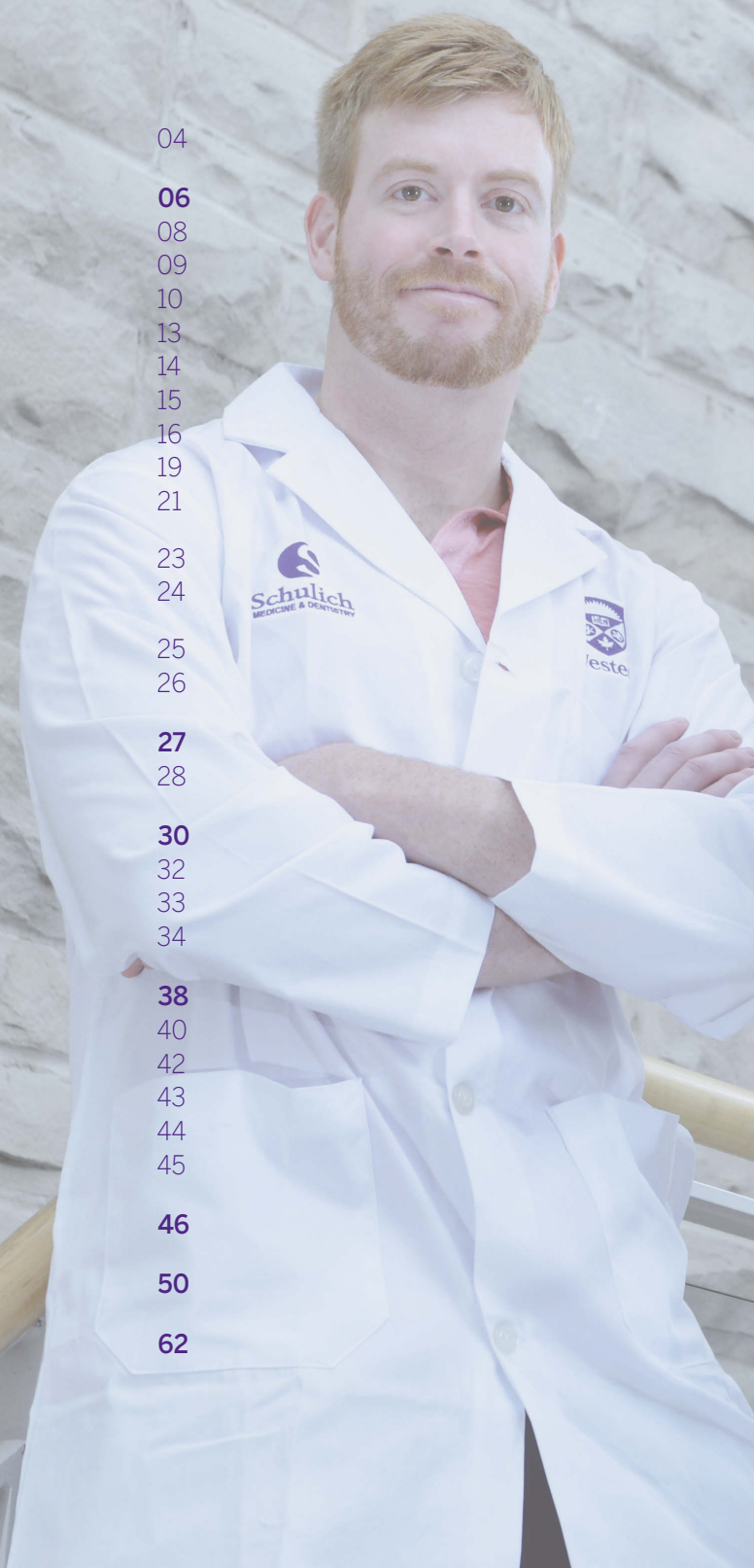


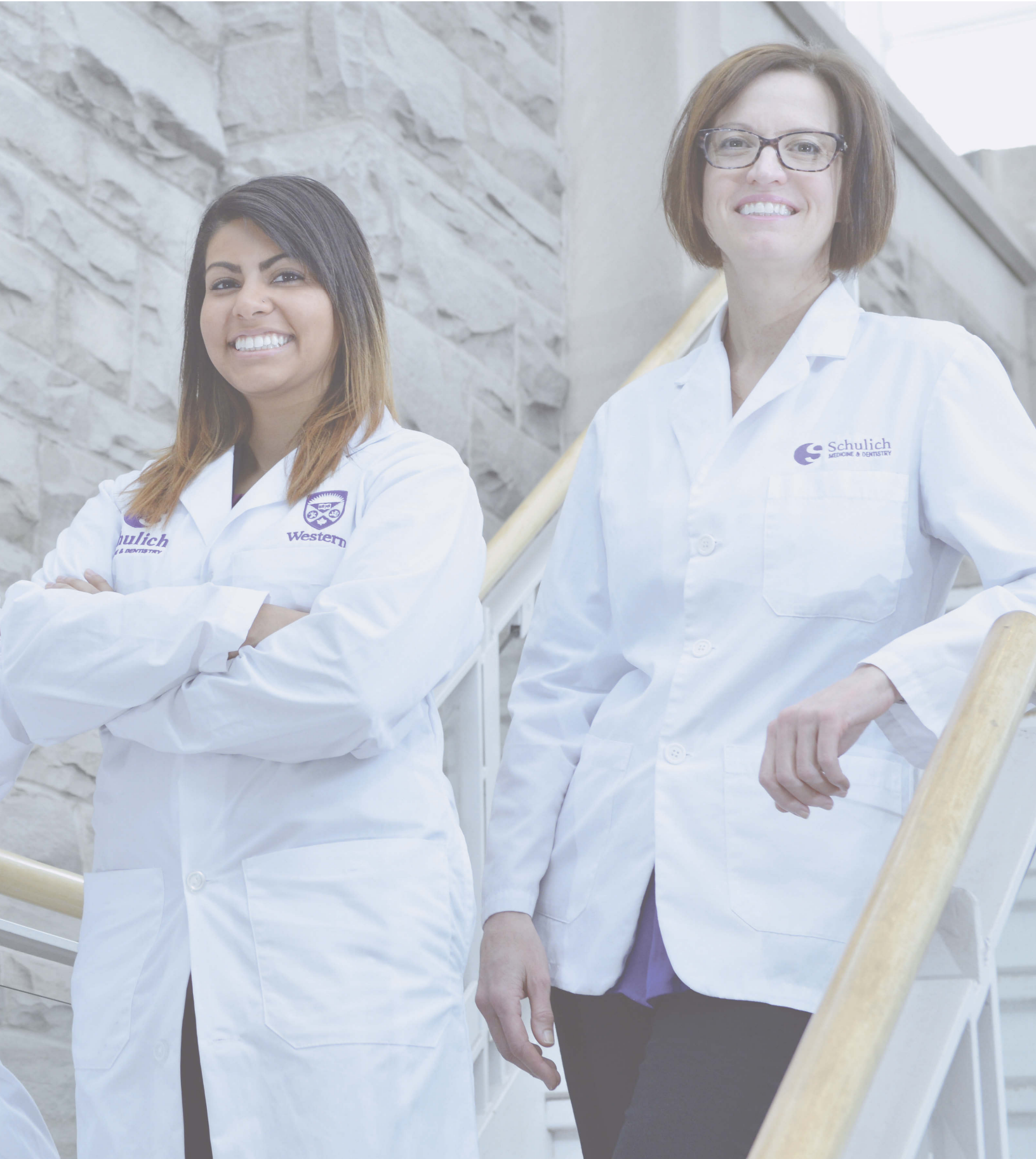
The DEAN'S REPORT

SCHULICH SCHOOL OF MEDICINE & DENTISTRY
ANNUAL PERFORMANCE REVIEW | 2015

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A MESSAGE FROM DR. MICHAEL J. STRONG



The past year has been one of tremendous achievement, renewal and celebration at the Schulich School of Medicine & Dentistry.

In April, the Undergraduate Medical Education (UME) program underwent a peer-review accreditation process. This intensive four-day review was preceded by more than two years of preparation, during which all aspects of the Schulich Medicine curriculum were reviewed. It was led by the Committee on Accreditation of Canadian Medical Schools in collaboration with the Liaison Committee for Medical Education.

We learned in October that the UME program received full accreditation status for eight years. I am proud of the eight-year accreditation status that was earned as a team effort from faculty, staff, residents, health care partners, graduates and our students through strong leadership and tireless collaboration.

While our teams in undergraduate medicine were focused on accreditation, our dentistry teams were celebrating their 50th anniversary and undertaking a major renewal, which involved a full review of all facets of our dental education program and the development of a new strategic plan.

At the same time, work was initiated on a move to digital imaging for our dental clinics and the procurement of a new Clinic/Patient Management System. Renovations also

began on a new simulation clinic. The clinic will feature sixty hybrid workstations and interactive technology which allows students to practise and receive instant feedback on their clinical skills. We look forward to the opening of the lab in September 2016.

During the past year, we welcomed Dr. Marlys Koschinsky as the new Scientific and Executive Director for Robarts Research Institute. She brings with her a reputation as one of North America's leading researchers in cardiovascular disease, as well as a wealth of leadership experience. Dr. Koschinsky will provide strategic leadership to a team of world-class scientists, enabling them to advance their work and be recognized on the world stage.

After three years of tremendous investment in our School's faculty complement which was designed to fulfill the aspirations of our strategic plan, we are now focusing our attention on a few strategic recruitments including a new Vice Dean and Director for Dentistry, as well as a number of new departmental chairs.

At the same time, we are strategically redeveloping our physical plant footprint on campus to support our research teams. Building on the strength of our microbiology and immunology research teams, and in support of Dr. Eric Arts, we initiated construction for the Imaging Pathogens for Knowledge Translation (ImPaKT) facility. It will combine state-of-the-art imaging equipment, including positron emission tomography, magnetic resonance imaging and an in vivo imaging system in a Containment Level 2+/3 facility. It will enable researchers to study some of the most invasive viruses and bacteria safely and effectively.

It's not news that research funding continues to be a challenge nationally. Our teams at the School, however, have continued to advance their outstanding work and have received significant investment for their research. Most notably, our researchers received more than \$22.5 million from the Canadian Institutes of Health Research, as announced in July. Just a few months later, two researchers received \$3.7 million through the National Institute of Health's Human Placenta Project.

As part of the School's continued commitment to the community, the third annual See the Line Symposium was held. This day brings together scientists from Schulich Medicine & Dentistry, as well as international leaders who are focused on concussion research, to present their latest findings to more than 1,000 people through daytime educational sessions. We were proud to announce a major investment of \$500,000 from the National Hockey League's Players Association (NHLPA) in support of concussion research at this event. Through this donation, the NHLPA has challenged the broader community to invest another \$2.5 million for this critical and very topical research.

In 2015, we arrived at the five-year mark in our School's 10-year strategic plan and have decided to reflect overall on our achievements to date and refresh the plan. Throughout 2016, we will be engaging faculty, staff and students in this work as we continue to strive toward the achievement of our goal to become a global leader in optimizing life-long health.

A number of exciting initiatives are already underway, and as I begin my second term as Dean, I am looking forward to sharing their successful completion during the coming years in our future reports and publications.



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

2015 AT A GLANCE

- > The Undergraduate Medical Education (UME) program underwent a peer-review accreditation process. It was successful in its review and received full accreditation status for eight years.
- > The third annual See the Line Symposium was held. A major investment of \$500,000 from the National Hockey League's Players Association in concussion research was made at this event.
- > Dr. Marlys Koschinsky joined the School as the new Scientific and Executive Director for Robarts Research Institute. Dr. Koschinsky will provide strategic leadership to a team of world-class scientists, enabling them to advance their work and be recognized on the world stage.
- > Schulich Dentistry celebrated its 50th Anniversary in 2015.
- > The School arrived at the five-year mark of its 10-year strategic plan. Throughout 2016, faculty, staff and students will be asked to reflect on the achievements to date and help refresh the overall plan.





OUTSTANDING EDUCATION

- > Program Offerings
 - Admissions
 - Undergraduate Medical Education
 - Postgraduate Medical Education
 - Distributed Education
 - Clinical Skills Learning Program
 - Dentistry
 - Internationally Trained Dentists Program
 - Combined Degree Programs /Clinical Graduate Programs
 - Bachelor of Medical Sciences/Undergraduate Neuroscience
 - Graduate Studies and Postdoctoral Affairs
 - Master of Public Health
 - Continuing Professional Development

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

Medicine (MD)
Dentistry (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

Continuing Professional Development

Continuing Medical Education
Continuing Dental Education
Faculty/Staff Development

Admissions highlights 2015

- > Successfully planned and implemented Schulich Medicine & Dentistry's inaugural integrated Medicine & Dentistry White Coat Ceremony, which received overwhelmingly positive feedback.
- > Improved academic and non-academic assessment of applicants to the Dentistry program including implementation of a new standard, non-Canadian Dental Association structured interview.
- > Communications, collation and screening of 2,473 Medicine applicants and 591 applicants for Dentistry
- > Initiated a study of barriers to admission to medicine for students of lower socioeconomic status undertaken by Schulich Medicine students and the Admissions program in 2012 which was submitted to Canadian Medical Association Journal in December 2015.

ADMISSIONS

The medicine and dentistry Admissions processes are charged with selecting individuals with the greatest aptitude in an objective, uniform, reliable and valid manner. Admissions recruits and selects students who are connected to and representative of our population. Factors are studied to ensure that processes do not contribute to a disadvantage of access to medical or dental school based on socioeconomic and cultural barriers.

Annually, the Admissions team vets applications from approximately 2,700 applicants to medicine. Transcripts are validated and MCAT scores are reviewed. Academic thresholds for interview invitations are developed for approximately 400 candidates. Interviews are conducted during two weekends, with expertise from medical faculty, medical students and lay public perspectives. Offers are coordinated according to the final ranking of candidates.

The Admissions team also receives applications and academic grades for approximately 600 applications to dentistry. Approximately 200 candidates receive invitations for interviews. Interviews are conducted during one weekend with the expertise from dentistry faculty, community dentists, dental students and lay public perspectives. Just as with medicine, the offers are coordinated according to the final ranking of candidates.

To complete the full circle of all processes in Admissions, the team organizes the first official "welcome" to the School for the incoming medicine and dentistry students and their families at the White Coat Ceremony.

UNDERGRADUATE MEDICAL EDUCATION

The Undergraduate Medical Education program curriculum is an integrated four-year program leading to a Doctor of Medicine (MD) degree. The program is designed to provide each student with the opportunity to acquire the knowledge, skills and attitudes to advance to graduate or postgraduate studies leading to clinical practice, research or other medical careers.

