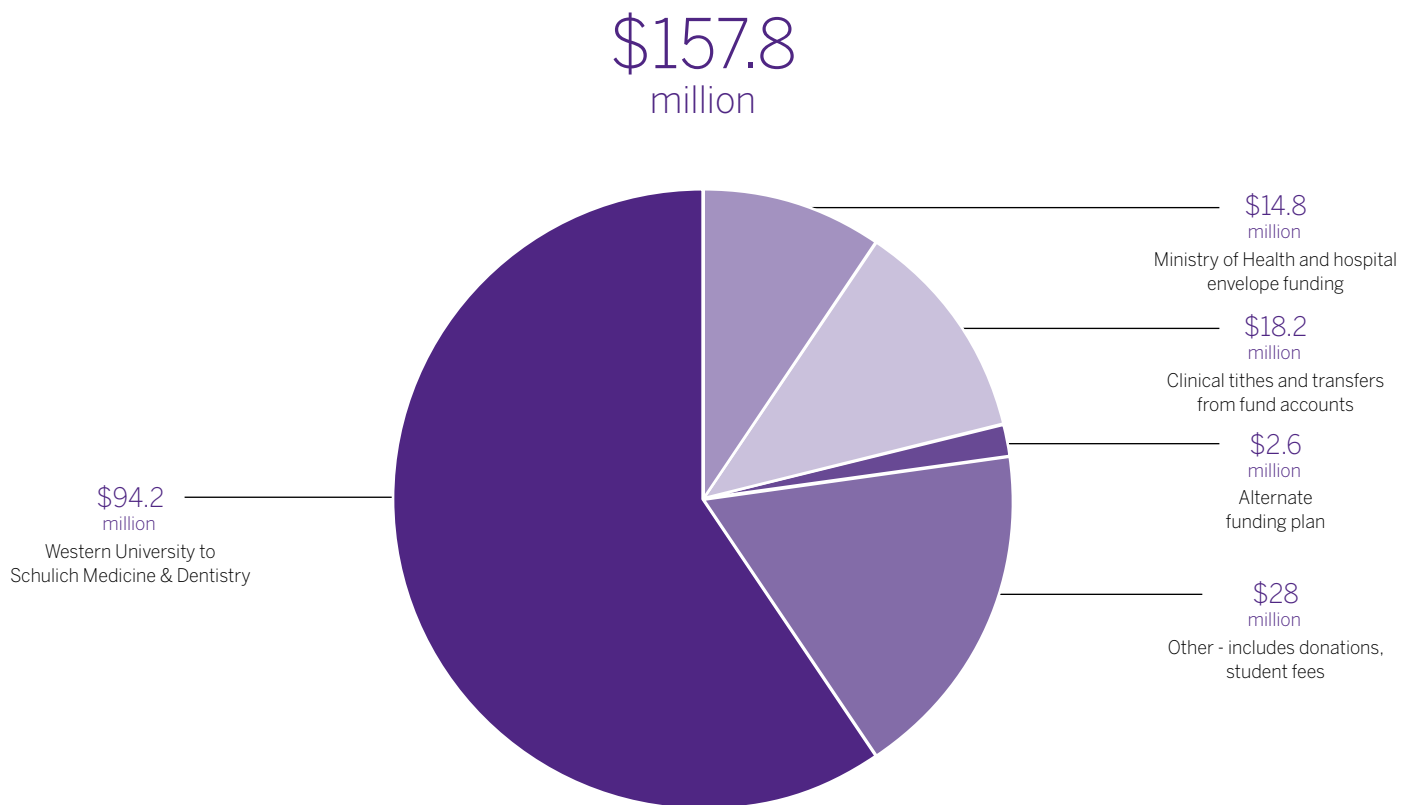
University of Windsor	2016 Square Footage
Dr. Murray O'Neil Medical Education Centre	62,100
Total	62,100

