

FACULTY OF DENTISTRY  
UNIVERSITY OF TORONTO

2019 — 20

# DEAN'S ANNUAL REPORT

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# DEAN'S MESSAGE

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**I am very pleased** to present our third Dean's Annual Report from the University of Toronto Faculty of Dentistry. This past year has been one of immeasurable challenge for all of society — dental schools were no exception. Our own Faculty was affected across all of our activities. The number of patients we were able to treat in our clinics dropped to emergencies only from March through to the end of the academic year. The

Faculty quickly implemented online courses and examinations across our educational streams, which enabled us to continue teaching our students. While most of our laboratory research activities ceased during the closure of our facilities, faculty, students and research fellows continued to publish and produce more of the great work that has become synonymous with our school. Two of our researchers have been active in research related to COVID-19.



While most of our laboratory research activities ceased during the closure of our facilities, faculty, students and research fellows continued to publish and produce more of the great work that has become synonymous with our school”

The COVID-19 restrictions did not diminish our faculty and students’ continued success at winning numerous national and international recognitions. One notable accomplishment was awarded to former dean and professor Barry Sessle, who received the International Association for Dental Research’s (IADR) highest recognition, the Gold Medal. He is only the second recipient of this prestigious honour, in a year in which the IADR also created a research award in his name.

In many instances where our community was forced to postpone the events that we look forward to each year, virtual events went ahead. On June 5, the DDS class of 2020 was celebrated with an online awards event. This followed a University-wide convocation ceremony, in

which more than 15,500 students were conferred virtually — the first and largest such ceremony in U of T’s history.

While some events were sidelined, others were launched. The Advancement and Alumni Relations office began hosting a monthly webinar series for alumni. The inaugural event had a staggering response, with more than 900 alumni registrants. Additionally, U of T Dentistry’s Continuing Dental Education program, in collaboration with the Association of Canadian Faculties of Dentistry, hosted a free continuing education webinar for the 2020 graduates from Canadian dental schools.

From the start of the pandemic, and the subsequent need to halt in-person activities at the school, the Faculty worked extremely hard on our reopening plans. Our priority has been, and remains, the health and safety of our entire community. Concurrently, we continue to be committed to our vision of excellence in research, education and patient care. It is in this spirit that we will continue to take on the challenges that come our way.

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**Daniel Haas**, DDS, PhD, FRCD(C)  
Professor and Dean  
Arthur Zwingenberger Decanal Chair



# STUDENTS

01



Known internationally as a leader in research, didactic and clinical studies, the Faculty of Dentistry continues to attract top talent. Overall, Doctor of Dental Surgery applications rose by 7.45 per cent from the previous year.

In the last year, the percentage of female applicants to the DDS program rose by almost 11 per cent, to 60.3 per cent. Gender parity in students accepted into the DDS program has been consistent over the past several years. Approximately 60 per cent of the first-year DDS class was female in 2019.

Applications to the International Dentist Advanced Placement Program (IDAPP) has also been trending steadily upward, with a marked increase of 23 per cent more applicants from the previous year. In 2020, there were 1.6 female IDAPP applicants to every male applicant. That trend has been consistent: there were 1.74 times more female applicants in 2019, and 1.6 times more female applicants in 2017 and 2018. The most popular country of origin for this program continues to be India. Forty-two per cent of IDAPP students obtained their first dental degrees in India in 2020, down from 58.3 per cent of the class in 2019.

Year over year, graduate program applications remain competitive. In 2019, U of T Dentistry, which offers all 10 of the graduate specialty programs recognized in Ontario as well as non-

specialty studies, received a record 295 applicants to its graduate programs. The highest percentage increase of applicants in 2020 was to the Oral Pathology and Oral Medicine program, with 46 per cent more applicants than the previous year.

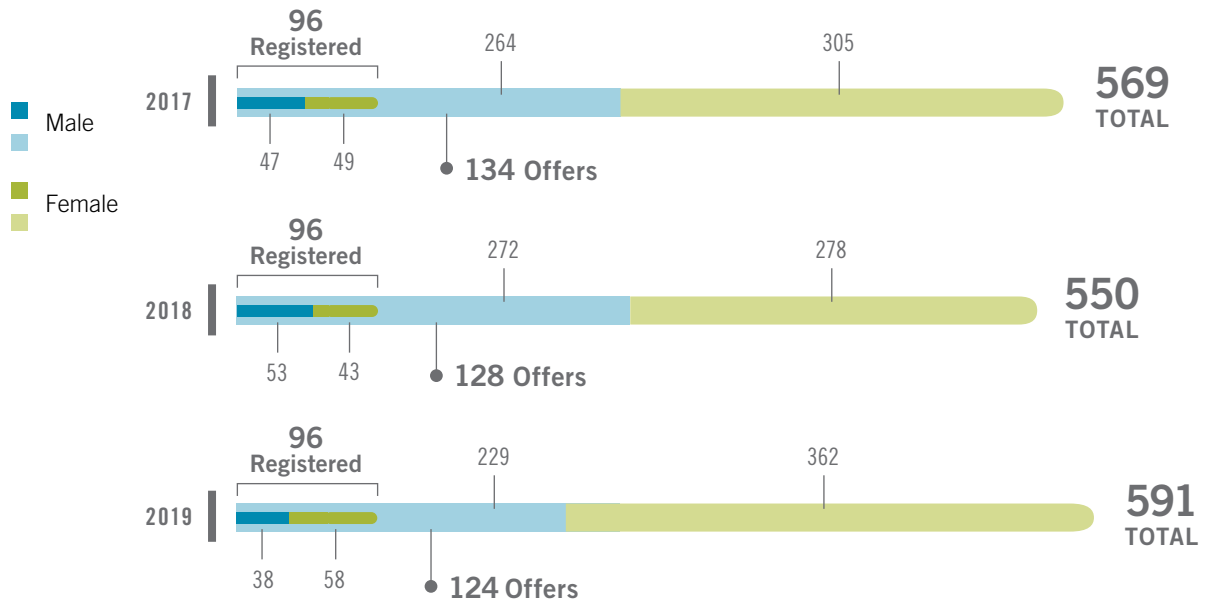
In December 2019, U of T Dentistry successfully received accreditation for the DDS program, as well as our specialty programs in Paediatric Dentistry, Oral and Maxillofacial Surgery, and Orthodontics. In late January 2020, the remaining specialty programs had their accreditation site visits: Dental Public Health; Endodontics; Oral Pathology and Oral Medicine; Oral and Maxillofacial Radiology; Periodontics; and Prosthodontics. That report is forthcoming.

U of T Dentistry's active and engaged undergraduate body are helping to educate people around the world through a collaborative project with experts at Wikipedia and the Faculty. Known as the "Wikipedia Collaboration of Dental Schools," the project aims to develop more accurate content for this important digital platform. McGill University's Faculty of Dentistry was also a collaborator in this unique online project.