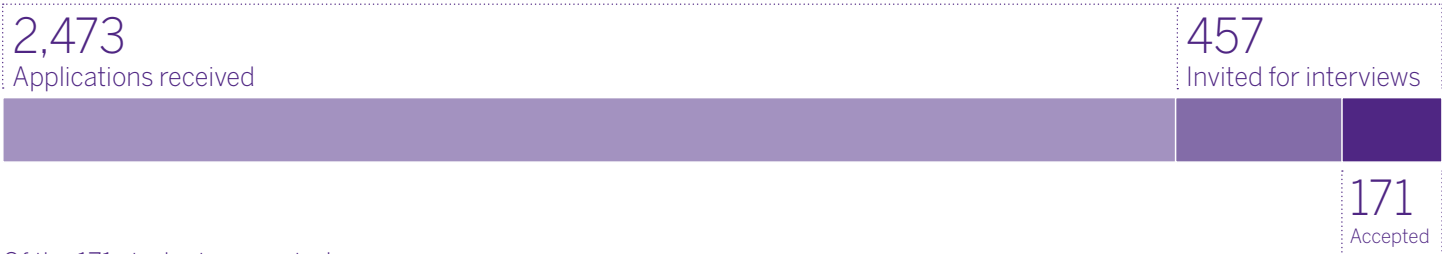
The educational format is a blend of lectures, laboratory exercises, small group learning and supervised clinical experience in community and hospital settings.

The program is delivered at two campuses in London and Windsor, and in distributed education sites throughout Southwestern Ontario.

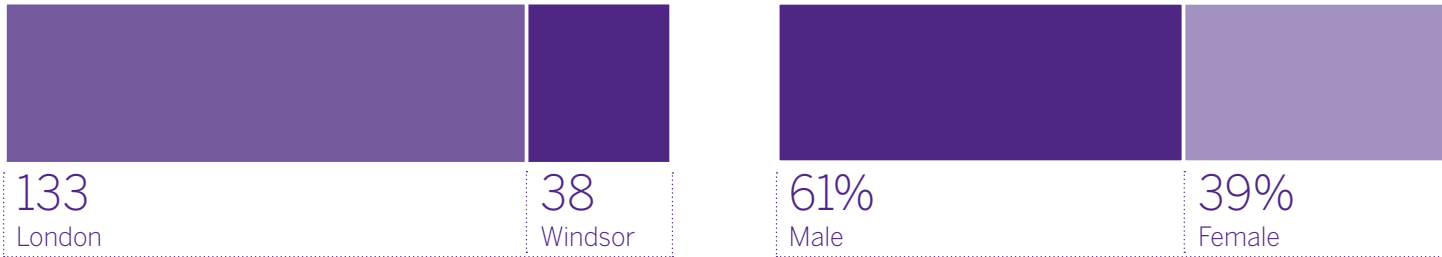
Undergraduate Medical Education highlights 2015

- The Undergraduate Medical Education Program received an eight-year accreditation status from the Committee on the Accreditation of Canadian Medical Schools and Liaison Committee on Medical Education.
- Curriculum renewal or the launch of “Curriculum 2020” is a priority for the program as the academic environment responds to diverse learning styles and evolution in health and patient care.
- The program successfully launched two major curriculum initiatives in 2015: Professional Portfolio and Service Learning.
 - The new Professional Portfolio course lays the groundwork for professional habits that enhance the development of strategies, attitudes, skills and cognitive processes essential for professional lifelong learning within the medical profession.
 - Service Learning unites academic study and community service in mutually reciprocal ways. The service includes teaching, health care, environmental projects or other activities that contribute to the well-being of the community. Students will learn the basics of community engagement at the individual and organizational level. They will be challenged to develop the skills needed to engage in authentic and effective community engagement and build reciprocal relationships with community members and organizations.
- Associate and Assistant Deans began meeting with Windsor Regional Hospital individual Department Chiefs to expand the presence in terms of learner placement and research opportunities. The result has increased rotations, communication and positive School exposure in the Windsor community.
- Schulich Medicine & Dentistry hosted the Canadian Federation of Medical Students Annual General Meeting in September 2015 in Windsor. Hosting the event in Windsor marks the first time a distributed education site was selected as a host city for the meeting. The theme of the conference was “Leadership in the Clinic and Community.”

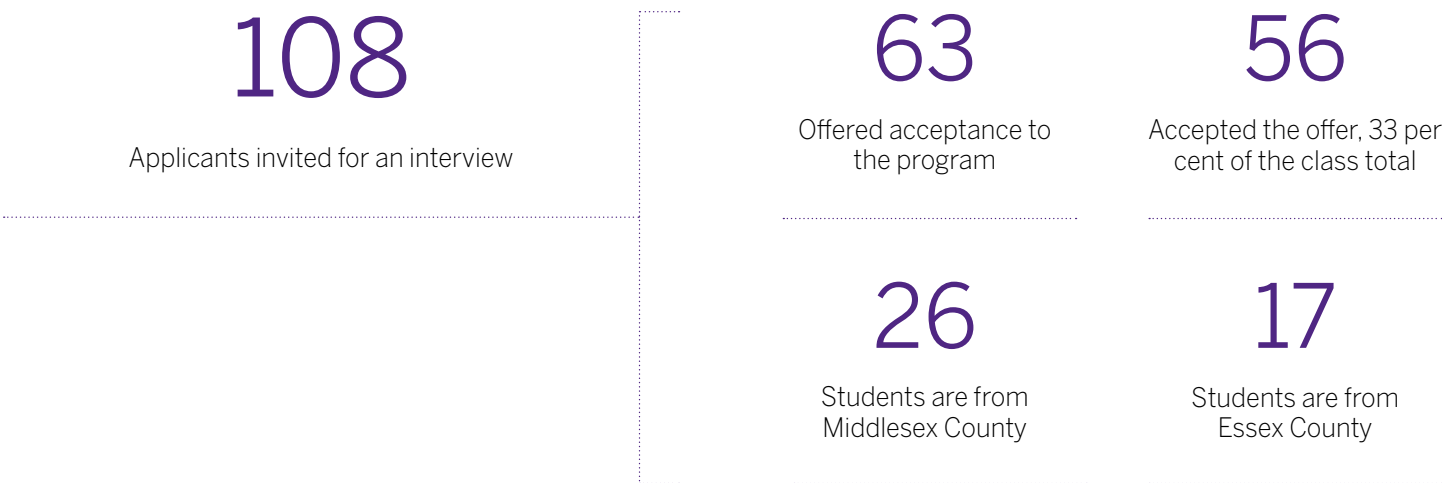
Class of 2019 profile



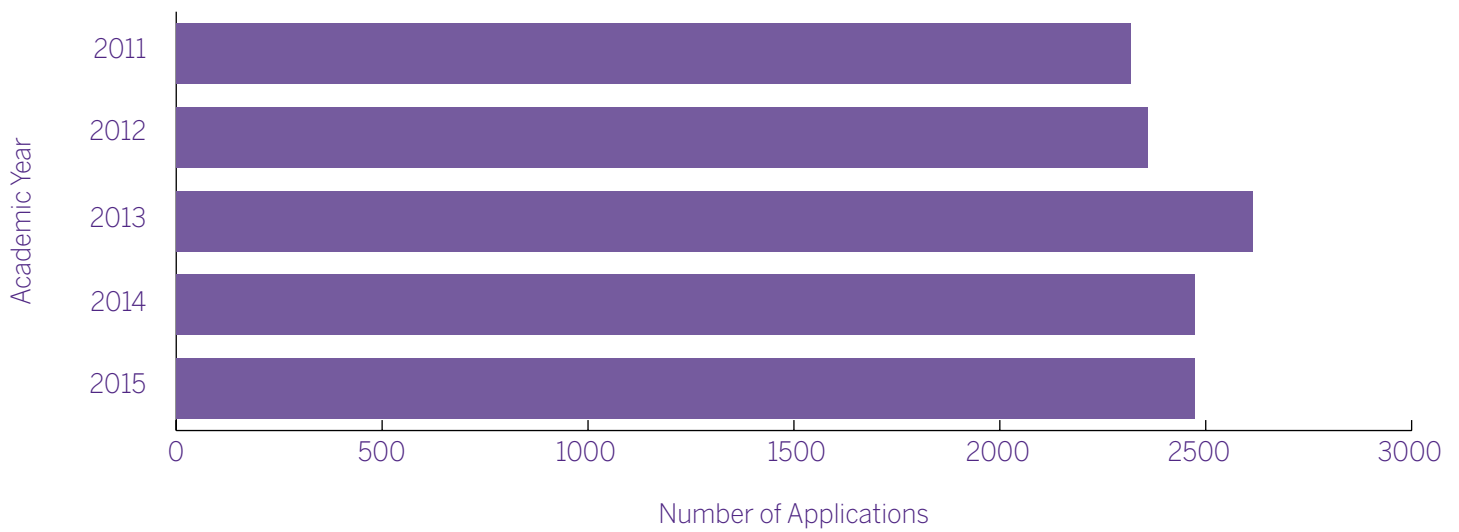
Of the 171 students accepted...



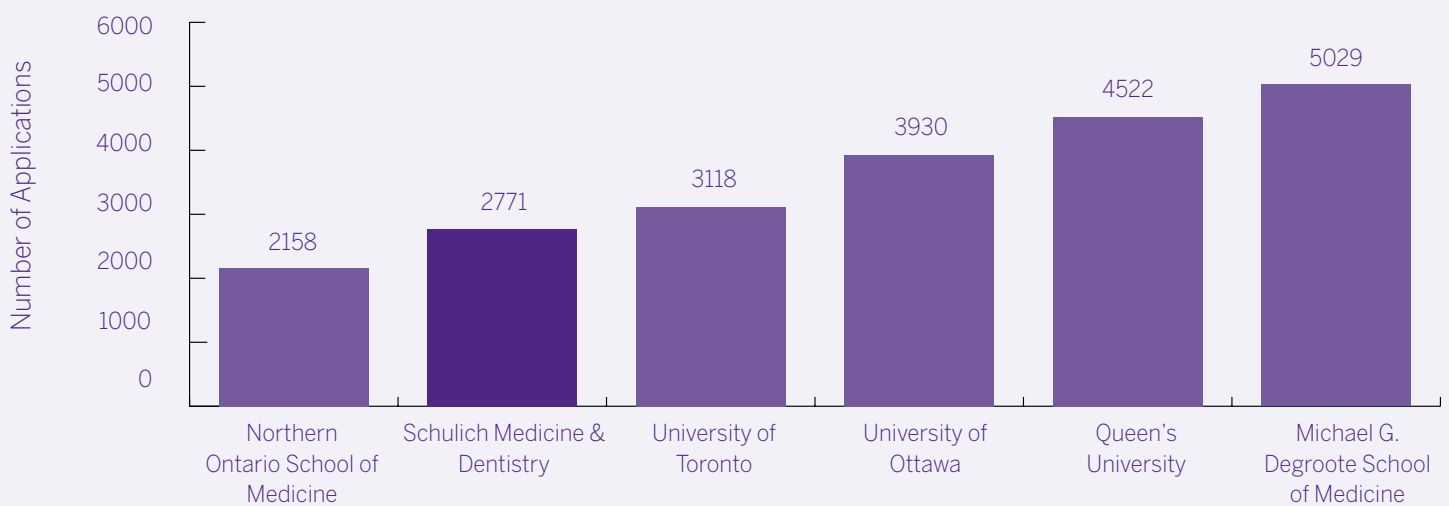
Demographics of applicants from Southwestern Ontario



Schulich Medicine applications 2011-2015



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 highlights 2015

- Developed the Director of Competency-Based Medical Education Implementation role. In this new role, Dr. Shannon Venance will work closely with residency programs, departments and the Postgraduate Medical Education office to facilitate the transition of programs into a competency-based medical education framework.
- The College of Family Physicians of Canada reviewed all aspects of Postgraduate Medical Education's Family Medicine program, including areas of Enhanced Skills and granted each program the status of "Accredited Program", though with follow-up. Family Medicine was reviewed in December 2014 while the Family Medicine Enhanced Skills program submitted a progress report in December 2014. The Family Medicine program was granted the status of "Accredited Program". The Enhanced Skills program was granted the status of "Accredited Program" with no further follow-up required.
- Six programs were reviewed by the Royal College of Physicians and Surgeons of Canada and granted the status of "Accredited New Program" (Vascular Surgery, Child and Adolescent Psychiatry, Palliative Medicine, General Internal Medicine, Pain Medicine, and Geriatric Psychiatry).

Total enrolment for 2014-2015

901

Trainees

Postgraduate Year 1 (PGY-1) CaRMS entry positions for July 2015

187

(With all positions filled)

Increase in International Trainees

15%

From 2013-2014 to 2014-2015

POSTGRADUATE MEDICAL EDUCATION

The Schulich School of Medicine & Dentistry offers 54 postgraduate medical education training programs, leading to certification either by the College of Family Physicians of Canada or by the Royal College of Physicians & Surgeons of Canada.

DISTRIBUTED EDUCATION

One of the goals in the Schulich School of Medicine & Dentistry's 10-year strategic plan "Optimizing Life-Long Health" is to position the School's distributed education models as the leading distributed medical education program in Canada.

In order to achieve this goal, the School undertook an extensive review of its current Distributed Education programs identifying strengths and opportunities for improvement, while considering the landscape of Distributed Education offerings across the region and the province, as well as the management and funding of distributed medical education to medical schools across the province.

Extensive research, analysis, engagement with leaders, physicians, and faculty from Schulich Medicine Distributed Education was undertaken. The information gathered along with a strong eye to the School's mission and vision informed the preparation of a new strategic plan for Distributed Education.

Distributed Education highlights 2015

- Six Distributed Education Academies have been identified and named: Schulich Medicine Distributed Education – Elgin-Middlesex Academy; Schulich Medicine Distributed Education – Grey-Bruce Academy; Schulich Medicine Distributed Education – Kent-Lambton Academy; Schulich Medicine Distributed Education – Huron-Perth Academy; Schulich Medicine Distributed Education – Oxford Academy; Schulich Medicine Distributed Education – Essex Academy.
- Regional Academic Directors were hired to represent the Schulich Medicine Distributed Education Academies: Kent-Lambton Academy (Chatham) - Dr. Susan Munro, family physician in Chatham; Kent-Lambton Academy (Sarnia) - Dr. Michel Haddad, critical care specialist in Sarnia; Elgin-Middlesex Academy - Dr. Rob Black, surgeon in St. Thomas; Huron-Perth Academy - Dr. Shanil Narayan, internist in Stratford; Oxford Academy - Dr. Elizabeth Urbantke, emergency medicine physician in Woodstock; Essex and Grey-Bruce Academies - to be announced.
- Core operational support was restructured. Staff positions were revised to streamline internal operations and improve efficiency for learners, faculty and community partners. Restructuring was enhanced by the creation of an organizational structure allowing the Manager greater opportunity to support the Assistant Dean, Rural & Regional Community Engagement throughout Southwestern Ontario.
- Continued work to execute on the strategic plan for Distributed Education. In progress are three stakeholder committees addressing areas of regional research, faculty affairs and community engagement and quality management.
- 36 Communities within Southwestern Ontario hosted 171 first-year medical students for Discovery Week.