FINANCE

Total operating revenue (in millions) 2012 - 2016

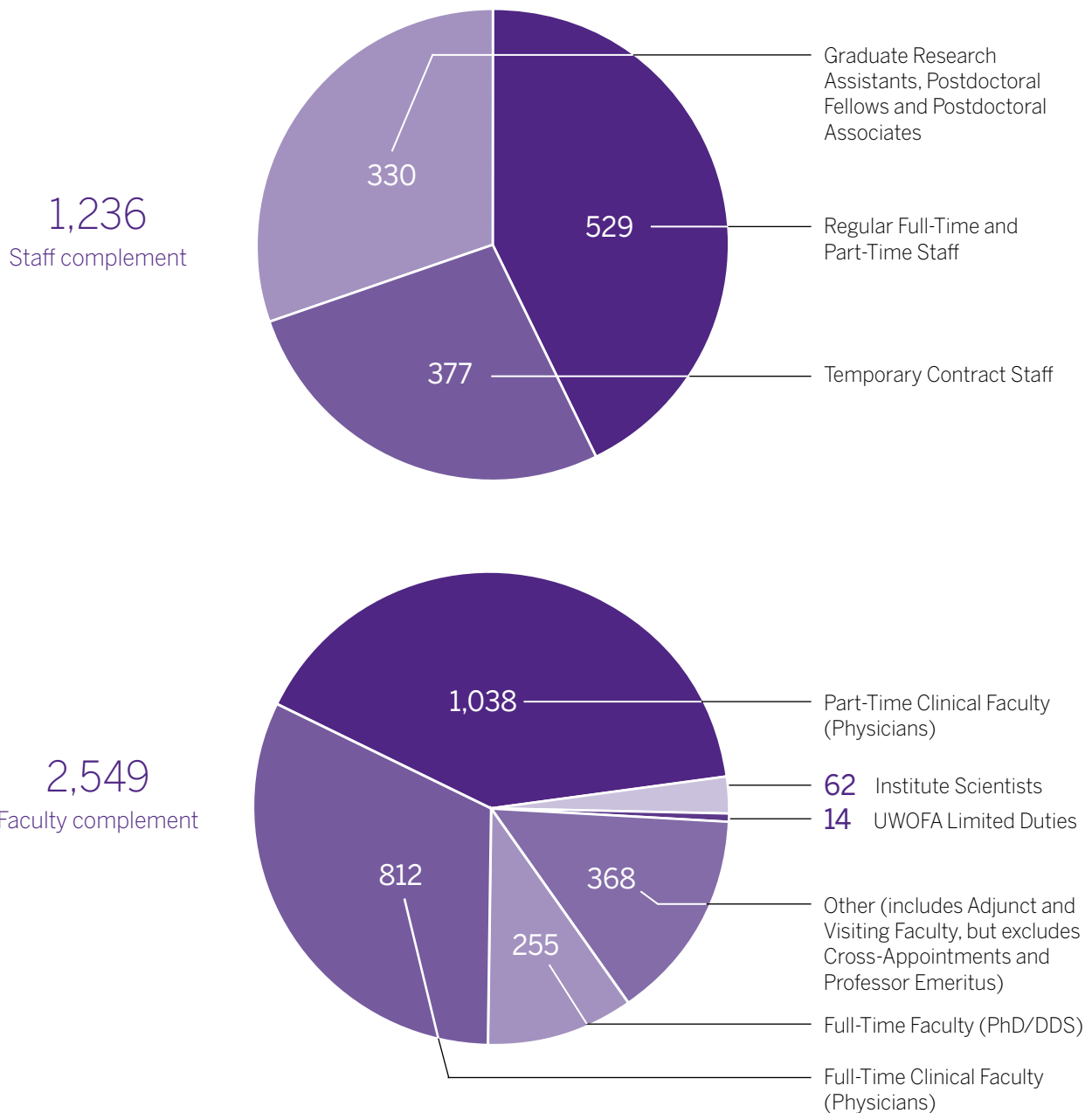


Total operating revenue 2015 - 2016



HUMAN RESOURCES

Faculty and Staff complements 2016



Leadership appointments and extensions 2016

Decanal Appointments	Appointment Duration
Dr. Bertha Garcia, Vice Dean, Medical Education	July 1, 2016 – June 30, 2017
Dr. Doug Jones, Vice Dean, Basic Medical Sciences	July 1, 2016 – June 30, 2018
Dr. Robert Stein, Associate Dean, Learner Equity and Wellness	October 1, 2016 – September 30, 2019
Dr. Gary Tithecott, Associate Dean, Undergraduate Medical Education	October 1, 2016 – September 30, 2021

Decanal Extensions	Appointment Duration
Dr. Gerry Cooper, Associate Dean, Windsor Campus	September 1, 2016 – August 31, 2018

Chair Appointments	Appointment Duration
Dr. Jefferson Frisbee, Medical Biophysics	July 1, 2016 – June 30, 2021
Dr. Saverio Stranges, Epidemiology and Biostatistics	October 1, 2016 – September 30, 2021