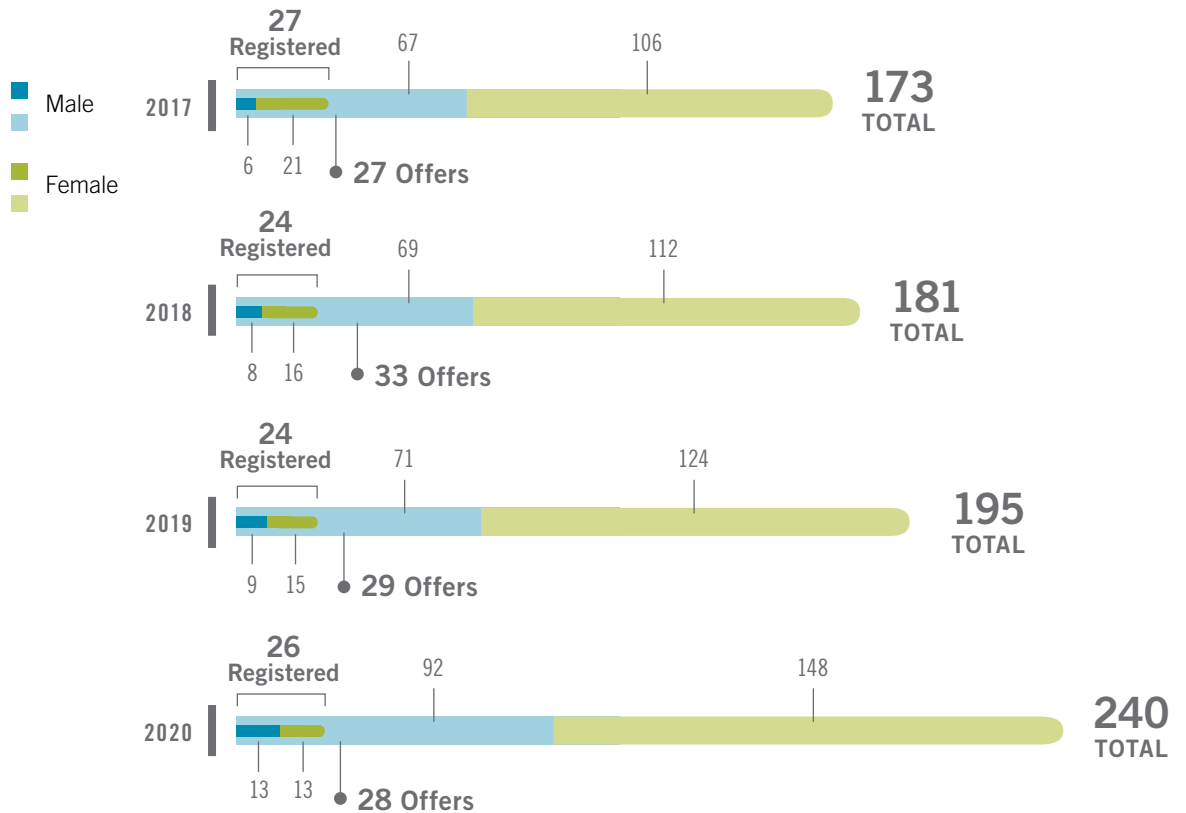
In 2020,  
there were  
**1.6**  
female IDAPP  
applicants to  
every male  
applicant.

## ADMISSIONS

## DDS Applicants Three-Year Data



## IDAPP Applicants Four-Year Data







### TOP FIVE COUNTRIES

where IDAPP applicants (2020) earned their first dentistry degrees:

1. India
2. Egypt
3. Pakistan
4. Iran
5. Hungary/Poland/UAE

### Graduate Program Applications 10-Year Data [By Discipline]

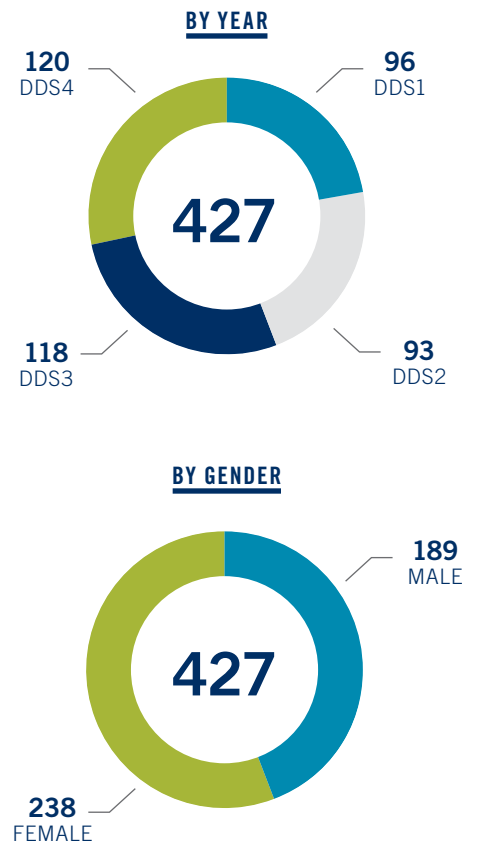
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Dental Anaesthesia	8	6	8	6	3	2	3	3	8	4	6
Dental Public Health	30	24	22	20	20	23	17	18	15	13	6
Endodontics	21	16	19	15	16	12	16	19	20	33	23
Oral & Maxillofacial Surgery	34	33	39	40	37	36	38	42	55	55	42
Oral Pathology & Oral Medicine	12	5	5	8	6	7	16	12	10	7	13
Oral & Maxillofacial Radiology	9	4	12	9	10	11	6	14	10	14	7
Orthodontics	65	49	51	57	42	22	50	59	54	57	47
Paediatric Dentistry	25	21	28	33	24	18	15	21	22	24	19
Periodontology	21	18	15	15	21	27	16	22	26	25	19
Prosthodontics	15	28	19	25	29	28	22	14	16	14	14
MSc (non-specialty stream)										32	37
PhD (non-specialty stream)										17	25
<b>TOTAL</b>	<b>240</b>	<b>204</b>	<b>218</b>	<b>228</b>	<b>208</b>	<b>186</b>	<b>199</b>	<b>224</b>	<b>236</b>	<b>295</b>	<b>258</b>



Student Population Breakdown



DDS 2019 – 20 Breakdown



Undergraduate Funding

BURSARIES

\$109,459.66

AWARDS

\$55,853

FINANCIAL AID

\$124,223.15

Graduate Funding

BURSARIES

\$32,500

AWARDS

\$76,500

INTERNAL FELLOWSHIP & SCHOLARSHIPS\*

\$292,762

\* Harron Scholarship, U of T Open Fellowship, Locker, Baker, Mock and Korzen scholarships

External Funding and Scholarships

\$275,000

TOTAL \$966,297.81

EXTERNAL FUNDING SCHOLARSHIPS — \$275,000

Last year, U of T Dentistry's students were awarded numerous prestigious national scholarships.