Program offerings, learners and training months

Programs	# of Learners	# of Training Months
Postgraduate Training	352	674
Clerkship Training	129	489
Undergraduate Elective Training	41	51.5
Total	522	1,214.5

Clinical Skills Learning Program key statistics 2015

710

Active simulated patients (SP)

163

People on CSLP SP wait list

15,000+

SP contact hours, including
teaching and evaluation with
health care students

27

New projects/programs
undertaken in 2014-2015

The Clinical Skills Learning Program is supported by...

1,500

Faculty members

529

Undergraduate students

600+

Postgraduate residents
and fellows

250

Dental students

CSLP is a charter member of the Association of Standardized Patient
Educators.

CLINICAL SKILLS LEARNING PROGRAM

The Clinical Skills Learning Program (CSLP) is an educational resource offering learning and evaluative opportunities to undergraduate and postgraduate medical students, and to practising physicians and faculty in the Schulich School of Medicine & Dentistry, as well as to other health care providers in the community.

In addition, CSLP has established a partnership with the community of London and area in response to the growing needs and expectations of today's health care consumers. Standardized/Simulated Patients (SPs) and Volunteer Patients (VPs) are community members who are committed to bringing their wealth of life experience into the educational setting.

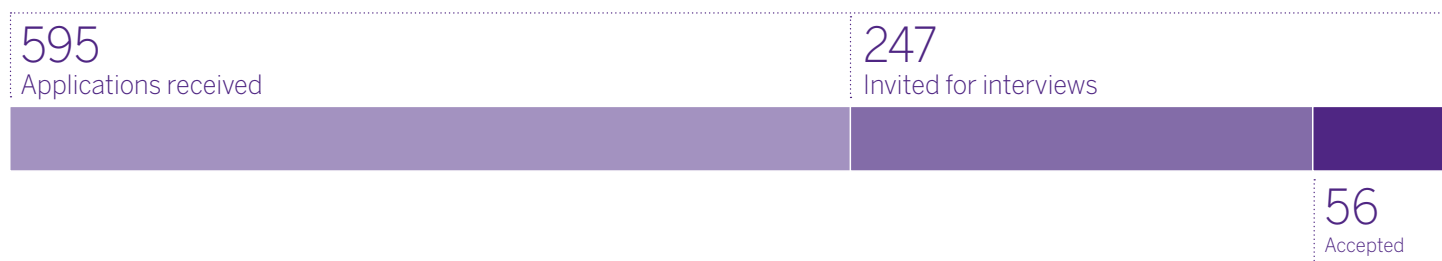
DOCTOR OF DENTAL SURGERY

Schulich Dentistry graduates 56 four-year DDS students each year. The program provides extensive patient based clinical care within the School of Dentistry and in the community.

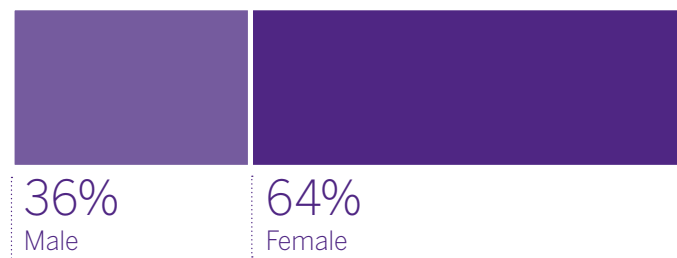
Dentistry highlights 2015

- > Schulich Dentistry has begun a process of renewal and is developing a 10-year strategic plan. Through a variety of external reviews, surveys and focus groups, five primary project areas have been identified: to build the optimum human resources capacity model and organizational structure; to re-engineer clinical dental education; to develop a technology and investment plan; to create a faculty development/preparedness plan to build skills and competencies for our full- and part-time faculty; and to develop and implement guiding standards and expectations for delivery of education, research and clinical outcomes.
- > Acquiring a PAC System to support digital imaging and a new clinic/patient management system which will transform the ability of the school to track patient care and student progress.
- > Currently reviewing and modifying the undergraduate dental student admissions criteria and process.
- > Celebrated 50th Anniversary in 2015.
- > Dr. Stanley Kogon is leading the rebuilding of simulation facilities. A new space, with new equipment and technology will be complete in September 2016. Plans for the space vacated by the old clinic include education space, office space, storage space and a student lounge. This construction will begin once the simulation activity moves into the newly constructed space.
- > The Dentistry Surgical Care Unit (formerly known as the General Anesthetic Suite) cared for its first patients and processes are being developed to allow an increase in activity and level of patient care. The primary goal is to ensure wait times for paediatric and special care patients are ultimately reduced within the London region.

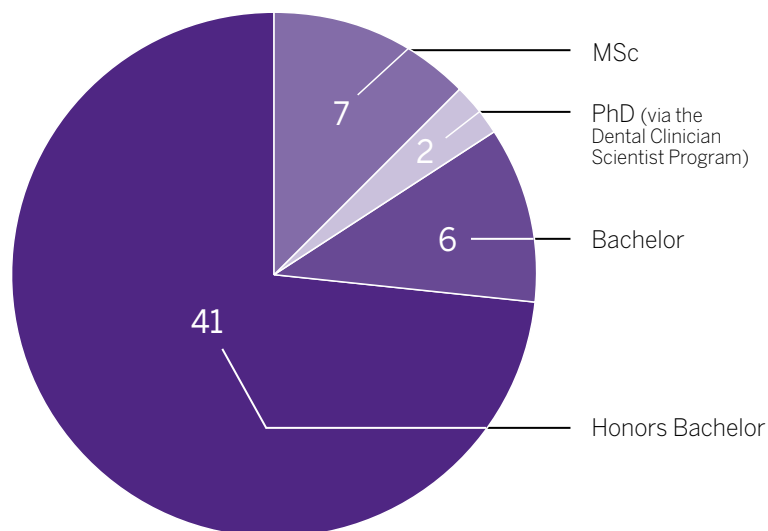
Class of 2019 profile



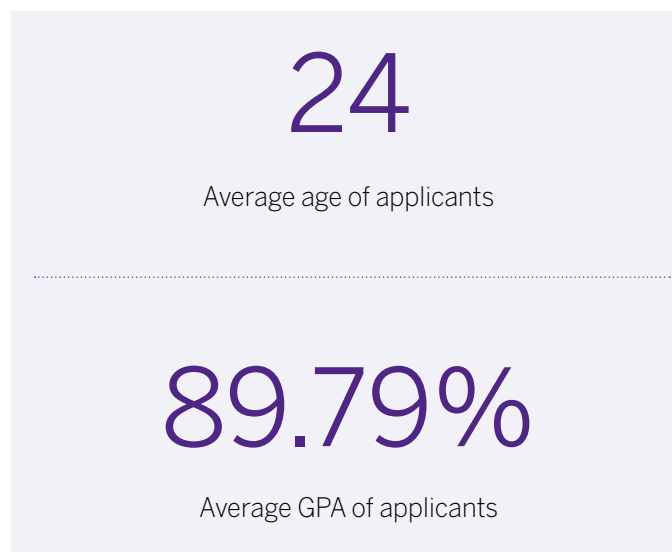
Of the 56 students accepted...



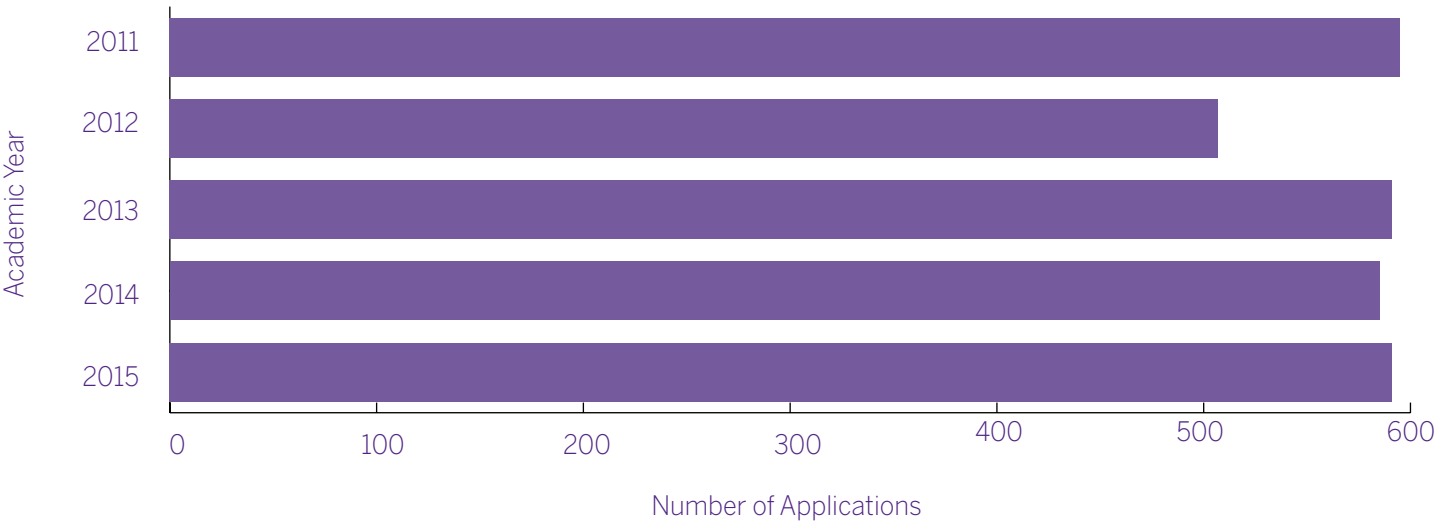
Applicant degrees



Additional applicant information



Schulich Dentistry applications 2011-2015



Internationally Trained Dentists enrolment 2008-2015

	ITD 1	ITD 2	Total
2008-2009	15	13	28
2009-2010	13	14	27
2010-2011	15	13	28
2011-2012	21	15	36
2012-2013	20	21	41
2013-2014	22	20	42
2014-2015	20	22	42
2015-2016	20	20	40

INTERNATIONALLY TRAINED DENTISTS PROGRAM

Students in the Internationally Trained Dentists (ITD) Program enter the academic year with the third-year dental students and graduate with a Doctor of Dental Surgery (DDS) degree.

There are 40 students enrolled in the Program with dental degrees graduated from the following countries: Belarus, India, Iran, Iraq, Moldova, Saudi Arabia and Ukraine.

Graduates' original degree locations since 1999



42

Total number of graduates' original
degree locations since 1999

Albania
Argentina
Armenia
Azerbaijan
Bangladesh
Belarus
Brazil
Bulgaria
China
Colombia
Croatia

Dominican Republic
Egypt
El Salvador
Germany
Hungary
India
Iran
Iraq
Japan
Jordan
Kenya

Kyrgyzstan
Malta
Moldova
Nigeria
Pakistan
Peru
Philippines
Poland
Romania
Russia
Saudi Arabia

Slovakia
Sri Lanka
Sudan
Syria
Turkey
United Arab Emirates
Ukraine
Venezuela
Former Yugoslavia

BACHELOR OF MEDICAL SCIENCES PROGRAM/ UNDERGRADUATE PROGRAM IN NEUROSCIENCE

Bachelor of Medical Sciences and Undergraduate Program in Neuroscience highlights 2015

- New Courses were introduced in Microbiology and Immunology, Epidemiology and Biostatistics, Medical Sciences and Pharmacology.
- New modules were introduced including: Honors Specialization in Microbiology and Immunology with Pathology; Major in Epidemiology and Biostatistics.
- Degrees were conferred upon the first graduates with a BSc Honors Specialization in Neuroscience. Career choices included Graduate Studies and Medicine.
- Brandon Budhram was awarded one of three Governor General's Silver Medal for achieving the highest cumulative average for all graduates at Spring 2015 Convocation.
- An Instructional Innovation and Development Fund rat simulation was produced for inclusion in Medical Sciences 4900F/G, the capstone laboratory course in the Honors Specialization in Interdisciplinary Medical Sciences.

The Bachelor of Medical Sciences (BMSc) Program was introduced in 2001. The program offers several modular options for students interested in studying the basic medical science disciplines at an advanced level.

Students entering the Faculty of Science via Medical Sciences First Entry are offered assured entry into Year 3 of the BMSc Program, provided certain academic conditions are met in first and second year.

Medical Sciences First Entry boasted the highest admission average for all programs offered at Western University. The entering average for students admitted to first year in Science in 2015-2016 was 88.2 per cent. The entering average for students admitted to first year Medical Sciences was 92 per cent.

The Undergraduate Program in Neuroscience provides training in neuroscience with an emphasis on its diversity of questions, approaches and methods, critical evaluation of current research, and opportunities for research experience in the senior year of the program.

The Honors Specialization in Neuroscience leads to a Bachelor of Science Honors degree granted by the Schulich School of Medicine & Dentistry. Admission begins in second year, with the majority of students coming from first year Medical Sciences. The admission average for 2015-2016 was 86.3 per cent.

Bachelor of Medical Sciences total enrolment 2011-2015

	Year 3	Year 4	Total
2011-2012	369	341	710
2012-2013	428	374	802
2013-2014	444	405	849
2014-2015	439	446	885
2015-2016	421	426	847

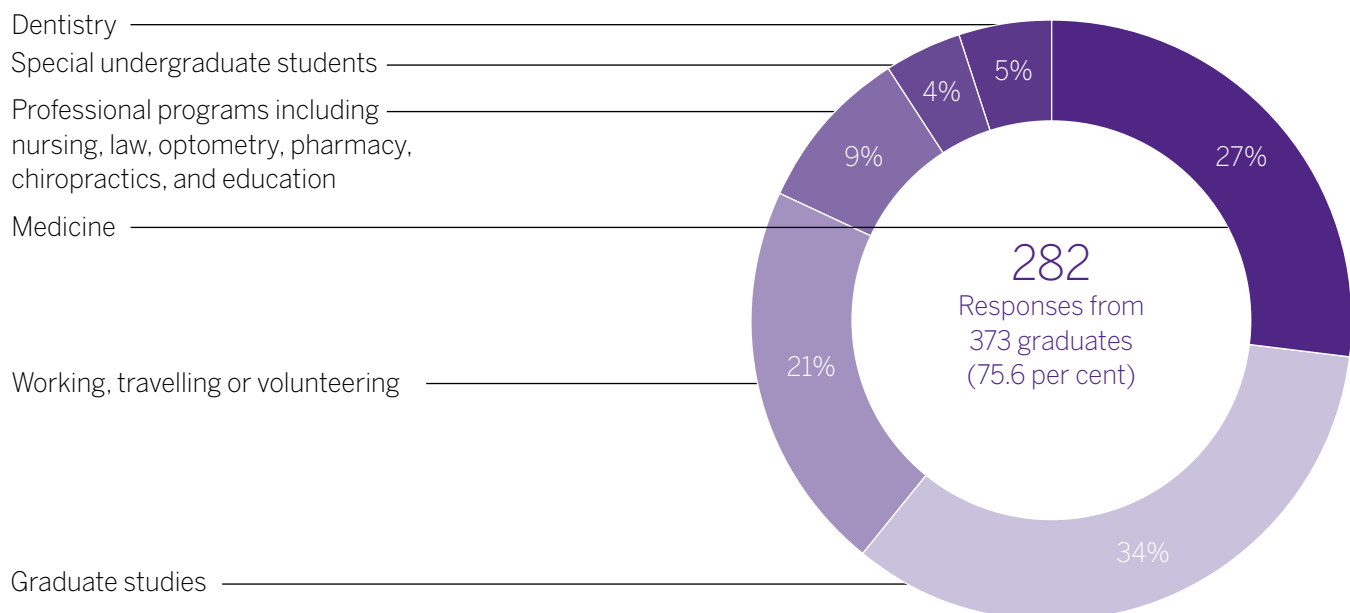
The entering average for students admitted to Year 1 in Science in 2015-2016 was 88.2%. The entering average for students admitted to Year 1 Medical Sciences was 92.0%

Undergraduate Neuroscience total enrolment 2012-2015

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

Admission to Neuroscience begins in Year 2, with the majority of students coming from Year 1 Medical Sciences. The admission average for 2015-2016 was 86.3%.