Chair Extensions	Appointment Duration
Dr. Kem Rogers, Anatomy and Cell Biology	July 30, 2016 – June 30, 2017
Dr. Jane Rylett, Physiology and Pharmacology	July 1, 2016 – June 30, 2017
Dr. Guangyong Zou, Epidemiology and Biostatistics	September 1, 2016 – September 30, 2016

Chair/Chief Appointments	Appointment Duration
Dr. Michael Motolko, Ophthalmology	December 1, 2016 – November 30, 2021
Dr. Subrata Chakrabarti , Pathology and Laboratory Medicine	October 1, 2016 – August 31, 2021
Dr. Emil Schemitsch, Surgery	January 1, 2016 –December 31, 2021
Chair/Chief Extensions	Appointment Duration
Dr. Andrea Lum, Medical Imaging	January 1, 2016 – December 31, 2016
Dr. Davy Cheng, Anesthesia & Perioperative Medicine	July 1, 2016 – June 30, 2017
Dr. Stephen Wetmore, Family Medicine	September 1, 2016 – August 31, 2017
Dr. John Yoo, Otolaryngology – Head & Neck Surgery	July 1, 2016 – June 30, 2018
Dr. Guido Filler, Paediatrics	July 1, 2016 – September 30, 2016
Chair/Chief Interim Appointments	Appointment Duration
Dr. Michael Rieder, Paediatrics	October 1, 2016 – June 30, 2018
Dr. Jeffery Riess, Psychiatry	January 1, 2017 – December 31, 2017

Current Endowed Chairs	Incumbent
Beryl & Richard Ivey Chair in Rehabilitation & Geriatric Care	Dr. Rob Petrella
Canadian Diabetes Association Chair in Diabetes Management	Dr. Stewart Harris
Dr. Joseph Rea Chair in Mood Disorders	Dr. Elizabeth Osuch
Dr. Sandy Kirkley Chair in Musculoskeletal Research	Dr. David Holdsworth
Earl Russell Chair in Pain Management	Dr. Dwight Moulin
G.S.K. Chair in Paediatric Clinical Pharmacology	Dr. Michael Rieder
Graham King Musculoskeletal Research Chair	Dr. Jim Johnson
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
Jacob J. Wolfe-Distinguished Medical Research Chair in Human Gene Function	Dr. Robert Hegele
Provincial Endowed Academic Chair in Autism	Dr. Julio Martinez-Trujillo
Richard & Beryl Ivey Chair in Clinical Neurological Sciences	Dr. Paul Cooper
Richard Ivey Chair of Medicine	Dr. James Calvin
Richard Ivey Chair of Surgery	Dr. Emil Schemitsch
Tanna Schulich Chair in Neurosciences & Mental Health	Dr. Peter Williamson