ONTARIO GRADUATE SCHOLARSHIP (OGS)

\$90,000

QUEEN ELIZABETH II SCHOLARSHIP (QEII)

\$30,000

Canadian Graduate Scholarships

DOCTORAL (CANADIAN INSTITUTES OF HEALTH RESEARCH)

\$120,000

MASTER'S (NATURAL SCIENCE AND ENGINEERING RESEARCH COUNCIL)

\$17,500

MASTER'S (CIHR)

\$17,500

## STUDENT AWARDS

**Each year, U of T Dentistry students** gain local, national and international recognitions for their research. Spanning the breadth of human health, and integrating clinical and foundational research, the Faculty's students represent the future of dental health research.

This year's highlights include Maxwell Silver's Best Presentation finish at the world-renowned Hinman Symposium and Cameron Stewart's citation from the Academy of Dental Materials. U of T Dentistry had yet another strong showing at the Canadian Association of Dental Research (CADR)/Network for Canadian Oral Health Research (NCOHR) competition, with six students recognized for their

work. One of those who received a travel award, Mohamed Nur Abdallah, went on to win further recognition at the International Association for Dental Research meeting.

This year brought an additional element of scholarly competition with the introduction of the Three Minute Thesis competition. Faculty students participated in an open round competition on December 3, 2019, followed by a second heat during the Faculty of Dentistry's annual Research Day, held on February 11, 2020. PhD candidate Julie Farmer went on to present in the semi-finals, in which students across the University of Toronto competed.

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**Mahmood Abu Ruja**, MSc candidate, Prosthodontics (Sup: Yoav Finer, Grace De Souza)  
First place poster, American College of Prosthodontists 2019 Annual Session

**Mohammed El-Rabbany**, PhD candidate, Oral and Maxillofacial Surgery (Sup: Marco Caminiti)  
Best poster award, American Academy of Oral and Maxillofacial Surgeons annual meeting

**Julie Farmer**, PhD candidate, Dental Public Health (Sup: Carlos Quiñonez)  
CIHR Banting and Best Canada Graduate Scholarship  
Finalist, Three Minute Thesis Competition

**Bo Huang**, MSc candidate, Prosthodontics (Sup: Yoav Finer)  
Acta student award, Acta Biomaterialia

**Muna Marashdeh**, MSc candidate, Endodontics (Sup: Yoav Finer)  
Research award, American Association of Endodontics  
Special citation for receiving the highest rank in the competition

**Kimberly Ngai**, MSc candidate, Paediatric Dentistry (Sup: Yoav Finer)  
Winner, 2019 annual 3M Oral Care Graduate Student Research Presentations Award, Canadian Academy of Pediatric Dentistry  
Dr. Keith Titley Graduate Pediatric Dental Training Scholarship, a national award bestowed by the Canadian Academy of Pediatric Dentistry

**Maxwell Silver**, DDS candidate (Sup: Chris McCulloch)  
"Most Outstanding Presentation," Basic Science Research, Hinman Symposium, University of Tennessee

**Cameron Stewart**, PhD candidate (Sup: Yoav Finer)  
2020 Student of Merit Award, Academy of Dental Materials

**Nevena Zivkovic**, DDS candidate (Sup: Carlos Quiñonez)  
Alliance for a Cavity Free Future award, Canadian Association of Public Health Dentistry meeting



### Junior Category

- Trevor Burgess** (Sup: Anuradha Prakki, Karina Carneiro)
- Rachel Macdonald** (Sup: Marco Magalhaes)
- Kate Richert** (Sup: Laura Dempster)

### Senior Basic Science Research

- Shahrzad Nouri** (Sup: Bernhard Ganss)

### Senior Clinical/Pre-Clinical Research

- Gillian Landzberg** (Sup: Anil Kishen)
- Mohamed nur Abdallah**, MSc candidate, Orthodontics (Sup: Michael Glogauer, Marcus Grynpas)  
Canadian Dental Specialties Association (CDSA) student travel award
- 2020 Orthodontic & Craniofacial Clinical and Translational Research Award**, IADR/AADR  
Craniofacial Biology Group competition

## Embracing a New World of Learning



Due to the worldwide outbreak of coronavirus, the way education is delivered has undergone an evolution this year. In response to in-person suspensions of teaching, schools around the world were forced to quickly pivot to remote didactic learning.

The Faculty of Dentistry was ready for the challenge: within days of shutting down to help curb the spread of COVID-19, faculty members had moved courses entirely online via virtual learning software programs such as Quercus, Blackboard Collaborate, MS Teams and more. Several faculty members and course directors had already been using a number of virtual components to supplement their course delivery.

Online assessment software was also already in place. ExamSoft, piloted by the Faculty last year, was quickly implemented across the four years of the DDS program. With this software the Faculty was able to establish online examinations, which helped students successfully finish their year.

# FACULTY

02

It's been another banner year for awards, honours, grants and recognitions for U of T Dentistry's faculty. Barry Sessle, Professor, former Dean, and former President of the International Association for Dental Research was awarded two remarkable distinctions this spring.

Sessle was honoured with the IADR's highest recognition, the IADR Gold Medal, in recognition of his continuous advances in the field of pain studies. The IADR also named a new award in Sessle's honour, to be called the IADR INfORM Barry J Sessle Postdoctoral award. The amount of \$1,000 USD will be awarded annually to a postdoctoral researcher working in a higher academic institution. The award is part of the IADR's International Network for Orofacial Pain and Related Disorders Methodology (INfORM).

There were several other notable international recognitions for faculty. Professor and George Zarb/Nobel Biocare Chair in Prosthodontics Yoav Finer was awarded the 2020 Peyton-Skinner award from the Dental Materials Group of the IADR. Professor Anil

Kishen was awarded the Louis I. Grossman award from the American Association of Endodontists. Adding to a long list of accomplishments, Professor Paul Santerre was honoured with the Canadian Biomaterials Society's (CBS) Lifetime Achievement Award.

With a record 12 NSERC Discovery grants held by researchers at the Faculty this year, the school qualifies for the establishment of an additional Canada Research Chair, Tier 2, in an NSERC-supported area. These prestigious national recognitions have been previously awarded to several of the Faculty's researchers. Currently, Celine Levesque holds the Tier 2 CRC in Oral Microbial Genetics, and Chris McCulloch holds a Tier 1 CRC in Matrix Dynamics. Barry Sessle formerly held a Tier 1 CRC.

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**APPOINTMENTS, TENURE AND PROMOTIONS**

The Faculty of Dentistry is the lead Faculty for the University of Toronto Centre for the Study of Pain, an exceptional cross-disciplinary, extra-departmental unit at the University of Toronto that also includes the Faculties of Pharmacy, Nursing and Medicine.