Bachelor of Medical Sciences and Undergraduate Neuroscience Class of 2015 career survey



Graduate Studies and Postdoctoral Affairs highlights 2015

- A new Dean's Undergraduate Research Opportunities Program (DUROP) was established to fund 50 per cent of the summer stipend for 20 undergraduates, enabling them to obtain early research skills and experiences prior to applying for graduate school.
- Schulich Medicine & Dentistry led the development of a voluntary postdoctoral mentorship program across campus.
- In September 2015, Graduate Studies and Postdoctoral Affairs held the very first "Milestone" orientation event for the introduction to Biomedical Sciences graduate forum where 220 new graduate students attended to learn about available resources and the ethical and professional components of a graduate program.

690

Trainees total

107

Postdoctoral Scholars

Basic Medical Sciences

328

Full-time MSc students

208

Full-time PhD students

Orthodontics

9

Full-time MCID students

Neuroscience

23

Full-time MSc students

15

Full-time PhD students

GRADUATE STUDIES AND POSTDOCTORAL AFFAIRS

Graduate and Postdoctoral Studies represents a diverse range of nearly 700 trainees who are in Master's or PhD level studies in 18 distinct graduate program offerings.

The various disciplines span the full spectrum for health care system needs from population-based studies to clinical trials and from basic research to advancements in educational and instructional practice.

COMBINED DEGREE PROGRAMS/ CLINICAL GRADUATE PROGRAMS

Combined Degree Programs

BMSc/HBA combined degree

- A five-year program offered jointly by the Faculty of Science, the Schulich School of Medicine & Dentistry and the Richard Ivey School of Business. Students graduate with two honors degrees (BMSc and HBA).
- Nine students graduated in June 2015. Graduates are pursuing careers in Accountancy, Management Consulting and Investment Banking.

Dental Clinician Scientist (DCS) combined degree

- A joint-degree program (DDS/PhD) for students interested in careers in dental research or academic dentistry. The DCS program consists of a PhD degree in an area of research relevant to dentistry, followed by a Doctor of Dental Surgery (DDS) degree.
- Students while in the DDS program are expected to maintain an active involvement with research (i.e. Dentistry Summer Research Program).
- One student successfully defended her PhD thesis in 2015, and is in the DDS Class of 2019.
- There are three students registered in the combined program in 2014-2015.

PhD Medical Biophysics Clinical MSc CAMPEP combined degree

- The combined PhD-MCISc within the graduate program of the Department of Medical Biophysics is accredited internationally by the Commission on Accreditation of Medical Physics Education Programs (CAMPEP).
- The program has grown to 24 trainees, all of whom are undertaking medical imaging and medical physics research and the professional training required to achieve competencies specified by CAMPEP.
- Three recent graduates were recruited to positions in Canada as Assistant Professors and/or Medical Physicists.

Clinical Graduate Programs

Graduate program in Orthodontics (MCID)

- One of the six orthodontic specialty programs in Canada.
- Admission to the Graduate Orthodontic Program is competitive, a total of three candidates are accepted each year.

Master of Public Health highlights 2015

- Launched the inaugural Western Public Health Casebook 2015. The casebook is a collection of student written cases from the Class of 2014. It is a free publication available online to help advance the case-method pedagogy in public health education.
- The MPH Program is an applicant for accreditation by the Council on Education for Public Health. A site visit is scheduled for Spring 2016 with a decision expected in Fall 2016.

Class of 2014 employment rates

12 months post-graduation

95%

of the class is employed or pursuing more education

4 months post-graduation

60%

of the class is employed or pursuing more education

MASTER OF PUBLIC HEALTH

The Master of Public Health (MPH) Program is a full-time, 12-month program employing the case-method of learning. With real public health issues as the foundation of their learning, students are immersed in some of the most significant and complex public health crises that our country and globe have experienced. Students have the opportunity to apply their previous experience to discuss a wide range of views and practices while gaining the knowledge and skills to lead in an ever-changing and increasingly challenging public health landscape.

The MPH Program is an interdisciplinary, interfaculty program with the support of the following faculties: Health Sciences, Law, Science and Social Science, as well as Brescia University College.

The program prepares students to address main public health challenges in Canada and abroad, thus opening avenues and opportunities for the students to serve not just in their local communities, but also contribute and lead in national and global public health initiatives as the change agents.

CONTINUING PROFESSIONAL DEVELOPMENT

Continuing Professional Development (CPD) functions as an integral component of the education portfolio within the Schulich School of Medicine & Dentistry.

The unit provides Continuing Medical Education workshops and online courses for practising physicians, as well as developmental workshops for faculty and staff. CPD also administers a number of annual awards to enhance the teaching, research and administrative skills of faculty.

CDE offers a variety of programs for general practitioners, specialists, hygienists and auxiliary, in addition to upgrading programs for foreign dentists, off-shore programs, and custom programs designed and delivered for study clubs or dental societies, in their own community. This range of programming is available to more than 20,000 dentists across Canada and the Northern United States.

Continuing Professional Development highlights 2015

- CPD continues to offer a number of workshops that can be taken toward the Faculty Development Teaching Certificate, and is currently developing support for a new research-led faculty development framework which has been designed to align with the School's strategic plan and international teaching standards. The framework includes credit bearing and non-credit bearing courses leading to certificates, postgraduate diplomas, and a potential masters-level degree program.
- Support was received to augment CPD's human resources capacity to launch a national continuing medical education strategy. The goal of the strategy is to impact physician behaviour and health outcomes for diseases and syndromes which are most impacting Canadians. The strategy involves the initiation, development, delivery and evaluation of online and face-to-face learning initiatives, which will include quality improvement initiatives, as well as simulation based training.
- Facilitated the accreditation of 212 learning activities, comprising 460 sessions, including:
 - 20 activities for Mainpro M1 credits
 - 54 activities for Maincert Section 1 credits
 - 138 activities for both Mainpro M1 and Maincert Section 1 credits
- Facilitated the delivery of 36,801 participant-hours of education in total involving 12,185 participants in Southwestern Ontario and nationally.

Faculty and staff development highlights 2015

- Conducted 156 faculty and staff development workshops, involving 2,063 participants and 4,629 participant-hours of education.

Continuing Dental Education highlights 2015

- Offered 27 CDE program, involving 750 participants; and 34 Special Topics programs, involving 1,530 participants representing a combined total of 16,650 participant-hours of education.

FINANCIAL ACCESSIBILITY

•> Scholarships, Awards and Bursaries



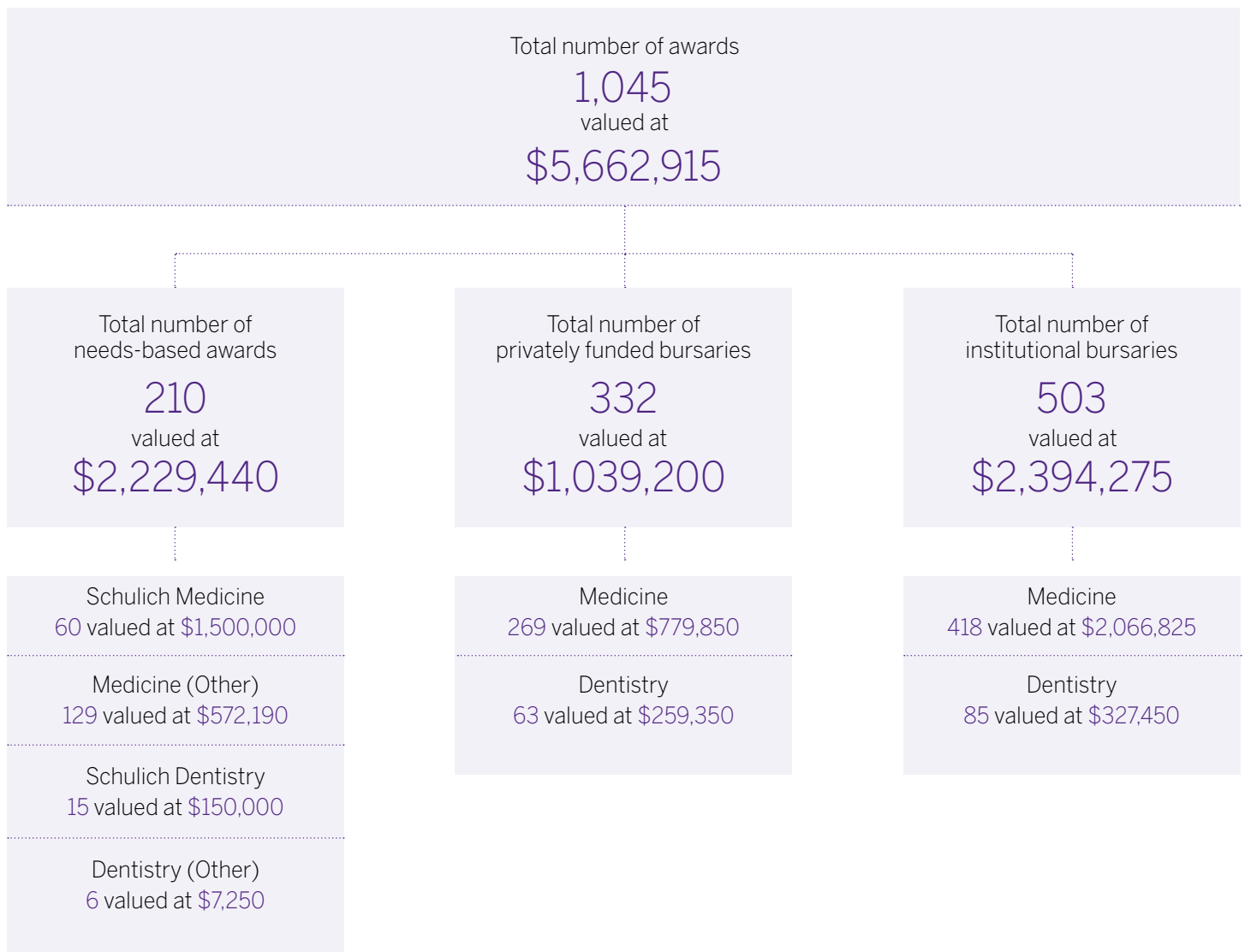
Monetary breakdown of yearly scholarships supported by Mr. Seymour Schulich

<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>16</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>\$160,000</p> <p>total annual value of the scholarship</p>	<p>Graduate Studies Basic Medical Sciences</p> <p>50+</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>\$750,000 +</p> <p>total annual value of the scholarship</p>
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Grants and award funding for graduate students 2015

Type of Scholarship	Basic Medical Sciences	Neuroscience	Total funds
Western Graduate Research Scholarships	\$2,064,542.68	\$347,504.36	\$2,412,047.04
Ontario Graduate Scholarships	\$895,000.00	\$85,000.00	\$980,000.00
Canadian Institutes of Health Research	\$445,000.52	\$40,833.38	\$485,833.90
Natural Sciences and Engineering Research Council	\$508,666.85	\$183,166.73	\$691,833.58
Social Sciences and Humanities Research Council	\$20,000.01	-	\$20,000.01
Vanier Canada Graduate Scholarship	\$50,000.01	-	\$50,000.01
Other	\$549,624.98	\$37,000.00	\$586,624.98
Total	\$4,532,835.05	\$693,504.47	\$5,226,339.52

Financial Assistance breakdown for Medicine and Dentistry students 2015







OPERATIONS & ADMINISTRATION

- > Facilities
- Finance
- Human Resources

FACILITIES

Facilities has responsibility for new construction and renovation projects within Western University-owned buildings. Facilities also has responsibility for space planning, space allocation, safety and security for these same buildings.

Facilities oversaw a number of new projects and renovations in 2015. Including:

- The Dentistry Simulation Clinic renovations are creating a new simulation laboratory with completion expected in September 2016.
- Microbiology and Immunology Research Laboratories renovations, which include the third floor of the Dental Sciences Building are underway.
- Western Containment Level 2+/3 Laboratory drawings are now in progress and nearing completion. The future laboratory will be used for the study of HIV and other complex human pathogens and will firmly place researchers at the cutting edge of medicine, science and technology.