RESEARCH



RESEARCH

- The University's BrainsCAN initiative received a \$66 million investment from the Canada First Research Excellence Fund (CFREF) – the largest research grant in the University's history. It provided a major boost to the ongoing research in cognitive neuroscience and imaging at Schulich Medicine & Dentistry and Robarts Research Institute, as well as the Brain & Mind Institute, and the faculties of Social Science, Science, Health Sciences, Engineering, Arts & Humanities, and the Ivey Business School at Western. BrainsCAN's goal is to reduce the burden of brain disorders, which affect nearly 3.6 million Canadians, diminishing quality of life and creating an enormous burden on society and the health care system.
- Gregor Reid, PhD, one of the world's foremost experts on probiotics, in his work with a program called "Fermented Food for Life", received a \$1.45 million grant from the Canadian International Food Security Research Fund. The funding supports distribution of one gram sachets containing probiotic *Lactobacillus rhamnosus* GR-1 bacteria and a unique *Streptococcus thermophilus* strain in Tanzania, Uganda and Kenya. When added to milk, each sachet can produce 100 litres of yogurt and provide income for local producers, as they can be sold for \$0.50 each. The yogurt produced in the sachets is the same as that pioneered by the Western Heads East "Yogurt Mamas" program. Probiotic yogurt contains more nutrients than regular milk, and is a nutritious option for malnourished people. It is also beneficial for the prevention and treatment of diarrhea, the main cause of death and illness in children in Africa, and a serious condition for people living with HIV-AIDS. The program has the potential to reach one million people.
- David Cechetto, PhD, has been training front-line health care workers in Rwanda and Burundi to treat the most common causes of infant and maternal mortality for nearly two decades. Through his work as the director of Training, Support and Access Model for Maternal Newborn and Child Health, he received a grant of \$8.9 million from Global Affairs Canada. He will lead a team from Schulich Medicine & Dentistry that will work with partners on the ground in Rwanda and Burundi to develop training, mentoring and access programs for health care providers. Through the program, health care providers will receive training on how to assess and treat common and critical health care factors directly tied to maternal and child health outcomes, such as hemorrhage, hypertension, preeclampsia, eclampsia, sepsis, existing disease (i.e. malaria, HIV, anemia), infant infection, and poor nutrition.
- Researchers at Schulich Medicine & Dentistry were awarded nearly \$30 million in funding from the Canadian Institutes for Health Research. More than half of that funding was awarded to five projects through CIHR's new foundation grants designed to provide long-term support for the pursuit of innovative, high-impact programs. The programs included:
 - **\$3.2 million for the Dynamic Imaging of the Musculoskeletal System** project, led by David Holdsworth, PhD, which will be used to develop new types of biomedical imaging systems to monitor the musculoskeletal system and all of its intricately connected parts during activity.
 - **\$5.3 million for the Living Kidney Donation: Improving Safety, Access and Outcomes** project, which is being led by Dr. Amit Garg. The grant will be used to investigate identified barriers to living donor kidney transplantation in order to create real-world solutions that will improve the experiences and outcomes of donors and their recipients.
 - **\$2.5 million for the Ultra-high Field Magnetic Resonance Imaging of Brain Structure and Function of Multiple Sclerosis** project, which is being led by Ravi Menon, PhD. The project will develop and use magnetic resonance imaging methods to inform decisions about drug timing and dosage for multiple sclerosis patients by measuring biomarkers of the disease.
 - **\$2.5 million for the Muscarinic Cholinergic Modulation of Cognition in Primates** project, which is being led by Stefan Everling, PhD. He and his team are investigating the changes in normal cognition in schizophrenia and testing new drug treatments that may improve these cognitive changes.
 - **\$1.3 million for the Feature Extraction in the Tactile Periphery: from Basic Neural Mechanisms to Better Treatments for Nerve Injury** project. Andrew Pruszynski, PhD, and his team are working to improve the lives of people with sensorimotor dysfunction by transforming our basic understanding of the role the peripheral nervous system plays in sensorimotor processing.

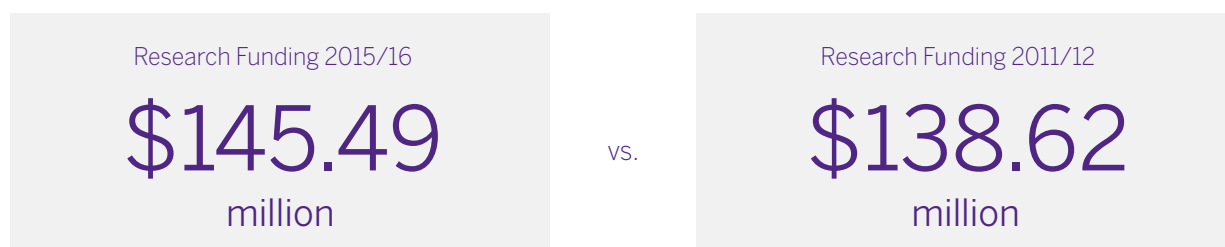
ROBARTS RESEARCH INSTITUTE

- The Illumina NextSeq 500 sequencer, which is now located in the London Regional Genomics Centre, processed its first research exomes. This methodology is a game-changer for genomic analyses in London, having already proven its value for discovery-based health research and clinical diagnoses. Since being installed, Dr. Robert Hegele's lab has analyzed 18 whole exome sequences from patients with rare diseases that could not be diagnosed using older methods. With the NextSeq, more than half these patients now have provisional diagnoses, with the rest currently being analysed. With a growing awareness that this technology is now available at Robarts Research Institute, the demand for exomes, genomes and transcriptomes is building, with huge quantities of high-quality data generated for local and international researchers.
- This year Robarts Research Institute celebrated 30 years of innovative health research since its opening in 1986. The anniversary provided an opportunity to reflect upon the many research milestones achieved by the dedicated team of scientists, trainees and staff. From founder Dr. Henry Barnett's ground-breaking work on the use of aspirin therapy for stroke prevention, to cutting-edge analyses using advanced imaging technologies, Robarts Research Institute remains a one-of-a-kind health research institute.
- The inaugural John P. Robarts Award was presented to Sarah Svenningsen, PhD, a researcher in the area of chronic lung disease. This award, endowed by the friends and colleagues of John P. Robarts, recognizes outstanding postdoctoral fellows and provides funding to allow them to disseminate their research findings at a peer-reviewed international conference. Svenningsen serves as an example of the incredible trainees who propel the mission of Robarts forward with their dedication and love of science.