**Limor Avivi-Arber**

Granted tenure and promoted to Associate Professor, Prosthodontics

**Vanessa Mendes**

Appointed as full-time Assistant Professor, teaching stream, Periodontics

Named Director of the Graduate Specialty Program in Periodontics

**Michelle Wong**

Appointed as full-time Assistant Professor, teaching stream, Dental Anaesthesia

**Rachael Bosma** (Faculty of Dentistry)

**& Rob Bonin** (Leslie Dan Faculty of Pharmacy)

Named Co-Directors for the University of Toronto Centre for the Study of Pain

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**FACULTY RETIREMENTS**

We want to acknowledge the years of dedicated service of this year's faculty retirees:

Associate Professor

**Peter Birek**

Assistant Professor

**Julia Rukavina**

Associate Professor

**Wafa El-Badrawy**

Associate Professor

**William Wilson**

Professor

**Omar El-Mowafy**

Assistant Professor

**Romanita Ghilzon**

Assistant Professor

**Hartley Kestenberg**

Associate Professor

**Angelos Metaxas**



## FACULTY AWARDS

Anne Dale was awarded the CDA Distinguished Service Award ↓

### Faculty of Dentistry Awards

#### A. Bruce Hord Master Teacher Awards

**Beatrice Leung**  
**Anthony (Joseph) Stokl**

#### W.W. Wood Award

**Joel Rosenbloom**



### Toronto/Provincial Awards

#### **Joel Rosenbloom and team**

Richies Award, Centre for Addiction and Mental Health (CAMH) Clinic

### National Awards & Honours

#### **Anne Dale**

Canadian Dental Association, Distinguished Service Award

#### **Marco Magalhaes**

Early Career Investigator Program Award, Canadian Institutes of Health Research and Ontario Institute for Cancer Research

#### **Paul Santerre**

Canadian Biomaterials Society's Lifetime Achievement Award

### International Awards & Recognitions

#### **Emel Arat, Aviv Ouanounou**

Fellows, American College of Dentists

#### **Anil Kishen**

Louis I. Grossman Award, American Association of Endodontics

#### **Grace de Souza**

Elected Vice President, Women in Science Network, an IADR group

#### **Yoav Finer**

2020 Peyton-Skinner Award, Dental Materials Group, International Association for Dental Research

#### **Barry Sessle**

IADR Gold Medal

Award named in his honour: **IADR InFORM Barry J Sessle Postdoctoral Award**, will be awarded annually to a postdoctoral researcher working in a higher academic institution, and will be worth \$1,000 USD.

# COMMUNITY IMPACT

03

Due to the global coronavirus pandemic, numerous projects and events scheduled for 2019 – 20 were postponed or cancelled.

The Faculty of Dentistry's inaugural Wellness Month, originating from a strategic plan working group, came to an early end in mid-March. The month-long series of presentations, talks and events was organized to bring more awareness of resources available to promote wellness among students, staff, faculty and instructors.

The pandemic had a number of other effects on the delivery of community events. The University of Toronto held its first ever virtual convocation on June 2, to an audience in the tens of thousands. Later that week, on June 5, the date students would have originally come together for the annual Licensing and Awards ceremony and Convocation, the Faculty of Dentistry held an online awards ceremony.

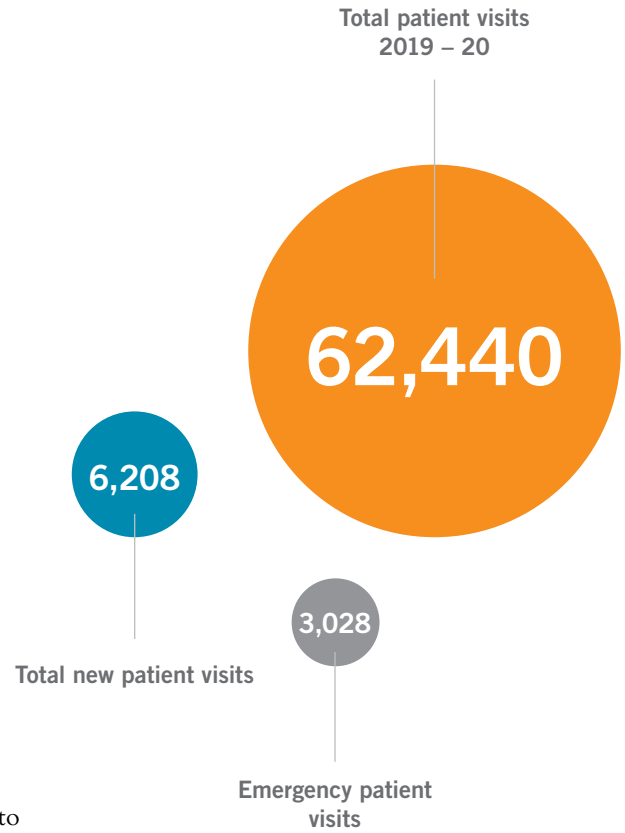
Continuing Dental Education (CDE) at the Faculty of Dentistry, in collaboration with Canada's other dental schools, began offering free CDE courses for this year's graduates. The

Advancement and Alumni Relations office launched an e-newsletter and successful webinar series for alumni, with programming specific to helping alumni cope during the pandemic. The first webinar alone, "Dentistry in a post pandemic world," drew a remarkable 941 registrants for its April 30 premiere.

While the last four months of the academic year challenged the entire community, the Faculty of Dentistry and alumni rallied together in support of each other and the medical community. The Faculty, numerous faculty members and alumni donated PPE to local-area hospitals. U of T Dentistry made available to Ontario hospitals the use of three general anaesthesia machines equipped with ventilators, along with the general anaesthesia medication propofol. Late this spring, a U of T Dentistry student organized the donation of 400 3D-printed face shields through student collective, 3D PPE.

The first webinar, "Dentistry in a post pandemic world," drew **941** registrants.

CLINICS



The Faculty of Dentistry clinics closed its doors to patients in mid-March to help curb the spread of COVID-19. The closure greatly affected the number of patients that were seen during the academic year, dropping the number of patient visits by approximately 30,000.

During the initial phase of the closure, elective care ceased, in keeping with the direction given by the

Royal College of Dental Surgeons of Ontario, and U of T Dentistry was able to offer emergency treatment to existing patients. A small but dedicated group of faculty and staff treated approximately 125 emergency patients from mid-March to June 30.

ALUMNI

The Faculty of Dentistry enjoyed its most successful fundraising year to date in 2019 – 20, bringing in a record-breaking \$6,371,500 in donations, thanks to a number of generous gifts.

We wish to thank all of our donors and volunteers who contributed to our success this past year, and whose generosity has made a huge impact on our students, as well as the health and well-being of patients both abroad and at home.