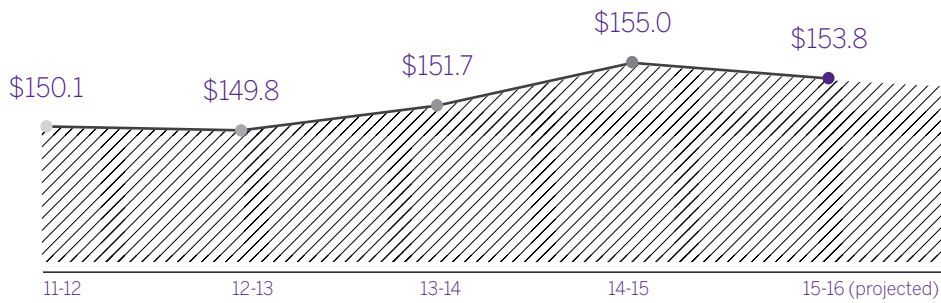
Western University 2015 Net Square Footage

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

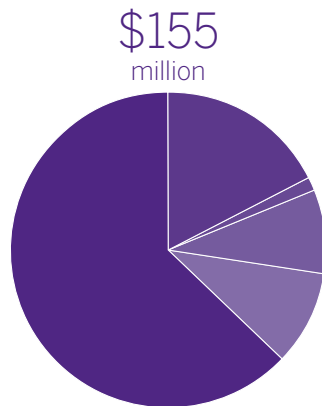
University of Windsor 2015 Square Footage

Dr. Murray O'Neil Medical Education Centre	62,100
Total	62,100

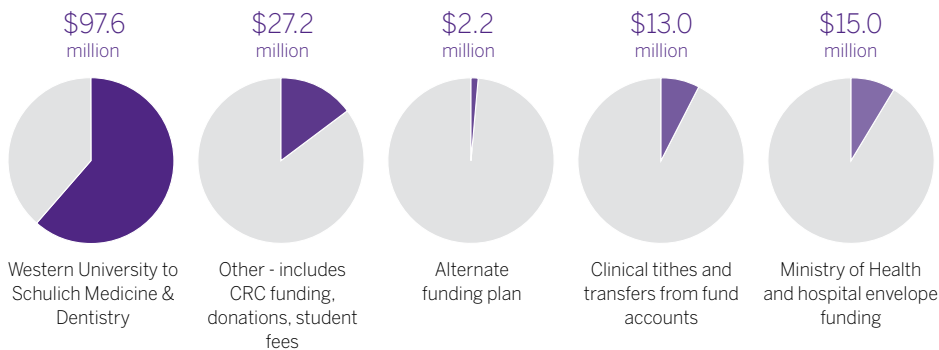
Total operating revenue (in millions) 2011 - 2015



Total operating revenue 2014 - 2015



Breakdown of \$155 million operating revenue 2014-2015



FINANCE

Sources of operating revenue for Schulich Medicine & Dentistry are derived from a number of areas including: base government grants, tuition, Canada Research Chairs and recoverable salaries. Other sources include external billing for service, external salary recoveries and fundraising development.

The School is heading into the second year of a four-year budget cycle, presenting a balanced budget up to 2018-2019.

The Finance Team continues to work with the budget managers to maintain a tight, fiscally responsible budget in order to be able to respond to any changes in the current economic environment.

HUMAN RESOURCES

During 2015, the Human Resources department implemented a variety of new resources for the growing number of faculty and staff members at the School.

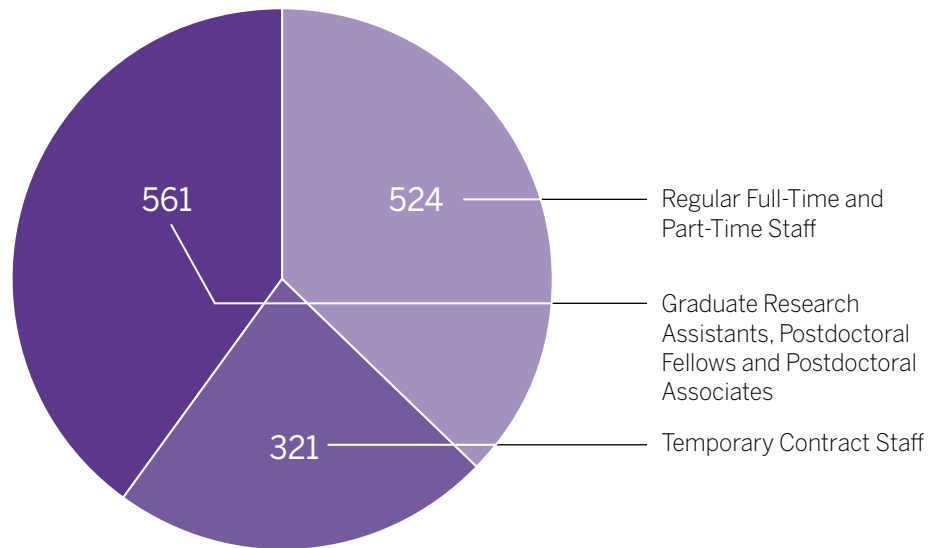
They now provide learning opportunities for staff development through the creation of leadership development, process mapping, and change management training through sessions and programs.

A review of recruitment processes was identified for improvement and best practices for recruitment were promoted. An enhanced orientation process for new employees was introduced.

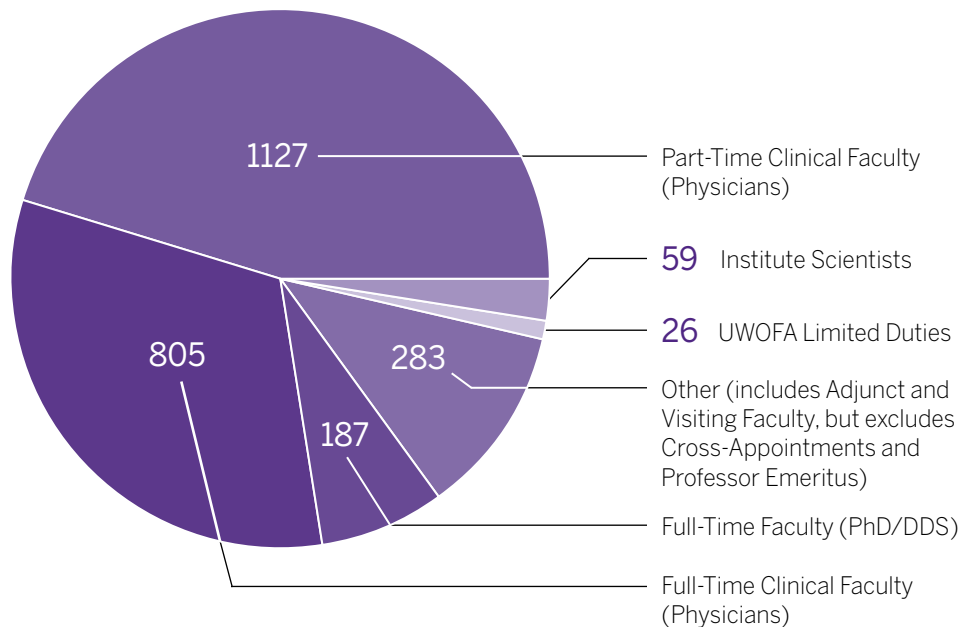
The Department is preparing for the addition of the training and development unit to its portfolio. This will allow for the implementation of a learning and development program, as well as the creation of new staff learning sessions.

The new Wellness Committee was organized to enrich the physical, mental, emotional, occupational and spiritual well being of staff. The programs have also been made available to faculty. The primary goal of the Committee is to make the School's work environment more supportive of positive health behaviours of staff and faculty, thereby reducing their risk of illness while promoting and supporting improved well-being for all.

1,406
Staff complement



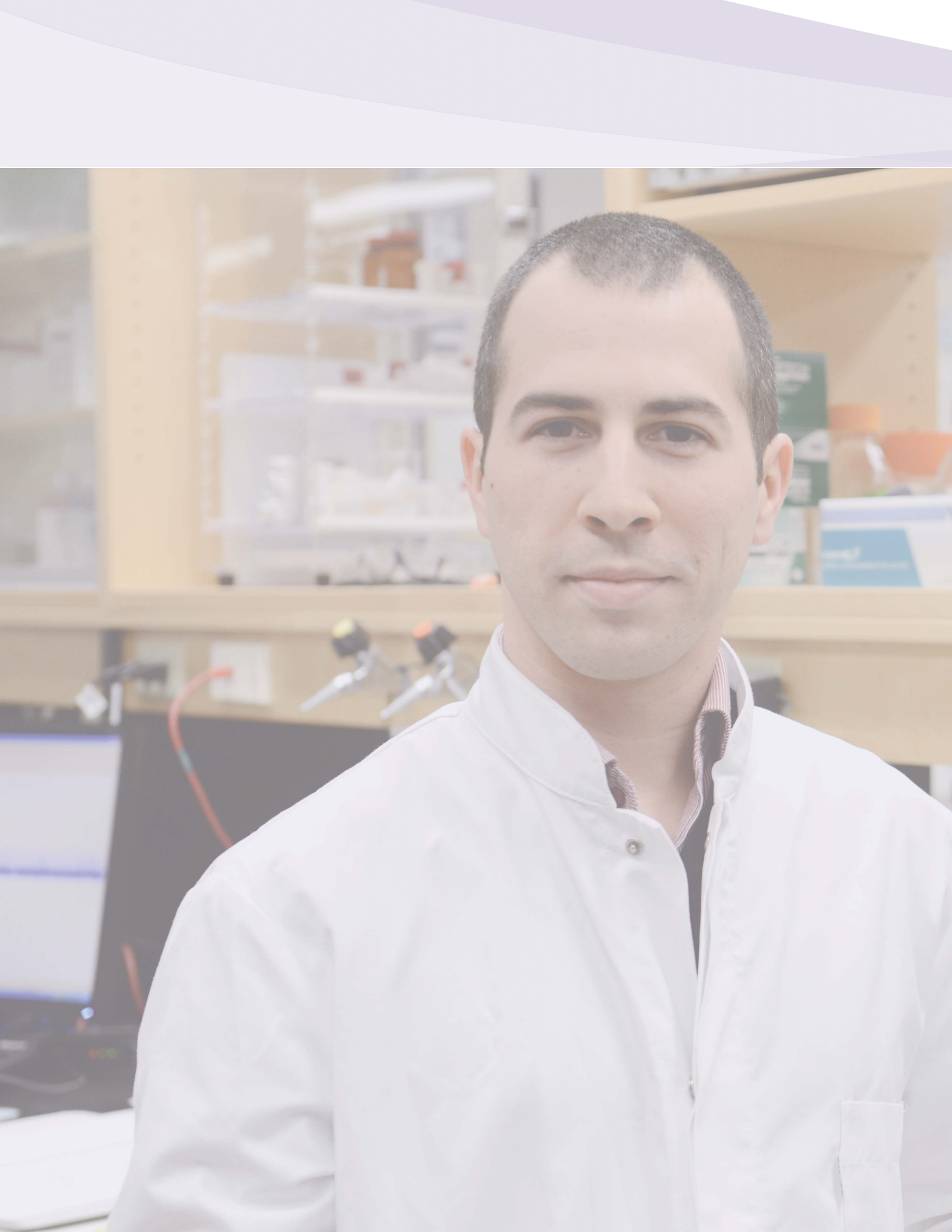
2,487
Faculty complement



Decanal and Director Appointments	Appointment Duration
Dr. Richard Bohay, Interim Director, Schulich Dentistry	January 26, 2015 – December 31, 2016
Dr. Marlys Koschinsky, Scientific & Executive Director, Robarts Research Institute	October 1, 2015 – September 30, 2020
Dr. Jim Lewis, Director, Clinical Research Training	January 1, 2015 – December 31, 2019
Dr. Christopher Watling, Associate Dean, Postgraduate Medical Education	October 1, 2015 – June 30, 2020
Endowed Appointments	Appointment Duration
Dr. Rob Hegele, Jacob J. Wolfe Distinguished Medical Research Chair in Human Gene Function	April 1, 2015 – March 31, 2020
Dr. Elizabeth Osuch, Dr. Joseph Rea Chair in Mood Disorders	August 1, 2015 – July 31, 2020
Dr. Julio Martinez-Trujillo, Provincial Endowed Academic Chair in Autism	January 1, 2015 – December 31, 2019
Dr. Dwight Moulin, Earl Russell Chair in Pain Management	October 1, 2015 – September 30, 2020
Dr. Donald Welsh, Cecil and Linda Rorabeck Chair in Molecular Neuroscience & Vascular Biology	January 1, 2015 – December 31, 2019
Canada Research Chair Appointments	Appointment Duration
Dr. Eric Arts, Tier 1 Canada Research Chair in HIV/Molecular Virology	October 1, 2015 – September 30, 2022
Dr. Stephen Lomber, Tier 1 Canada Research Chair in Cortical Plasticity in Sensory Processing	January 1, 2015 – December 31, 2021
Dr. Patrick O'Donoghue, Tier 2 Canada Research Chair in Chemical Biology	May 1, 2014 – April 30, 2019
Dr. Andrew Pruszynski, Tier 2 Canada Research Chair in Sensorimotor Neuroscience	April 1, 2015 – March 31, 2020

Chair Appointments	Appointment Duration
Dr. Rob Bartha, Acting Chair, Department of Medical Biophysics	July 1, 2015 – June 30, 2016
Dr. GY Zou, Acting Chair, Department of Epidemiology and Biostatistics	September 1, 2015 – August 31, 2016
Dr. Glenn Bauman, Chair/Chief, Department of Oncology	July 1, 2015 – September 30, 2020
Dr. John Denstedt, Chair/Chief, Department of Surgery	June 30, 2015 – December 31, 2015
Dr. Andrea Lum, Acting Chair/Chief, Department of Medical Imaging	June 30, 2015 – December 31, 2016
Dr. Michael Motolko, Acting Chair/Chief, Department of Ophthalmology	October 1, 2015 – September 30, 2016
Endowed Chairs	Current Incumbent
Barnett-Ivey Heart & Stroke Chair	Dr. Geoff Pickering
Beryl & Richard Ivey Research Chair in Rehabilitation & Geriatric Care	Dr. Robert Petrella
Beryl Ivey Chair in Ecosystem Health	Currently Recruiting
Canadian Diabetes Association Chair in Diabetes Management	Dr. Stewart Harris
Cecil and Linda Rorabeck Chair in Molecular Neuroscience and Vascular Biology	Dr. Donald Welsh
Dr. Adam Linton Chair in Kidney Health Analytics	Dr. Amit Garg
Dr. Brian W. Gilbert CRC – Primary Health Care	Dr. Moira Stewart
Dr. Joseph Rhea Chair in Mood Disorder	Dr. Elizabeth Osuch
Dr. Sandy Kirkley Chair in Musculoskeletal Research	Dr. David Holdsworth
Earl Russell Chair in Pain Management	Dr. Dwight Moulin
Edith Schulich Vinet – Human Genetics	Dr. Robert Hegele
Fallon Memorial Chair in Clinical Preventative Medicine	Currently Recruiting

Endowed Chairs (continued)	Current Incumbent
Graham King Musculoskeletal 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
Helen and Frances Lawson Chair in Diabetes Research	Dr. David Hill
Ian McWhinney-Chair of Family Medicine Studies	Dr. Stewart Harris
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 & Dr. Henry Barnett Chair in Stroke Research	Currently Recruiting
Martha G. Blackburn Chair in Cardiovascular Research	Dr. Robert Hegele
Provincial Endowed Academic Chair in Autism	Dr. Julio Martinez-Trujillo
Ramsay W. Gunton Chair in Cardiology	Dr. James Brown
Raymond & Margaret Elliot Chair in Surgical Innovation	Dr. Bob Kiaii
Richard & Beryl Ivey Chair in Clinical Neurological Sciences	Dr. Paul Cooper
Richard & Jean Ivey Fund Chair in Molecular Toxicology	Currently Recruiting
Richard Ivey Chair of Surgery	Dr. John Denstedt
Richard Ivey Chair of Medicine	Dr. James Calvin
Robert Zhong Chair in Translational Transplant Research	Currently Recruiting
Sheldon H. Weinstein Chair in Diabetes Research	Dr. David Hill
Tanna Schulich Chair in Neurosciences & Mental Health	Dr. Peter Williamson