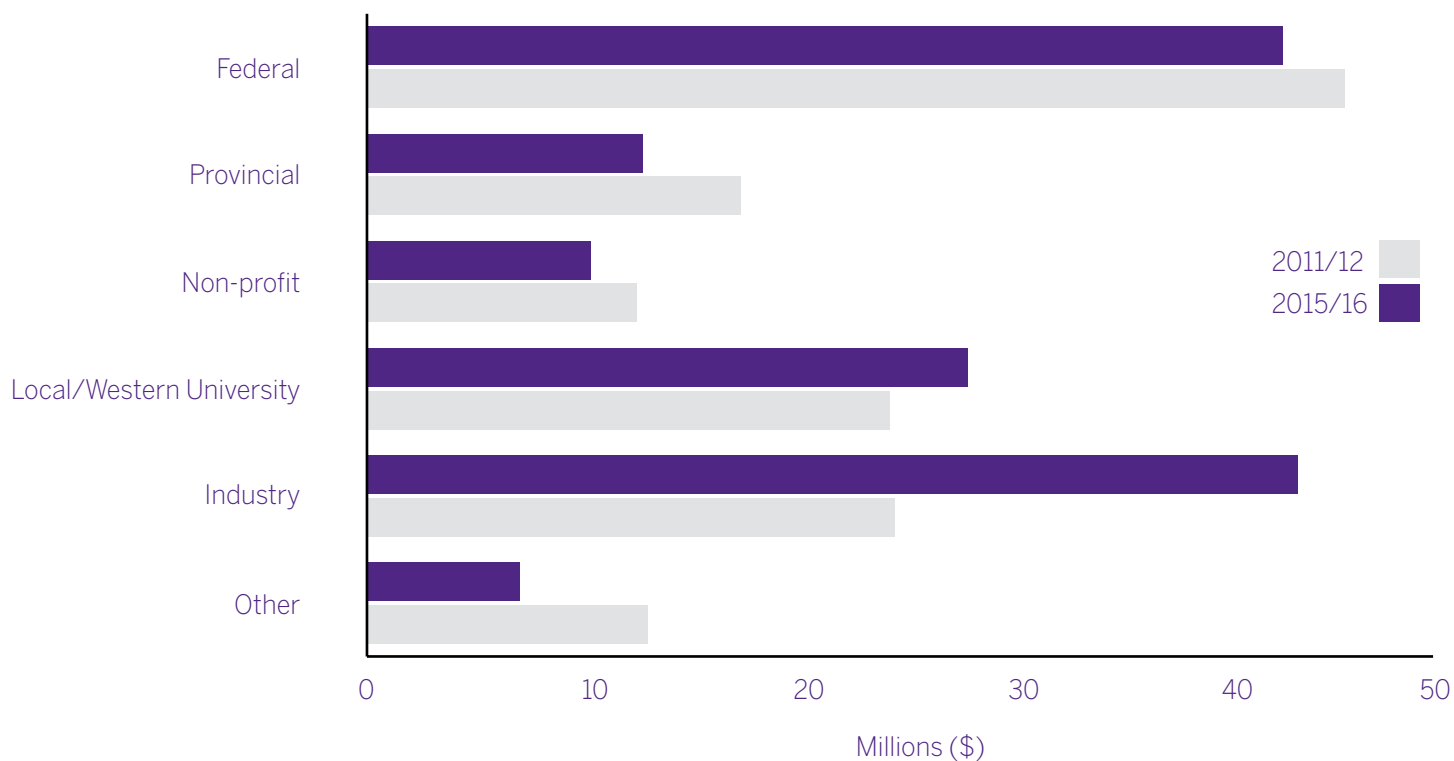
CANADA RESEARCH CHAIRS

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
Dr. Brian W. Gilbert Canada Research Chair in Primary Health Care	Dr. Moira Stewart	1
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
Neurodegeneration and Repair	Dr. Sean Cregan	2
Neuroepigenetics	Dr. Jamie Kramer	2
Oncology	Dr. Ann Chambers	1
Sensorimotor Neuroscience	Dr. Andrew Pruszynski	2
Structural Neurobiology	Dr. Gary S. Shaw	1
Translational Magnetic Resonance Imaging	Dr. Charles McKenzie	2