NO. OF LIVING ALUMNI

**8,386**

TOTAL DONATIONS 2019 – 20

**\$6,371,500**

354 Donors



**MAJOR GIFTS IN 2019 – 20**

**\$5.6M**

13 DONORS

**LEADERSHIP ANNUAL GIVING**

**\$250K**

313 DONORS

**SPONSORSHIPS**

**\$150K**

21 DONORS

**GIFTS IN KIND**

**\$350K**

7 DONORS

Scholarships and student support	\$355,483
Access to care	\$28,106
Capital projects (incl. gifts in kind)	\$407,240
Student outreach	\$53,400
Research and other programs	\$5,375,771
Sponsorships	\$151,500

Note: The reporting period extends from April 1, 2019 to March 31, 2020, following the fiscal year



## ALUMNI CONT'D

Alumni of Influence Awards

[replaces U of T Dentistry's Award of Distinction]

The Alumni of Influence awards were newly unveiled this spring to celebrate the numerous and diverse ways that our alumni impact their patients, communities and society as a whole. We proudly announce our inaugural recipients of this award.

**Anne Dale,**  
DDS 5T8

**Shiva Shadmand,**  
9T3 PhD, 0T3 MSc Ortho

**Susan Sutherland,**  
DDS 8T4

University of Toronto Arbor Awards

**Izchak Barzilay,**  
DDS 8T3

**Bill Kerr**

Mentors and mentees both  
gain through global  
service learning



A global service learning rotation is a life-changing experience that sharpens students' skills while gaining valuable experience. For their teachers, it's an opportunity to mentor students and to give back to the University as they treat populations in need.

Izchak Barzilay, a 1983 Faculty of Dentistry graduate, is one such mentor. Although he has been an instructor in dentistry at the Faculty for more than 33 years (as well as holding down a successful private practice) Barzilay branched out into volunteer dentistry in the regions around Kabale, Uganda, in 2014. He travels annually to the region with his own not-for-profit, *Build Your Smile Dental Foundation*, along with two DDS4 students. Over the course of eight days, the group sets up makeshift dental hospitals in fields and villages, performing hundreds of procedures.

Students benefit as much as the patients. On the cusp of graduation, fourth year students become faster at performing procedures, more adaptable and learn to think outside the box. They also gain insight as to how their skills and knowledge support underserved populations. A number of students have become repeat volunteers post-



“

I’m going to do more of this in the future”



↑

Bill Kerr and Izchak Barzilay with Daniel Haas, Dean of the Faculty of Dentistry. Barzilay and Kerr received Arbor Awards from the University of Toronto on Oct. 10, 2019 for exceptional volunteerism.

IMAGE: COURTESY DAVE HANSON

graduation or support the Foundation’s work in shelters across the GTA.

Alongside his dentistry skills, Marshall Kurniawan’s rotation to Honduras last February taught him what he truly valued in a future career path. Working under William Kerr, site supervisor of the programs in Honduras and Haliburton County in Ontario, Kurniawan realized that mentorship “is so important as part of the profession. It goes such a long way to develop you professionally and as a person.”

Kerr began volunteering his services as a dentist in El Porvenir, Honduras, in 2009. He’s been supervising the Faculty’s students on international rotations since 2017, offering free dental care to the children of that economically depressed area, where many of the town’s young children had rampant decay. Two students have attended the Honduras site each year since 2017; in 2018, an additional two-student rotation began in Guatemala.

Kerr’s international projects led to one closer to home: he began Volunteer Dental Outreach for Haliburton County, a charity offering free dentistry

to low income adults in central Ontario. A pilot project rotation with the school’s DDS students began in 2016 – 17.

“I try to teach students that ultimately they always have to do their very best for every patient, and as they prepare to graduate, they need to hone their skills, to get better and faster.”

The students are just as affected. “He’s my Yoda,” says Kurniawan of his mentor, Kerr. “I’m going to do more of this in the future. I want to do what Dr. Kerr is able to do.”

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**COMMUNITY EVENTS**

<b>Oct. 24, 2019</b>	Alumni reception and CE lecture with Assistant Professor Jose Lança, “Overview on cannabis and its implications for dental practice.”
<b>Nov. 19, 2019</b>	Dr. George Zarb Clinical Research Lecture with Dr. Regina Mericske-Stern (University of Bern, Switzerland), “Integration of implants in the treatment plans of elderly patients.”
<b>Dec. 3, 2019</b>	Dean’s Reception: An evening of appreciation for donors, volunteers and Instructors in Dentistry
<b>Feb. 11, 2019</b>	Research Day, “Artificial Intelligence in dentistry” Keynote lectures: Associate Professor Ervin Sejdic (University of Pittsburgh), Professor Igor Jurisica, Senior Scientist at the Krembil Research Institute
<b>March, 2020</b>	Wellness Awareness Month (some events cancelled)
<b>March 5, 2020</b>	U of T Dentistry Alumni Reception, Pacific Dental Conference
<b>April 2020 —</b>	Alumni and advancement webinars, held monthly
<b>May 8, 2020</b>	Great Alumni Event — All U of T Dentistry alumni reunion (deferred until May 2021)
<b>June 5, 2020</b>	Awards and Graduation Event (virtual awards ceremony)
<b>June 12, 2020</b>	Dentantics (held as online event)

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**“ABOVE AND BEYOND” — STAFF EXCELLENCE AWARDS**

This year, the Faculty of Dentistry Staff Excellence Awards recognized two groups that have shown exceptional leadership, resilience and professionalism in the face of the global coronavirus pandemic, from organizing all aspects of patient care as well as providing chairside assistance to transforming the Faculty of Dentistry into a virtual work environment within days of its physical closure.

Established in 2016, the awards celebrate a staff member or members who demonstrate professionalism, teamwork, contribution to morale and work excellence.

**Clinic Team Leads**
**Jennifer Lanteigne**

(Oral Surgery and Dental Anaesthesia)

**Mary Ann Lisotti**

(Clinic 1)

**Information and Instructional Technology Services (IITS) team**

**James Fiege (manager)**  
**Marika Banfi**  
**Jeff Comber**  
**Charles Cox**

**Andrea Cormier**  
**Marisa Curmi**  
**Danny Jeronimo**  
**Christine Nicolau Kennedy**

**Michael Limberger**  
**Marshall Mednick**  
**Nick Fallavollita**



Having launched its popular online learning platform **utooth** (utooth.ca) several years ago, the Continuing Dental Education program at the University of Toronto, Faculty of Dentistry was able to navigate the cessation of in-person learning seamlessly. While some in-person courses had to be cut short, online learning boomed. The report below, covering the period of July 1, 2019 to June 30, 2020, does not account for the hundreds of courses offered freely to new graduates of the class of 2020 (whom have been offered free access to utooth throughout 2020), faculty and instructors in dentistry.

The numbers, meanwhile, say it all. While in-class registration dropped by 110 in the current year, the number of online courses doubled. In 2018 – 19, 29 courses were available on the utooth platform, with 3,927 courses purchased. This year, 7,548 courses were purchased, and an additional seven courses were created.