RESEARCH



Research

Robarts Research Institute

Centre for Education Research & Innovation

Canada Research Chairs

Publications

RESEARCH

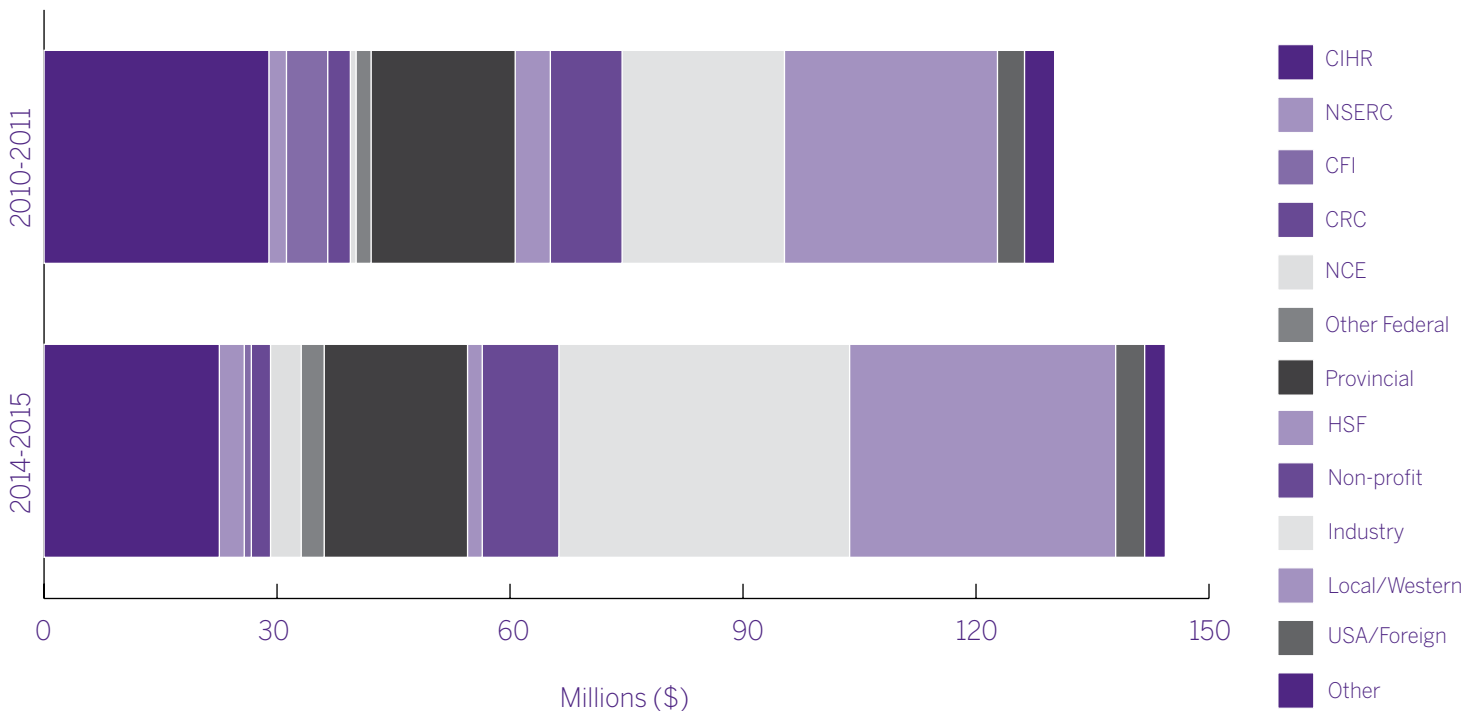
Research highlights 2015

- The new Western Cluster of Research Excellence in Musculoskeletal Health is expected to drive high-impact interdisciplinary research with the goal of providing life-long mobility. The new cluster includes 70 researchers from the Schulich School of Medicine & Dentistry, Robarts Research Institute and other faculties across campus. The cluster will study conditions such as arthritis, osteoporosis, trauma, and work, sport and exercise-related injuries.
- Schulich Medicine & Dentistry researchers received more than \$3.5 million in funding for five years through the Natural Sciences and Engineering Research Council of Canada's (NSERC) Discovery Grants program.
- Three research teams led by researchers from Schulich Medicine & Dentistry were awarded Collaborative Health Research Project grants, the most ever granted to Schulich School of Medicine & Dentistry researchers in a single year. The teams are led by Drs. Savita Dhanvantari, Christopher Ellis, and Keith St. Lawrence.
- Dr. Aaron Ward received Prostate Cancer Canada's Rising Star in Prostate Cancer Research Award. Dr. Ward, assistant professor in the Departments of Medical Biophysics and Oncology, will receive a total of \$446,856 between January 1, 2015 and December 31, 2017 for his research titled "Multi-Modality Radiomics for Personalized Prostate Cancer Care". His research proposes 3D magnetic resonance imaging to completely map the prostate, which will show the physician where the tumours are located and how quickly they are growing.
- Schulich Medicine & Dentistry and Lawson Health Research Institute have received an extraordinary financial boost from the Government of Ontario as 20 potentially transformative projects are now being supported with \$19,465,828 from the Ontario Research Fund.
- Schulich Medicine & Dentistry Researchers at the Bone and Joint Institute, working to treat and regenerate soft connective tissues such as ligaments and cartilage, were awarded \$1.65 million in funding from NSERC through its Collaborative Research and Training Experience initiative.
- Drs. Frank Beier, Rob Hegele, Terry Peters, and Geoff Pickering received grants totaling \$9.9 million over seven years from the inaugural Canadian Institutes of Health Research (CIHR) Foundation Grant competition. The CIHR Foundation Grant is designed to contribute to a sustainable foundation of health research leaders by providing long-term support for the pursuit of innovative, high-impact programs of research.

Research highlights 2015

➤ Dr. Robert Bartha is leading the imaging platform of the Ontario Neurodegenerative Disease Research Initiative (ONDRI) Integrated Discovery Program, which aims to understand the commonalities and distinguishing characteristics of five neurodegenerative disorders: Alzheimer's, Parkinson's, ALS, frontotemporal lobar dementia and vascular cognitive impairment. The Ontario Brain Institute will invest \$19 million in new funds during the next five years to fund ONDRI. Partner institutions and donations will contribute another \$9.5 million to the program, bringing the total investment to \$28.5 million.

Research funding 2010-2011 vs. 2014-2015



ROBARTS RESEARCH INSTITUTE

Robarts Research Institute at the Schulich School of Medicine & Dentistry is a world leader in biomedical knowledge. Robarts is at the forefront of innovating, educating and translating research discoveries into clinical applications for patients across the globe.

As a leading contributor to internationally renowned research, Robarts houses the only ultra-high field MRI machine in Canada, and fosters key scientific breakthroughs such as the use of aspirin to prevent stroke.

Core infrastructure facilities at Robarts, from imaging to genomics, support research in London and around the world.

Robarts Research Institute highlights 2015

- Dr. Marlys L. Koschinsky is the new Scientific and Executive Director for Robarts Research Institute as of October 2015. Her research is in the areas of atherosclerosis and thrombosis, and she is an internationally recognized expert in the study of lipoprotein(a) – a genetic risk factor for cardiovascular disease.
- Drs. Julio Martinez-Trujillo, Aaron Fenster, Caroline Schild-Poulter, and Brian Corneil received CIHR Open Operating Grants of more than \$2.8 million.
- Dr. Ravi Menon was one of only six Canadians ever selected as a senior fellow by the International Society for Magnetic Resonance in Medicine (ISMRM). He was recognized for his significant contributions to advancements in fMRI and ultra-high field MRI at the ISMRM's 23rd Annual Meeting and Exhibition in Toronto.
- Dr. Ian Cunningham has been named a Fellow of the Canadian Organization of Medical Physicists (COMP). This honour recognizes his significant contributions to the field of medical physics including research, professional practice and educational mentorship. The award was presented at the World Congress on Medical Physics and Biomedical Engineering in Toronto in July 2015.
- The 2015 J. Allyn Taylor International Prize in Medicine recipient was Sanjiv S. Gambhir, MD, PhD, a renowned cancer imaging researcher from Stanford University. The recipient is nominated by the scientific community and selected by a peer jury which focuses on research areas that are integral to Robarts' mandate. The focus for 2015 was "Cellular and Molecular Imaging in Cancer". The Cancer Imaging Research Program at Robarts is focused on generating new cancer imaging tools and new molecular probes to detect specific types of cancer.
- Robarts Clinical Trials Inc. announced a new location for its corporate headquarters. Located at 100 Dundas Street in the iconic Bell Canada Building, the new space will provide capacity for increased customer support, clinical operations, business development and leadership functions across the organization and will accommodate the rapid growth and expansion plans projected for Robarts Clinical Trials Inc.
- Dr. Robert Bartha was awarded the Alzheimer Foundation London and Middlesex Premier Research Grant, a \$100,000 award (over two years) to support research, personnel and infrastructure.

CERI highlights 2015

- > Dr. Mark Goldszmidt, Associate Director, successfully defended his PhD in Health Professions Education at Maastricht University. Dr. Goldszmidt's thesis, which has been published as four journal manuscripts, was entitled "Communication and Reasoning on Clinical Teaching Teams: The Genres that Shape Care and Education". His supervisors were Drs. Lorelei Lingard, and Tim Dornan of Maastricht University.
- > Fellow and Schulich MD/PhD student, Dr. Tavis Apramian, successfully defended his PhD in Health Professions Education. His supervisors were Drs. Lorelei Lingard and Sayra Cristancho. Dr. Apramian's thesis, published as three journal manuscripts, was entitled "Exploring the Role of Procedural Variations in Surgical Education."
- > Established three Scholarly Innovations Mentored Groups in 2015, which support faculty who are developing scholarly innovations in medical education. There are currently 18 faculty participants.
- > Hosted first Master Class on Writing Research for Publication in collaboration with Continuing Professional Development.
- > CERI members published more than 30 articles in high-profile medical education journals, and made more than 100 presentations at local, national and international research conferences including the Canadian Conference on Medical Education, Association of Medical Education in Europe, Association of American Medical Colleges - Research in Medical Education, and International Conference on Residency Education.

Grants received 2015

- > Drs. Saad Chahine and Mark Goldszmidt were awarded a Royal College of Physicians and Surgeons of Canada grant for their proposal, "Investigating the use of cognitive diagnostic assessment in the development and assessment of entrustable professional activities."
- > Drs. Sayra Cristancho, Chris Watling, and Lorelei Lingard were awarded the Western Strategic Support for CIHR Success – Bridge Competition for their proposal, "Re-Engineering the notion of complexity in clinical practice."
- > Dr. Chris Watling was awarded the AMOSO Opportunities Grant for his project, "Exploring learning in clinical settings: a new program of research, and a proposal for enhancing education research training at Schulich."

CENTRE FOR EDUCATION RESEARCH & INNOVATION

Since its opening in 2009, the Centre for Education Research & Innovation (CERI) has made significant progress as a thriving education research community at Schulich School of Medicine & Dentistry.

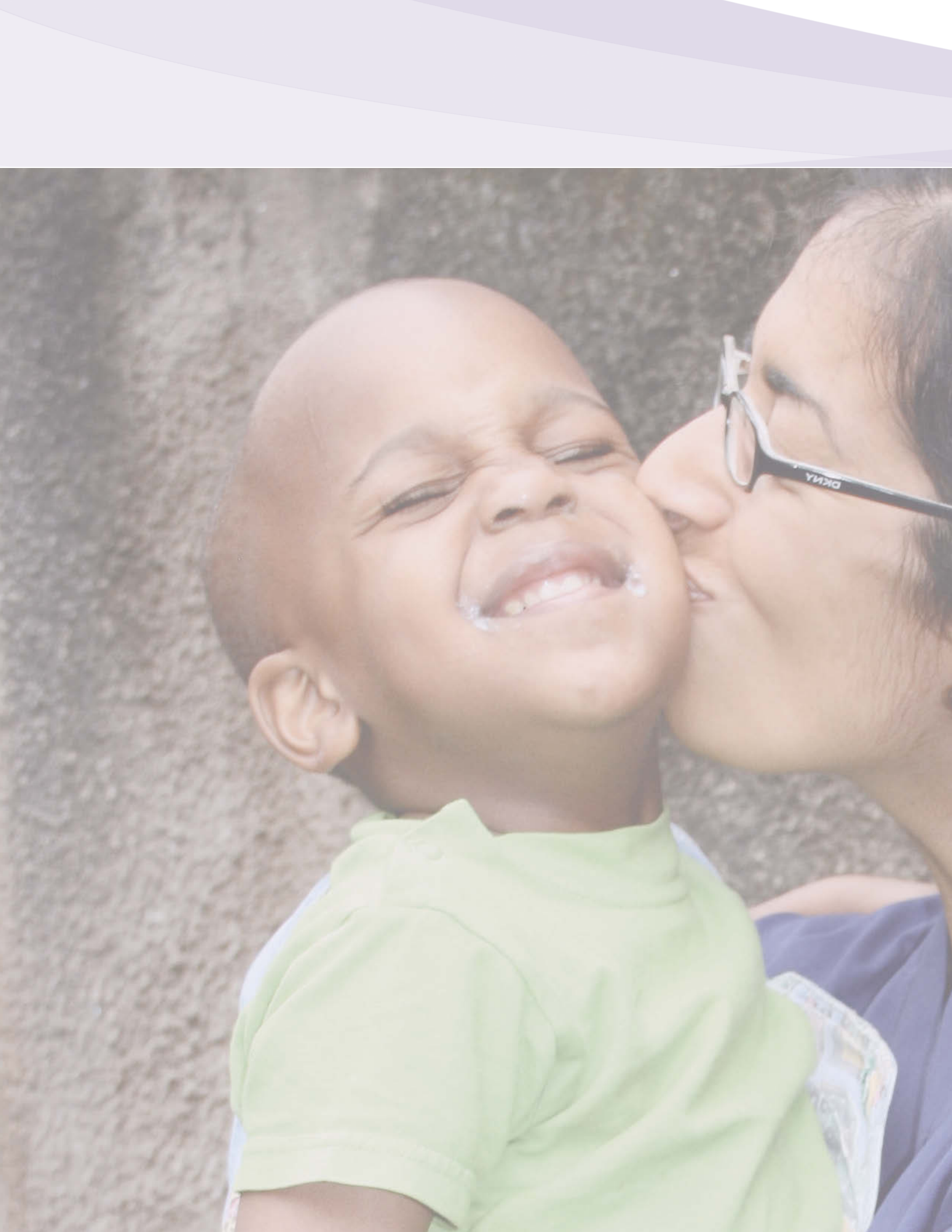
The vibrant, interdisciplinary axis for education research is also a respected education research training site in Canada, and an internationally recognized producer of new knowledge in health professions education research.