Research funding 2011-2012 vs. 2015-2016



Research funding breakdown 2011-2012 vs. 2015-2016



AWARDS





AWARDS RECEIVED BY ALUMNI, FACULTY, STAFF & STUDENTS

INTERNAL AWARDS 2016

Awards of Excellence	Recipient
Schulich Excellence in Education Awards for Undergraduate Education	
Schulich Educator Award	Dr. Eric Wong
Schulich Educator Award	Dr. Stephen Lomber
Schulich Excellence in Education Awards for Graduate/Postgraduate Education	
Distinguished Leader	Dr. Douglas Ross
Schulich Leader Award	Dr. Chris Watling
Schulich Educator Award	Dr. Greta Bauer
Schulich Educator Award	Dr. Aaron Ward
Schulich Educator Award	Dr. Amardeep Thind
Dean's Awards of Excellence for Faculty	
Multiple Areas	Dr. Susanne Schmid
Research	Dr. Shawn Li
Research	Dr. Stefan Everling
Junior Faculty	Dr. Anthony Nichols
Junior Faculty	Dr. Shawn Whitehead
Lifetime Achievement Award	Dr. Anthony Jevnikar
Team Award	UME Accreditation Team: <ul style="list-style-type: none"> • Dr. Shannon Venance • Matthew Longstaffe • Susan Paroutis • Dr. Teresa VanDeven • Matt Wannan
Schulich Award for Excellence for Faculty in Distributed Sites	Dr. Tom Haffner

Awards of Excellence for Staff

Staff Award

Staff Award

Staff Award

Staff Award

Team Award

Becky Bannerman

Cheryl Ewanski

Lois Hayter

Pam Bere

Clinical Skills Learning Program Team

- Justin Quesnelle
- Jane Graham
- Alison Challis
- Stephanie Desarmeau

Dr. Julie Hukui

Dr. John D. Brown Memorial Award

Awards of Excellence Recipients - Windsor Campus

Associate Dean's Award of Excellence in Medical Education

Associate Dean's Award of Excellence in Medical Education

Associate Dean's Award of Excellence in Medical Education

Educators' Award of Excellence in Medical Education

Educators' Award of Excellence in Medical Education

Educators' Award of Excellence in Medical Education

Learner Peer Award for Excellence in Medical Education

Learner Peer Award for Excellence in Medical Education

Learner Peer Award for Excellence in Medical Education

Dr. Colin Nisbet Award for Excellence in Emergency Medicine

Windsor Sub Specialty Rotation - Faculty of the Year Award

Windsor Family Medicine - Faculty of the Year Award

Family Medicine Postgraduate Award for Academic Leadership

City of Windsor - Family Physician Award

Community for Doctors Family Physician Award

Recipient

Kylie Hamilton

Dr. Ben Ibrahim Mohamed Ali

Andreja Zebic

Dr. Paul Bradford

Dr. Heather Britten

Dr. Robin Deans

Erica Hoe

Alexandre McDougall

Dr. Brian Nhan

Michael Blaszak

Dr. Lenna Morgan

Dr. Ryan Carlini

Dr. Wendy Kennette

Dr. Margarette Youssef

Dr. Ryan Mills

Alumni Of Distinction Awards	Recipient
Excellence in Basic Science Research Award	Dr. Geoffrey Pickering, PhD'90
Professional Achievement Award – Medicine	Dr. Jeff Blackmer, MD'95
Alumni of Distinction – Dentistry	Dr. Bruce Hill, DDS, MCID'90
Alumni of Distinction – Dentistry	Dr. Brenda Thomson, BSc'78, DDS'84
Young Alumni Award	Dr. Gabriele De Luca, MD'06
Community Service Award	Dr. Les Kalman, DDS'99
Dean's Distinguished Lecture Award	Dr. Michael Myers, MD'66
Schulich Dentistry Fall Awards	Recipient
Faculty Awards	
W.W. Wood Faculty Award	Dr. Timothy Wilson
C.Y. Lung Award	Dr. Manny Friedman
Class of 2017	
Canadian Academy of Periodontology Award	Jennifer Archibald
Dentistry Class of 1975 Scholarship	Jennifer Archibald
Schulich Dentistry Prize in Professionalism and Ethics	Jennifer Archibald
Academy of Operative Dentistry Award	Chloe Grondin
Elgin Dental Association Award in Oral Surgery	Jessica Gubernat
Association of Prosthodontists of Ontario Award	Oies Hussein
Ontario Dental Association Proficiency Award	Peter Kim
Western Faculty Association Scholarship	Vida Lam
Centennial Orthodontics and Paediatric Dentistry Award	Sara Worth
International College of Dentists Award	Sara Worth
Class of 2018	
Laura Stakiw Memorial Award	Tahir Ali
Centennial Orthodontic and Paediatric Dentistry Award	Sydney Cormier
Royal College of Dental Surgeons of Ontario Scholarship Second Year	Carolyn Karr