**39**

**CLASSROOM COURSES OFFERED**

**1,456**

**LEARNERS REGISTERED FOR IN-CLASS COURSES**

**36**

**UTOOTH.CA ONLINE LEARNING COURSES OFFERED IN 2019 – 20**

**7,548**

**CONTINUING DENTAL EDUCATION ONLINE (UTOOTH) COURSES PURCHASED IN 2019 – 20**

Note: Reporting period is July 1, 2019 to June 30, 2020



# RESEARCH IMPACT

04

Overnight, as news of the COVID-19 pandemic circulated, the world changed. While U of T Dentistry's clinical facilities, in-person teaching and most research activity shut down, some researchers were granted permission from the University of Toronto to perform essential or COVID-19 related research.

Professor Michael Glogauer, who is also Chief of Dentistry at Princess Margaret Cancer Centre, began researching the feasibility of repurposing an epithelial cell test to create a rapid, low-cost COVID-19 diagnostic. The test entails a simple, non-invasive oral cavity swab and rinse. COVID-19 binds to the body's epithelial cells through ACE-2 receptors and, as Glogauer notes, the tongue is a prime place to spot them. Says Glogauer, "the tongue is a big net. It will always be positive if an infection is present." Results can be obtained in mere hours, for approximately \$30 per test.

In a collaborative project with National Jewish Health — the top-ranked respiratory research hospital in the U.S. — Professor Chris McCulloch has discovered a naturally-derived

peptide "drug" that could be useful to combat inflammation of all varieties, and which shows promise in fighting acute respiratory illnesses such as COVID-19.

Called TAT CARMIL1, the discovery is a combination of two naturally-occurring peptides that, when combined, work together to penetrate a cell's membrane in order to dampen an acute inflammatory response. In this first *ex vivo* study, the peptide reduced collagen degradation by up to 43 per cent. If deployed early enough, the researchers say, the peptide could allay some of the worst damage caused by acute inflammatory responses. Next, the researchers hope to continue their successful investigation of this peptide drug through *in vivo* studies.

The following pages provide some objective metrics to highlight our Faculty's leading accomplishments in research grant funding as well as scholarly output and impact

GRANT SUCCESS

2019 – 20 FISCAL YEAR

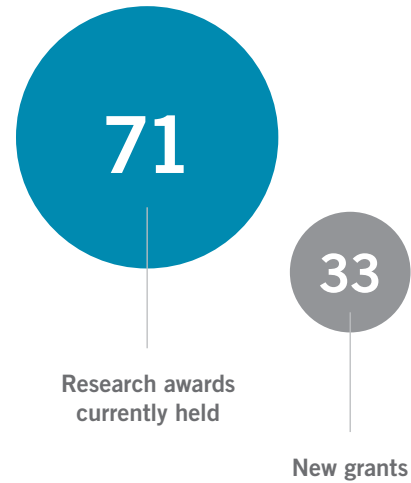
Research Grants and Awards

TOTAL

**\$5,474,800**

NEW GRANT FUNDS

**\$4,960,000**



Total Research Funding for **APRIL 1, 2019 — MARCH 31, 2020**

Associations	\$42,310
CIHR	\$2,508,300
NSERC	\$504,311
Corporations	\$257,680
Education	\$387,640
Federal Government	\$901,500
Ontario Prov. Govt.	\$426,000
Foundations	\$63,560
Internal customers	\$50,000
International Orgs.	\$20,820
Other	\$312,670
<b>TOTAL FUNDING</b>	<b>\$5,474,800</b>

Note: The reporting period for grants extends from April 1, 2019 to March 31, 2020

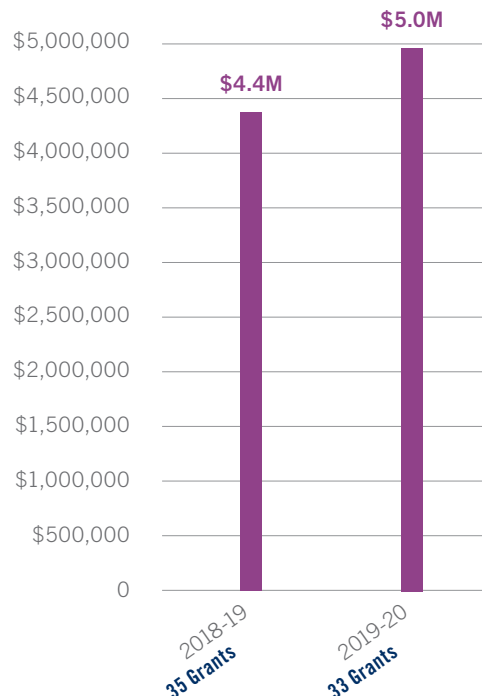
## Total Research Funding (Five-Year Comparison)

Despite the downward trend of national grant funds overall, the Faculty of Dentistry at the University of Toronto has been markedly competitive. Grant funding has been consistent throughout the last five years, both in the number of grants awarded as well as the dollar amounts of those grants. The one exception has been 2018-19, when one very successful \$5.77 million grant led to an exceptional \$10.5 million in research grants.



## New Grants (Two-Year Comparison)

A two-year comparison of new research grants awarded shows that U of T Dentistry researchers are likewise consistent in the number of new awards won from year to year.



**Note:** The reporting period for grants extends from April 1 to March 31 annually



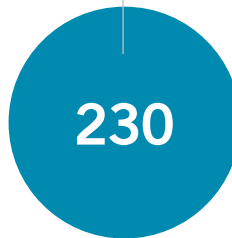
SCHOLARLY OUTPUT AND PUBLICATION IMPACT 2019 – 20



Note: Total publications includes disciplines outside of dentistry such as medicine and biochemistry, as well as other multidisciplinary publications

Publications 2019 – 20

Total Publications, all disciplines



Citations, all disciplines



Data source: Scopus, retrieved on July 6, 2020

Top 10 Published Authors 2015 – 2020

FACULTY MEMBERS	SCHOLARLY OUTPUT	MOST RECENT PUBLICATION	CITATIONS	H-INDEX
Anil Kishen	73	2020	495	34
Michael Glogauer	67	2020	1,173	19
Amir Azarpazhooh	63	2020	336	23
Carlos Quiñonez	60	2020	262	16
Craig Simmons	53	2020	568	46
Boris Hinz	50	2020	1,380	53
Barry Sessle	48	2020	278	49
Christopher McCulloch	40	2020	332	57
J. Paul Santerre	33	2020	264	46
Howard Tenenbaum	30	2020	235	33