CANADA RESEARCH CHAIRS

Canada Research Chair	Current Chair Holder	Tier
HIV Pathogenesis and Viral Control	Dr. Eric Arts	1
Musculoskeletal Research	Dr. Frank Beier	1
Oncology	Dr. Ann Chambers	1
Neurodegeneration and Repair	Dr. Sean Cregan	2
Experimental Cardiology	Dr. Morris Karmazyn	1
Gap Junctions and Disease	Dr. Dale W. Laird	1
Functional Genomics and Cellular Proteomics	Dr. Shawn Li	2
Brain Plasticity and Development	Dr. Stephen Lomber	1
Cognitive Neuroscience and Neuroimaging	Dr. Penny MacDonald	2
Translational Magnetic Resonance Imaging	Dr. Charles McKenzie	2
Functional Magnetic Resonance Imaging	Dr. Ravi S. Menon	1
Chemical Biology	Dr. Patrick O'Donoghue	2
Sensorimotor Neuroscience	Dr. Andrew Pruszynski	2
Structural Neurobiology	Dr. Gary S. Shaw	1
Dr. Brian W. Gilbert Canada Research Chair in Primary Health Care	Dr. Moira Stewart	1
Health Services Research	Dr. Amardeep Thind	2
Bioethics	Dr. Charles Weijer	1

NOTABLE RESEARCH PUBLICATIONS

- Bauer, G. R., Scheim, A. I., Pyne, J., Travers, R., & Hammond, R. (2015). Intervenable factors associated with suicide risk in transgender persons: a respondent driven sampling study in Ontario, Canada. *BMC public health*, 15(1), 525.
- Li, D. Q., Kim, R., McArthur, E., Fleet, J. L., Bailey, D. G., Juurlink, D., Shariff, S. Z., Gomes, T., Mamdani, M., Sandhi, S., Dixon, S., & Garg, A. X. (2015). Risk of adverse events among older adults following co-prescription of clarithromycin and statins not metabolized by cytochrome P450 3A4. *Canadian Medical Association Journal*, 187(3), 174-180.
- Webster, F., Rice, K., Dainty, K. N., Zwarenstein, M., Durant, S., & Kuper, A. (2015). Failure to cope: The hidden curriculum of emergency department wait times and the implications for clinical training. *Academic Medicine*, 90(1), 56-62.
- Anderson, K. K., Cheng, J., Susser, E., McKenzie, K. J., & Kurdyak, P. (2015). Incidence of psychotic disorders among first-generation immigrants and refugees in Ontario. *Canadian Medical Association Journal*, cmaj-141420.
- Naci, L., Cusack, R., Anello, M., & Owen, A. M. (2014). A common neural code for similar conscious experiences in different individuals. *Proceedings of the National Academy of Sciences*, 111(39), 14277-14282.
- Cohen, M. J., King, C. R., Dikeakos, J. D., & Mymryk, J. S. (2014). Functional analysis of the C-terminal region of human adenovirus E1A reveals a misidentified nuclear localization signal. *Virology*, 468, 238-243.
- Ginsburg, S., Regehr, G., Lingard, L., & Eva, K. W. (2015). Reading between the lines: faculty interpretations of narrative evaluation comments. *Medical education*, 49(3), 296-306.
- Augustine, C., Cepinskas, G., Fraser, D. D., & Canadian Critical Care Translational Biology Group. (2014). Traumatic injury elicits JNK-mediated human astrocyte retraction in vitro. *Neuroscience*, 274, 1-10.
- Hiansen, J. Q., Keating, E., Aspros, A., Yao, L. J., Bosma, K. J., Yamashita, C. M., Lewis, J. F., & Veldhuizen, R. A. (2015). Cholesterol-mediated surfactant dysfunction is mitigated by surfactant protein A. *Biochimica et Biophysica Acta (BBA)-Biomembranes*, 1848(3), 813-820.
- Sayed-yahosseini, S., Xu, S. X., Rudkouskaya, A., McGavin, M. J., McCormick, J. K., & Dagnino, L. (2015). Staphylococcus aureus keratinocyte invasion is mediated by integrin-linked kinase and Rac1. *The FASEB Journal*, 29(2), 711-723.
- Stewart, M., & Ryan, B. (2015). Ecology of health care in Canada. *Canadian Family Physician*, 61(5), 449-453.
- Connell, I. R., Gilbert, K. M., Abou-Khousa, M., & Menon, R. S. (2015). MRI RF Array Decoupling Method With Magnetic Wall Distributed Filters. *Medical Imaging, IEEE Transactions on*, 34(4), 825-835.
- Holm, E., Aubin, J. E., Hunter, G. K., Beier, F., & Goldberg, H. A. (2015). Loss of bone sialoprotein leads to impaired endochondral bone development and mineralization. *Bone*, 71, 145-154.
- Chambers, D., Bohay, R., Kaci, L., Barnett, R., & Battista, J. (2014). The effective dose of different scanning protocols using the Sirona GALILEOS® comfort CBCT scanner. *Dentomaxillofacial Radiology*, 44(2), 20140287.
- Laird, D. W., Lampe, P. D., & Johnson, R. G. (2015). Cellular Small Talk. *Scientific American*, 312(5), 70-77.
- Manning, K. Y., Fehlings, D., Mesterman, R., Gorter, J. W., Switzer, L., Campbell, C., & Menon, R. S. (2015). Resting State and Diffusion Neuroimaging Predictors of Clinical Improvements Following Constraint-Induced Movement Therapy in Children With Hemiplegic Cerebral Palsy. *Journal of child neurology*, 0883073815572686.
- Sposato, L. A., Cipriano, L. E., Saposnik, G., Vargas, E. R., Riccio, P. M., & Hachinski, V. (2015). Diagnosis of atrial fibrillation after stroke and transient ischaemic attack: a systematic review and meta-analysis. *The Lancet Neurology*, 14(4), 377-387.





INTERNATIONAL EFFORTS

•> Internationalization

INTERNATIONAL EFFORTS

The role of the Internationalization Office is to oversee, facilitate, coordinate and promote the international activities and initiatives for the School by cultivating partnerships with individuals and organizations in other countries that enhance our education, research, and collaborations in health.

The School's internationalization initiatives align with Western's Internationalization Strategy.

The School continues to focus on five key geographic areas: Brazil, China, East Africa, Middle East and USA.

As the School continues to advance its internationalization objectives, administrative changes were introduced.

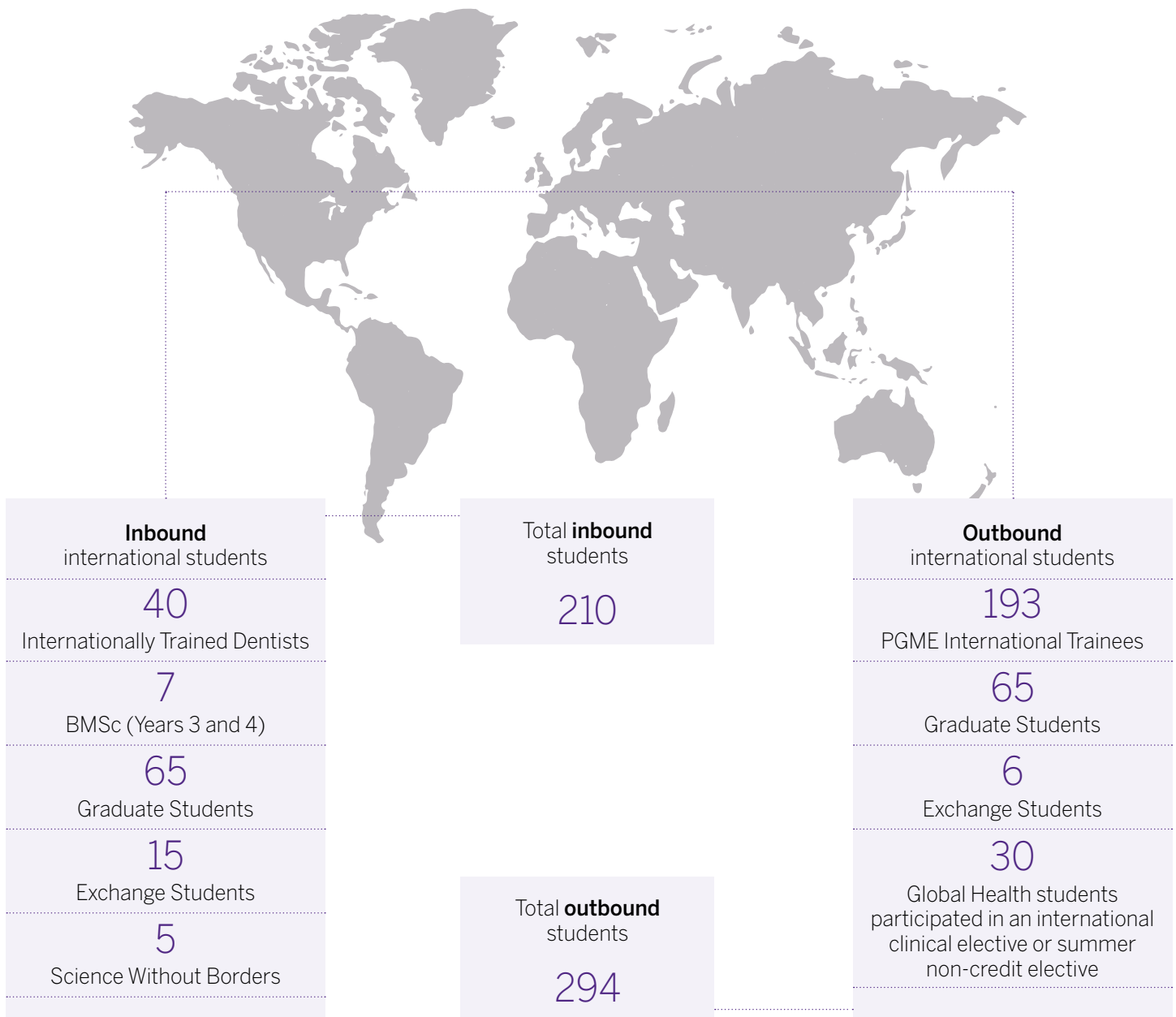
A Director was hired and the Special Advisor to the Dean on Health Globalization, Internationalization and Simulation position was discontinued.

The Director of Internationalization serves as the key contact for the operational aspects of the Office and works with relevant internal and external stakeholders to achieve the strategic internationalization objectives of the School.

Internationalization highlights 2015

- Partnered with Western International to create a database of all existing agreements campus-wide. This will inform other individuals looking to create international partnerships of the current agreements and provide more opportunities to expand.
- Collaborated and made advancements with two key Chinese partner institutions: the West China School of Medicine - Sichuan University, and the Nanjing Medical University (NMU). Advancement activities included: a student research program, in which five medical students funded by the China Scholarship Council spent one year in research laboratories in London; a dual PhD degree student from Sichuan University completing research at Schulich Medicine & Dentistry; the introduction of clinical rotations for Western students at the West China Hospital; and a joint surgical symposium held in Chengdu.
- Hosted a delegation from NMU, led by its President Hongbing Shen. They participated in the Western-Nanjing Research Symposium.
- Developed a three-month faculty development program focused on Family Medicine training. Two physicians from NMU participated in the program from November 2014 - January 2015. The School welcomed two medical students from NMU in July 2015 for a clinical observership.
- Collaboration with the Universidade de São Paulo's (USP) dentistry program is expanding. Graduate students coming to Schulich Medicine & Dentistry from USP for research activities continues to be very active. Six students participated in 2015. The School is exploring options for outbound opportunities for Schulich Medicine & Dentistry students.

Inbound and outbound students 2015



A photograph of a middle-aged man with white hair and glasses, wearing a white lab coat over a blue sweater. He is smiling slightly and looking towards the camera. In the background, there are several microscopes on a laboratory bench. The image has a soft, slightly blurred quality, typical of a professional portrait in a scientific setting.

AWARDS

●> Awards received by faculty, staff and students

AWARDS RECEIVED BY FACULTY, STAFF AND STUDENTS

Dean's Awards of Excellence	Recipient
Schulich Excellence in Education Awards (Undergraduate)	
Schulich Leader Award	Dr. Anita Woods
Schulich Educator Award	Dr. Carla Garcia
Schulich Educator Award	Dr. Shannon Arntfield
Schulich Excellence in Education Awards (Graduate/Postgraduate)	
Schulich Leader Award	Dr. Judith Brown
Schulich Educator Award	Dr. Michele Weir
Schulich Educator Award	Dr. Daniel Grushka
Schulich Educator Award	Dr. Grace Parraga
Dean's Awards of Excellence for Faculty Multiple Areas	Dr. George Vilos
Research	Dr. Samuel Siu
Research	Dr. Janet Pope
Research	Dr. Frank Beier
Junior Faculty	Dr. Brad Urquhart
Lifetime Achievement Award	Dr. Neil McKenzie
Schulich Award for Excellence for Faculty in Distributed Sites	Dr. Robert Black
Schulich Continuing Dental Educator Award	Dr. Wim Oudshoorn
Schulich Continuing Medical Educator Award	Dr. Varinder Dua
Schulich Professional Development Educator Award	Dr. Herschel Rosenberg

Dean's Awards of Excellence for Staff	Recipient
Dean's Awards of Excellence for Staff	Kevin Barr
Dean's Awards of Excellence for Staff	Elana Whelan
Dean's Awards of Excellence for Staff	Penny Sim
Dean's Awards of Excellence for Staff	Laura Gabriel
Team Award - Family Medicine Post Graduate Team	Dianne Brooks, Lin Hill, Kelsey Klages, Liz McInnis, Fredd Ross, Sharon Story

Windsor Awards of Excellence	Recipient
Associate Dean's Award of Excellence in Medical Education	Dr. Dana Fleming
Associate Dean's Award of Excellence in Medical Education	Jeanne Hickey
Associate Dean's Award of Excellence in Medical Education	Dr. Jerry Tan
Educators' Award of Excellence in Medical Education	Dr. Amit Bagga
Educators' Award of Excellence in Medical Education	Dr. David Wonham
Educators' Award of Excellence in Medical Education	Dr. Junaid Yousuf
Learner Peer Award of Excellence in Medical Education	Dr. Fawad Ahmed
Learner Peer Award of Excellence in Medical Education	Yousif Atwan
Learner Peer Award of Excellence in Medical Education	Ayesha Raza
Dr. Colin Nisbet Award for Excellence in Emergency Medicine	Kathleen Milne
Windsor Sub Specialty Rotation – Faculty of the Year Award	Dr. Tony Meriano
Windsor Family Medicine – Faculty of the Year Award	Dr. Ross Moncur
Family Medicine Postgraduate Award for Academic Leadership	Dr. Kerry Mayrand
City of Windsor – Family Physician Award	Dr. Jessica Summerfield
Community for Doctors Family Physician Award	Dr. Kerry Mayrand