Dr. Donald MacLean Award in Oral Radiology	Carolyn Karr
Toronto Crown & Bridge Study Club Award	Michael Rullo
Class of 2019	
Dentistry Class of 1975 Scholarship	Alexandra Bonin
Royal College of Dental Surgeons of Ontario Dean's Award of Excellence	Brittney Leeming
Royal College of Dental Surgeons of Ontario Scholarship First Year	Thomas Proulx
General Medicine Award	Thomas Proulx
Dr. Sam Ioannidis Memorial Award	Andrei Zaharia
Toronto Crown & Bridge Study Club Award	Andrei Zaharia

Schulich Medicine & Dentistry Internal Graduate Awards	Recipient
Collip Medal Award	Sarah Svenningsen
Cobban Student Award in Heart and Stroke Research	Ramina Adam
Drs. Madge and Charles Macklin Fellowship for Teaching and Research in Medical Sciences	Sonya Van Nuland
Drs. Madge and Charles Macklin Fellowship for Publication in Medical Sciences	Tara Condos
John P. Robarts Award for Innovative Medical Research	Sarah Svenningsen
Jonathan & Joshua Memorial Graduate Scholarship (Doctoral)	Tamara Tavares
Jonathan & Joshua Memorial Graduate Scholarship (Doctoral)	Andrew Nicholson
Jonathan & Joshua Memorial Graduate Scholarship (Masters or Doctoral)	Amy Schranz
Nellie Farthing Fellowship in Medical Sciences	Kathryn Manning
Nellie Farthing Fellowship in Medical Sciences	Cason King
Nellie Farthing Fellowship in Medical Sciences	Man-Ger (Margaret) Sun
Norman E. Nixon Marie Rämö Nixon Award	Chao Gu

Dean's Research Grant Initiative	Recipient
	Dr. Neil Duggal
	Lorelei Lingard, PhD
Dr. Ed Brecevic Award for Compassionate Care	Recipient
	Dr. Tina Zhang
	Tehmina Ahmad
	Erin Wiley
Dean's Scholarship for Graduate Research	Recipient
	Teresa Nunez de Villavicencio Diaz
	Farzad Asadi Jomnani
	Yuwei Jiang
	Ashley Makela
Student Research Training Program Awards	Recipient
Dr. L DeWitt Wilcox Award	Roshan Navaratnam
Dr. Cindy Hutnik Award	Steven Wong
Horace and Clarice Wankel Memorial Award for Cardiovascular Research	Dominic LeBlanc
Dr. Glen S. Wither Award	Jake Armstrong
Western University Awards	Recipient
Long Service Award Full-Time	Magda Catani
	Linda Chapman
	Dr. Leonardo Cortese
	Dr. David Haniford
	Dr. Sahza Hatibovic-Kofman

Long Service Award Part-Time

Dr. David Holdsworth
Dr. Kang Howson-Jan
Dr. Graeme Hunter
Dr. Anthony Jevnikar
Dr. Daniel Lefcoe
Dr. Carolyn McLean
Barbara Merner
Dr. Madeleine Moussa
Dr. Terry Ponich
Dr. Kamilia Rizkalla
Dr. Lisa Shepherd
Thomas Stavraky
Dr. Karl Theakston
Dr. Antonio Vannelli
Dr. Mariela Anderson
Dr. Mark Botsford,
Dr. Gordon Campbell
Catherine Currie
Dr. Peter Fendrich
Dr. Clive Friedman
Dr. Manfred Friedman
Dr. Fabian Gorodzinsky
Dr. Bruce Hill
Dr. Michael Hornyak
Dr. Ann Jarvis-Wachner
Dr. James Jean
Dr. Gary Keyes
Nicole MacLeod

Faculty Scholars Award

Dr. John McLister
Dr. Mary Moore
Dr. Donald Munro
Dr. Don Noble
Dr. Gordon Payne
Dr. Paul Romanson
Dr. Gregory Truant
Dr. Kenneth Wright
Stefan Everling, PhD
Grace Parraga, PhD