Data source: Scopus, up to June 24, 2020

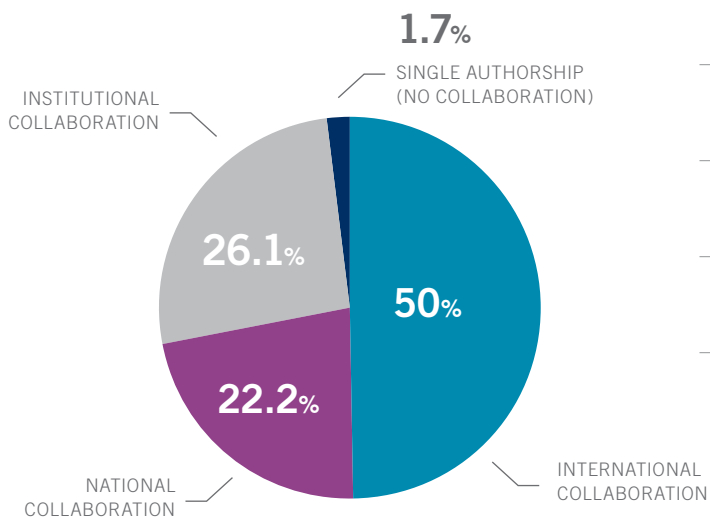
TOP 10 MOST-CITED PUBLICATIONS 2019 – 20

	PUBLICATIONS	CITATIONS
1	<b>Lodyga, M., Cambridge, E., Karvonen, H.M., Pakshir, P.,</b> Wu, B., Boo, S., <b>Kiebalo, M.,</b> Kaarteenaho, R., <b>Glogauer, M.,</b> Kapoor, M., Ask, K., <b>Hinz, B.</b> Cadherin-11–mediated adhesion of macrophages to myofibroblasts establishes a profibrotic niche of active TGF-β (2019) Science Signaling, 12 (564), art. no. eaao3469.	25
2	<b>Pakshir, P.,</b> Alizadehgiashi, M., Wong, B., <b>Coelho, N.M.,</b> Chen, X., Gong, Z., Shenoy, V.B., <b>McCulloch, C., Hinz, B.</b> Dynamic fibroblast contractions attract remote macrophages in fibrillar collagen matrix (2019) Nature Communications, 10 (1), art. no. 1850.	14
3	<b>Hinz, B., McCulloch, C.A., Coelho, N.M.</b> Mechanical regulation of myofibroblast phenoconversion and collagen contraction (2019) Experimental Cell Research, 379 (1), pp. 119-128.	14
4	Furtado de Mendonca, A., Shahmoradi, M., de Gouvêa, C.V.D., <b>De Souza, G.M.,</b> Ellakwa, A. Microstructural and Mechanical Characterization of CAD/CAM Materials for Monolithic Dental Restorations (2019) Journal of Prosthodontics, 28 (2), pp. e587-e594.	11
5	Silvestre-Roig, C., Fridlender, Z.G., <b>Glogauer, M.,</b> Scapini, P. Neutrophil Diversity in Health and Disease (2019) Trends in Immunology, 40 (7), pp. 565-583.	10
6	Schleip, R., Gabbiani, G., Wilke, J., Naylor, I., <b>Hinz, B.,</b> Zorn, A., Jäger, H., Breul, R., Schreiner, S., Klingler, W. Fascia is able to actively contract and may thereby influence musculoskeletal dynamics: A histochemical and mechanographic investigation (2019) Frontiers in Physiology, 10 (APR), art. no. 00336, .	10
7	Corrêa, M.G., Absy, S., <b>Tenenbaum, H.,</b> Ribeiro, F.V., Cirano, F.R., Casati, M.Z., Pimentel, S.P. Resveratrol attenuates oxidative stress during experimental periodontitis in rats exposed to cigarette smoke inhalation (2019) Journal of Periodontal Research, 54 (3), pp. 225-232.	9
8	Yu, M., Wang, L., Zhang, W., <b>Ganss, B.</b> An Evolutionarily Conserved Subdomain in Amelotin Promotes Amorphous Calcium Phosphate-to-Hydroxyapatite Phase Transition (2019) Crystal Growth and Design, 19 (4), pp. 2104-2113.	6
9	Marashdeh, M.Q., <b>Gitalis, R., Lévesque, C., Finer, Y.</b> Endodontic pathogens possess collagenolytic properties that degrade human dentine collagen matrix (2019) International Endodontic Journal, 52 (4), pp. 416-423.	6
10	Amarante, J.E.V., Pereira, M.V.S., <b>de Souza, G.M.,</b> Pais Alves, M.F.R., Simba, B.G., dos Santos, C. Roughness and its effects on flexural strength of dental yttria-stabilized zirconia ceramics (2019) Materials Science and Engineering A, 739, pp. 149-157.	6

**TOP FIVE MOST-CITED PUBLICATIONS 2015 – 2020**

	PUBLICATIONS	CITATIONS
1	<b>Sheikh, Z.,</b> Najeeb, S., Khurshid, Z., <b>Verma, V., Rashid, H., Glogauer, M.</b> Biodegradable materials for bone repair and tissue engineering applications (2015) <i>Materials</i> , 8 (9), pp. 5744-5794.	208
2	<b>Hinz, B.</b> The extracellular matrix and transforming growth factor-β1: Tale of a strained relationship (2015) <i>Matrix Biology</i> , 47, pp. 54-65.	203
3	<b>Sheikh, Z., Brooks, P.J., Barzilay, O., Fine, N., Glogauer, M.</b> Macrophages, foreign body giant cells and their response to implantable biomaterials (2015) <i>Materials</i> , 8 (9), pp. 5671-5701.	143
4	<b>Hinz, B.</b> Myofibroblasts (2015) <i>Experimental Eye Research</i> , 142, pp. 56-70.	111
5	Szeto, S.G., Narimatsu, M., Lu, M., He, X., Sidiqi, A.M., Tolosa, M.F., Chan, L., De Freitas, K., Bialik, J.F., Majumder, S., <b>Boo, S., Hinz, B.,</b> Dan, Q., Advani, A., John, R., Wrana, J.L., Kapus, A., Yuen, D.A. YAP/TAZ are mechanoregulators of TGF-β-smad signaling and renal fibrogenesis (2016) <i>Journal of the American Society of Nephrology</i> , 27 (10), pp. 3117-3128.	101

**Scholarly Output in Publications COLLABORATIONS 2019 – 20**



	PUBLICATIONS	CITATIONS	CITATIONS PER PUBLICATION
<b>International Collaboration</b>	115	172	1.5
<b>National Collaboration</b>	51	63	1.2
<b>Institutional Collaboration</b>	60	52	0.9
<b>Single Authorship (No Collaboration)</b>	4	3	0.8



↑  
Dean Daniel Haas and Vice Dean, Research, Bernhard Ganss meet with senior leaders from UNESP Araçatuba, Brazil to develop research collaborations

**In addition to** its service learning programs, U of T Dentistry has forged exciting new collaborations and partnerships with dental education and research institutions around the globe.

Over the past year, U of T Dentistry hosted students and faculty from three universities with whom it has recently signed Memoranda of Understanding: Zhejiang University, China; Okayama, University, Japan; and Niigata University, Japan. Students from U of T Dentistry also travelled to Niigata as part of that exchange.

Additionally, the Faculty began a research collaboration with UNESP Araçatuba in Araçatuba, Brazil. In fall, 2019, Vice-Dean, Research, Bernhard Ganss completed a two-week academic collaboration at the school.