Alumni of Distinction Awards	Recipient
Excellence in Basic Science Research Award	Fred Possmayer, PhD'65
Professional Achievement Award – Medicine	Dr. William Wall, MD'70
Alumni of Distinction Award – Dentistry	Dr. Len Chumak, DDS, MCID'85
Young Alumni Award	Dr. George Kim, MD'03
Young Alumni Award – Dentistry	Dr. Jill Bashutski, DDS'05
Community Service Award	Bessie Borwein, PhD'73
Dean's Distinguished Lecture Award	Bonnie Schmidt, BSc'86, PhD'93
Dentistry Fall Awards	Recipient
W.W. Wood Faculty Award	Dr. Mark Darling
C.Y. Lung Award	Dr. Esperenza Bohorquez
American Academy of Periodontology Educator Award	Dr. Tarek Ek-Sayegh
Wesley and Jean Dunn Fellowship	Dr. Karl Cuddy
Centennial Orthodontics and Paediatric Dentistry Award	Jennifer Boogaards
Western Faculty Association Scholarship	Ziana Esmail
Ontario Dental Association Proficiency Award	Jessica Gold
Association of Prosthodontists of Ontario Award	Po Cheng Lin
Academy of Operative Dentistry Award	Amirsalar Mofidi
Canadian Academy of Periodontology Award	Kimberly Ngai
Dentistry Class of 1975 Scholarship	Nicole Ostro
International College of Dentists Award	Martin Reiss
Schulich Dentistry Prize for Professionalism and Ethics	Jaskaran Takhar
Elgin Dental Association Award in Oral Surgery	

Dentistry Fall Awards - continued	Recipient
Sunstar/G.U.M. Clinical Proficiency Award	Fuad Tanha
Centennial Orthodontic and Paediatric Dentistry Award	
Royal College of Dental Surgeons of Ontario Scholarship Second Year	Jennifer Archibald
Toronto Crown & Bridge Study Club Award	Oies Hussein
American Dental Society Anesthesiology Award	Peter Kim
Laura Stakiw Memorial Award	Vida Lam
Dr. Donald MacLean Award in Oral Radiology	Elizabeth Waknine
Royal College of Dental Surgeons of Ontario Scholarship First Year	Sameen Abrar
Royal College of Dental Surgeons of Ontario Dean's Award of Excellence	David Feere
Toronto Crown & Bridge Study Club Award	Carolyn Karr
Dr. Sam Ioannidis Memorial Award	David Omole
General Medicine Award	Sadia Tasleem

Internal Graduate Awards	Recipient
Collip Medal Award	Dr. Hilary Brown
Cobban Student Award in Heart and Stroke Research	Elena Tutunea-Fatan
Drs. Madge and Charles Macklin Fellowship for Teaching and Research in Medical Sciences	Danielle Brewer
Drs. Madge and Charles Macklin Fellowship for Publication in Medical Sciences	Sarah Svenningsen
Jonathan & Joshua Memorial Graduate Scholarship	Tamara Tavares
Jonathan & Joshua Memorial Graduate Scholarship	Nole Hiebert
Jonathan & Joshua Memorial Graduate Scholarship	Aaron Regis
Nellie Farthing Fellowship in Medical Sciences	Sarah Mattonen
Nellie Farthing Fellowship in Medical Sciences	Mike Ellis

Internal Graduate Awards - continued	Recipient
Nellie Farthing Fellowship in Medical Sciences	Tyler Beveridge
Norman E. Nixon Marie Rämö Nixon Award	Yiwen Xu
Morris Kroll Memorial Scholarship	Adrienne Borrie
Dean's Research Grant Initiative	Recipient
Dean's Research Grant Initiative	Dr. Douglas Fraser
Dean's Research Grant Initiative	Dr. Roberto Hernandez-Alejandro
Dean's Research Grant Initiative	Dr. Manuel Montero Odasso
Dean's Scholarship for Graduate Research	Recipient
Dean's PhD Graduate Stipend	Georgia Nikoloudaki
Dean's PhD Graduate Stipend	Martin Prusinkiewicz
Dean's MSc to PhD Transfer Stipend	Brennan Dirk
Dean's MSc to PhD Transfer Stipend	Patricia Johnson
Student Research Training Program	Recipient
Dr. L. DeWitt Wilcox Award	Jacob Matusivec
Horace and Clarice Wankel Memorial Award for Cardiovascular Research	Alexander Levit
Dr. Glen S. Wither Award	Nicole Perrier
Dr. Cindy Hutnik Award	Mark Dawidek

Three Minute Research Competition	Recipient
First Place, Three Minute Research Competition	Lauren Solomon
Second Place, Three Minute Research Competition	Nina Weishaupt

History of Medicine Awards	Recipient
History of Medicine Days Conference, First Place - Best History of Surgery Presentation	Rob Bobotsis
History of Medicine Days Conference, Second Place - Best Overall Presentation	Vanessa DeMelo
History of Medicine Days Conference, Second Place - Best History of Medicine Presentation	Jessica Bryce
History of Medicine Days Conference, Second Place - Best Audio/Visual Presentation	Cindy Ningfu Zhu
Harvey Club Prize	Madeline Arkle
Harvey Club Prize	Daniel Liu
Rowntree Prize in Medical History	Daniel Stojanovic

London Health Research Day Awards	Recipient
Endocrinology & Metabolism, Population Health, Education, Fetal-Maternal, Family Development and Aging - Poster Award	Katherine Rabicki
Circulatory and Respiratory Health, Musculoskeletal Health & Rehabilitation - Poster Award	Valerie Arpino
Medical Physics, Engineering, Imaging, Transplantation, Biomedical Devices, Surgical and Clinical - Poster Award	John Baxter
Medical Physics, Engineering, Imaging, Transplantation, Biomedical Devices, Surgical and Clinical - Poster Award	Christiane Sarah Burton
Medical Physics, Engineering, Imaging, Transplantation, Biomedical Devices, Surgical and Clinical - Poster Award	Timothy Pok Chi Yeung
Cellular & Cancer Biology - Poster Award	Jessica Tong
Molecular, Infection, Immunity - Poster Award	Hinissan Kohio

London Health Research Day Awards - continued	Recipient
Molecular, Infection, Immunity - Poster Award	Vanessa Lee
Neuroscience and Mental Health - Poster Award	Devin Duke
Neuroscience and Mental Health - Poster Award	James Kryklywy
The Lucille & Norton Wolf LHRD Trainee Publication Awards	Anusha Ratneswaran
The Lucille & Norton Wolf LHRD Trainee Publication Awards	Thomas Velenosi
The Lucille & Norton Wolf LHRD Trainee Publication Awards	Michael Pest
Feature Platform Presentations, Salon A - First Place	Amy Burke
Feature Platform Presentations, Salon A - Second Place	Joseph Zeppa
Feature Platform Presentations, Salon B - First Place	Matthew Lowerison
Feature Platform Presentations, Salon B - Second Place	Noelle Ochotny
Feature Platform Presentations, Salon C - First Place	Michael Loureiro
Feature Platform Presentations, Salon C - Second Place	Michael Pest
Feature Platform Presentations, Theatre - First Place	Anusha Ratneswaran
Feature Platform Presentations, Theatre - Second Place	Adam Paish
Schulich Dentistry Annual Research Day	Recipient
Certificate of Merit (Senior Category) - First Place	James Hutchenreuther
Certificate of Merit (Senior Category) - Second Place	Mohamed Gebril
Certificate of Merit (Senior Category) - Third Place	Dr. Meena Na
CDA/DENTSPLY Travel Award	Michael Tiedemann
ADA Foundation Travel Award	Kim Beaucage
Hinman Student Research Travel Award	David Feere

The London & District Dental Society - Ontario Dental Association Awards

	Recipient
ODA Award of Merit	Dr. Charles Lin
ODA Award of Merit	Dr. Olaf Plotzke
Dr. Robert A. Brandon Service Award	Dr. Cornel Driessen
Dr. Neil Farrel Community Service Award	Dr. Michael Hornyak
LLDS Award of Merit	Dr. Jim Jean
LLDS Award of Merit	Dr. Robert Smyth
LLDS Service Award	Dr. Greg Carr
LLDS Service Award	Dr. Olaf Plotzke
LLDS Honorary Membership	Dr. Stanley Kogon

London Health Sciences Centre President's Award

	Recipient
President's Award for Innovation	Dr. Roberto Hernandez-Alejandro
President's Award for Physician Leadership	Dr. Andrew House

Various Awards

	Recipient
Canadian League Against Epilepsy's Wilder Penfield Award	Dr. Richard McLachlan
Royal College of Physicians and Surgeons of Canada James H. Graham Award of Merit	Dr. William Wall
Prostate Cancer Canada Rising Star in Prostate Cancer Research Award 2015	Dr. Aaron Ward
YMCA Women of Excellence Award -Sports, Fitness and Recreation	Dr. Lisa Fischer
YMCA Women of Excellence Award- Health, Science and Technology	Dr. Gillian Kernaghan

Various Awards - continued	Recipient
NSERC E.W.R. Steacie Memorial Fellowship	Dr. Daniel Ansari
NSERC Brockhouse Canada Prize for Interdisciplinary Research in Science and Engineering	Dr. Michael Kovacs
CAME Certificate of Merit Award	Dr. David Dixon
CAME Certificate of Merit Award	Dr. Faisal Rehman
CAME Certificate of Merit Award	Dr. Wassim Saad
Sisters of St. Joseph Award of Excellence	Dr. Golnaz Naderkhami, Dr. Siobhan Telfer, Dr. Marie Dion
UME Quality Committee Scholars of Merit Award	Dr. Jane Graham
UME Quality Committee Scholars of Merit Award	Dr. Shannon Arntfield
UME Quality Committee Scholars of Merit Award	Dani Cadieux
UME Quality Committee Scholars of Merit Award	Daniela Kwiatkowski
Senior Women Academic Administrators of Canada Graduate Student Award of Merit	Dr. Lori Lowes
Ontario Mental Health Foundation's New Investigator Fellowship	Dr. Kelly Anderson
Ontario Women's Health Scholars Award	Dr. Catherine Nevin
International Society for Magnetic Resonance in Medicine - Senior Fellow	Dr. Ravi Menon
PARO Citizenship Award for Medical Students	Dr. Kristin Chow
PARO Resident Teaching Award	Dr. Alicia Mattia
PARO Excellence in Clinical Teaching Award	Dr. Cyrus C. Hsia
Fanshawe College Board of Governors Honorary Diploma	Dr. Victor Han
Order of Canada - Member	Dr. Stewart Harris
Dr. Murray Girotti Resident Teaching Award	Dr. Daniel Pepe
Molly Towell Perinatal Research Foundation Fellowship Award	Dr. Nicole Barra

Various Awards - continued	Recipient
Barnabus Day Distinguished Service Award	Dr. Stanley Kogon
ASPIRE Award of Excellence for Student Engagement in a Medical School	Undergraduate Medical Education Program
Dr. Alan Hudson and Robert W. Noakes Canadian Medical Hall of Fame Award	Matthew Quinn
International College of Dentists - Fellow	Dr. Michael Shimizu
Canadian Academy of Health Sciences - Fellow	Dr. Ravi Menon
Governor General's Caring Canadian Award	Dr. Kenneth Wright
Regional Family Physician of the Year Award - College of Family Physicians of Canada	Dr. Dale Ziter
John Charles Polanyi Prize	Dr. Matthew Teeter
Canadian Society of Transplantation Lifetime Achievement Award	Dr. Anthony Jevnikar
Dr. John D. Brown Memorial Resident Award	Dr. Heather Emmerton-Coughlin
Wrigley Basic Salivary Research Award for a Dental or Non-Dental Student	Yuliya Mulyar
Wrigley Clinical Salivary Research Award for Dental Scientists	Eduardo Moffa

Awards from Western University	Recipient
Governor General's Academic Gold Medal	Melanie Kok
Governor General's Academic Gold Medal	Eric Sonke
Governor General's Academic Silver Medal	Brandon Budhram
Western Award of Excellence	Master of Public Health Program: Courtney Hambides, Lisa Metselaar, Diana Lee, Judith Thomas
Western Doctoral Excellence Research Awards	Thomas McMurrough
Distinguished University Professorship Award	Dr. Jeff Dixon
Edward G. Pleva Award for Excellence in Teaching	Dr. Charles Trick
Western University Faculty Scholar	Dr. Lina Dagnino
Western University Faculty Scholar	Dr. David Edgell
Western University Faculty Scholar	Dr. David Heinrichs



SOCIAL RESPONSIBILITY

- > Faculty, staff and student led initiatives

Social Responsibility highlights 2015

- > The UME program planned and supported an Anatomy Day in November 2015 in Windsor. Schulich Medicine students taught area high school students what it means to learn and apply human anatomy in a professional context.
- > The UME program conducted a 3.5 hour workshop on 'Empowering first responders through an educational workshop on Human Anatomy' in Windsor. This was made possible by the Centred on Learning Innovation Fund grant, provided through the University of Windsor.
- > Continuing Professional Development successfully completed the second and third year collaborative agreement as a participating site in the province-wide learning initiative Improving & Driving Excellence Across Sectors. The goal of this initiative is to advance Ontario's health system priorities by building capacity in quality improvement, leadership and change management across all health care sectors.
- > Denise Goens, MPH'15, received a Student Service Award for her work to organize a charity-based dentistry outreach for vulnerable seniors. The recipient of the Student Service Award cultivates professionalism and conscious responsibility toward the profession and the goals of public health.
- > A "Hockey Helps the Homeless" event organized by the Bachelor of Medical Sciences Student Association raised \$15,600 for London's Youth Opportunities Unlimited organization.
- > For the past two years, Maly Bun, education program coordinator, has served as the United Way Employee Campaign Coordinator for Schulich Medicine & Dentistry. She sets financial goals with the School's departments, and engages faculty and staff with the campaign through events and activities – all with a goal of raising money to support community efforts. She has been recognized with the 2015 Labour Appreciation Award. Presented annually, the award recognizes outstanding volunteers within workplaces who contribute to the organization and to their community.
- > Schulich Medicine & Dentistry's Dental Outreach Community Service (DOCS) program is featured in the newly released Community Transformation Report from the Council of Ontario Universities (COU). The 2015 COU report is called "Change Agent – Ontario Universities: Transforming Communities, Transforming Lives", and provides an overview of the diverse range of social, cultural and economic benefits that Ontario's universities continue to bring to the province. Under the "Innovation improving the health of Ontarians" category, DOCS is recognized for its delivery of free oral health care services and contribution to dental education at Schulich Medicine & Dentistry.



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