EXTERNAL AWARDS 2016

Ontario Dental Association Service Award

Recipient

Dr. Donna Green, DDS'79
Dr. Arthur Worth, DDS'78

Ontario Dental Association Award of Merit

Recipient

Dr. Doug Beaton
Dr. Penny Campbell-Lownie
Dr. Greg Carr
Dr. Michael Hornyak
Dr. Jim Jean
Dr. Gordon Payne
Dr. Paul Romanson

Canadian Association for Medical Education Certificate of Merit Award

Recipient

Dr. Kevin Fung
Dr. Sheri-Lynn Kane
Dr. Cyrus Hsia

Provincial, National and International Awards	Recipient
American Society of Nephrology (ASN) Young Investigator Award	Dr. Amit Garg
Marty Kelman and Gilda Tanz Canadian Medical Hall of Fame Award	Amanda Sauvé
Prostate Cancer Canada and Movember Foundation Fund Rising Star Award	Hon Leong, PhD
Order of Ontario	Dr. Hugh Allen, MD'48
Canadian Fertility and Andrology Society Award of Excellence	Dr. Jeffrey Nisker
Family Medicine Researcher of the Year Award	Dr. Judith Belle Brown
Ontario Confederation of University Faculty Associations Teaching Award	Dr. Marjorie Johnson
Canadian Paediatric Society Danielle Grenier Member Recognition Award	Dr. Mark Awuku
Paediatric Academic Leadership – Clinician Investigator Award	Dr. Michael Rieder
Provincial Innovation Award - Cancer Care and Mental Health	Dr. Nicholas Power
Provincial Innovation Award - System Coordination, Guidelines and Education	Dr. Robert Gratton

SOCIAL RESPONSIBILITY



Social Responsibility 2016

Education programs, faculty, staff and students are engaged in numerous community initiatives in the city of London, Windsor and across the region. This year we are highlighting a few group projects, as well as some projects individuals have initiated or in which they have participated:

- A “Hockey Helps the Homeless” event organized by the Bachelor of Medical Sciences Student Association raised \$32,000 for London’s Youth Opportunities Unlimited organization. Jagan Sivakumaran is the student who coordinated the event.
- Eugene Wong, PhD, professor, Departments of Medical Biophysics and Oncology established the ROWE Scholar Program – a peer-tutoring program. It connects high school students who have an immediate family member battling cancer and are struggling with math and science with a Western University science student. Once connected, the tutor and student can meet for face-to-face help, or post their questions online. The program is designed to provide high school students with the assistance and mentorship they need to graduate before moving on to whatever post-secondary education they desire.
- Strong Bones, Strong Minds, Strong Muscles is comprised of a group of graduate trainees who dedicate their spare time to enrich the University and local community. Their mandate is to deliver science and research awareness, thereby “shortening the gap” between researchers and the public. There are currently three different groups involved with the community: Retiring with Strong Minds, Raising Hope through Science, and Be All U Ca-N B.
- Lindsay Katchky, an undergraduate student in the Bachelor of Medical Sciences program with dreams of pursuing dentistry, volunteers for Making Waves London. The organization provides affordable and accessible swimming lessons for children that have disabilities.
- The Community Engaged Learning Projects provide opportunities for students in the Master of Public Health Program to partner with community organizations such as the public health unit, and local hospitals and engage in critical projects centred on health and well-being.
- Betty Holme, Director of Organizational Effectiveness led the 2017 United Way Campaign at Schulich Medicine & Dentistry. Having witnessed firsthand how some Londoners must go without, Holme wanted to be sure the programs in the city supported by the United Way continue to provide necessary services. Community-mindedness has been high on Holme’s priority list for many years, and she is currently involved with the London Chamber of Commerce as a member of the Business Achievement Awards Committee, and in the past volunteered with the Fanshawe Alumni Board for six years, serving as the first female board chair. She also worked with the Ability First Coalition for nearly a decade.
- Undergraduate medical students have started taking a year-long integrative Social Medicine course concentrating on the social, cultural and economic impact of medical phenomena. The vision for this course is to provide a forum where students can authentically examine the social determinants of health; the cultural and social roots of disease and social policies, social inequalities such as gender, class, environment, ethnicity; factors affecting treatment outcomes, ethical challenges: political, legal, social and economic; and synthesizing coherent narratives that illuminate the care provided to future patients and finding new meaning with individual encounters in order to place them within a larger context.

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