Dean Daniel Haas visits Niigata University, Japan. Left: Professor Yoko Ishida oversees the exchange program, with Dean Daniel Haas and (right) students Rina Igarashi and Mana Ando

## NATIONAL BENCHMARKING

**Compared with Canada's other nine dentistry schools,** U of T Dentistry performs with consistent strength in knowledge production, how that knowledge is received by other researchers, and finally, its impact and circulation within society.

U of T Dentistry ranks first among Canadian schools across a number of research metrics including

scholarly output (in the discipline of dentistry as defined by SciVal), citations count and views count. The school also ties for first with the University of Saskatchewan in “publications in top 10% journal percentiles for 2019–20,” a metric that determines the percentage of an institution’s publications that appear in the top percentage of the most-cited journals.

2019 – 20 Data

CANADIAN UNIVERSITIES	SCHOLARLY OUTPUT (DENTISTRY)	VIEWS COUNT	CITATION COUNT	NO. OF CITING COUNTRIES	MASS MEDIA (ONLINE)
Dalhousie University	21	205	18	19	169
McGill University	82	556	43	24	215
University of Alberta	127	1,205	87	37	166
University of British Columbia	109	926	66	36	283
Université Laval	16	212	13	13	29
University of Manitoba	25	180	27	31	172
University of Montreal	30	213	15	15	2
University of Saskatchewan	12	219	49	28	99
<b>University of Toronto</b>	<b>168</b>	<b>1,370</b>	<b>137</b>	<b>47</b>	<b>648</b>
Western University	28	188	12	11	277

Five-Year Comparison 2015 – 20

CANADIAN UNIVERSITIES	SCHOLARLY OUTPUT (DENTISTRY)	VIEWS COUNT	CITATION COUNT	NO. OF CITING COUNTRIES	MASS MEDIA (ONLINE)
Dalhousie University	118	1,596	698	73	423
McGill University	292	3,691	1,648	88	1,235
University of Alberta	405	5,408	1,512	89	711
University of British Columbia	341	4,377	1,552	88	1,927
Université Laval	68	1,307	546	62	138
University of Manitoba	106	1,601	860	74	756
University of Montreal	108	1,481	779	77	60
University of Saskatchewan	30	476	112	46	389
<b>University of Toronto</b>	<b>556</b>	<b>7,466</b>	<b>2,746</b>	<b>109</b>	<b>3,508</b>
Western University	97	1,359	429	61	914



That performance strength is reiterated from year to year; in a five-year analysis of the same research metrics, U of T leads in all categories, in comparison to the other Canadian schools.

### Percentage of Publications in Top 10% Journal Percentiles 2019 – 20

Dalhousie University	23.8
McGill University	19.8
University of Alberta	18.9
University of British Columbia	23.4
Université Laval	18.8
University of Manitoba	27.3
University of Montreal	23.3
University of Saskatchewan	50.0
<b>University of Toronto</b>	<b>50.0</b>
Western University	21.4

### Percentage of Publications in Top 10% Journal Percentiles 2015 – 20

Dalhousie University	30.2
McGill University	21.8
University of Alberta	21.7
University of British Columbia	26.1
Université Laval	17.2
University of Manitoba	31.0
University of Montreal	23.5
University of Saskatchewan	27.6
<b>University of Toronto</b>	<b>37.3</b>
Western University	24.2

**DATA SOURCE:** SciVal, derived from Scopus, retrieved July 6, 2020

#### Scholarly Output

indicates the prolificacy of an entity: how many publications in the field of dentistry does this entity have indexed in Scopus?

#### Views Count

indicates the total usage impact of an entity: how many views have this entity's publications received? Views Counts in SciVal are generated from usage data in Scopus. The metric is the sum of abstract views and clicks on the link to view the full-text at the publisher's website. These events cover all views from both subscribed and trial customers.

#### Citation Count (no self-citation)

indicates the total citation impact of an entity: how many citations have this entity's publications received? There is a concern that excessive self-citations may be artificially inflating the number of citations, therefore the data below excludes self-citations.

#### Number of Citing Countries

indicates the geographical visibility of an entity's publications: from how many distinct countries have this entity's publications received citations?

#### Percentage of Publications in Top 10% Journal Percentiles

indicates the extent to which an academic institution's publications are present in the most-cited journals in the Scopus database: what percentage of publications are in the top 10% of the most-cited journals indexed by Scopus?

#### Mass Media (Online)

refers to the total number of times that the media referred to researchers of the selected institution(s). Online Mass Media considers media sources from 2014 onwards and is currently focused on media articles in the English language only.

GLOBAL CONTEXT — U.S. BENCHMARKING: FIVE YEARS

**U of T Dentistry also remains highly competitive**

in relation to U.S. schools, many of which enjoy top rank in the 2020 Academic Ranking of World Universities, Dentistry and Oral Sciences subject ranking. Benchmarked against some of the leaders of dental education, U of T Dentistry shows its value as a research institution.

In the 2019 – 20 academic year and throughout the last five years, U of T Dentistry leads in comparison to U.S. peer schools in publications in the top 10 per cent most cited journals, suggesting that U of T Dentistry’s

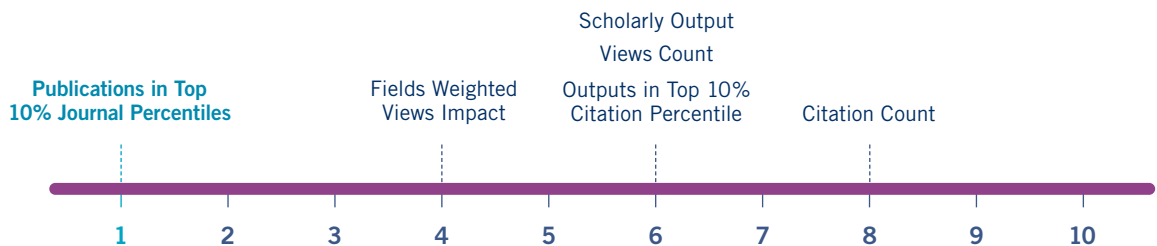
researchers continue to produce highly relevant knowledge that is published in some of the world’s top journals. Supporting this idea is the school’s standing in field-weighted views impact — a measure of how views received by the school’s publications compare with the world average in the field of dentistry — ranking fourth against top U.S. schools.

Over a five-year period, U of T Dentistry ranks sixth against top U.S. schools in categories such as scholarly output (dentistry), views count and outputs in top 10 per cent citation percentile.

2015 – 20 Data

INSTITUTION	SCHOLARLY OUTPUT (DENTISTRY)	VIEWS COUNT	FIELD-WEIGHTED VIEWS IMPACT	CITATION COUNT (NO SELF-CITATION)
Columbia University	322	4,086	1.06	2,327
Harvard University	1,038	13,458	1.05	5,843
New York University	866	11,318	1.08	4,355
University of California at Los Angeles	503	6,399	1.11	2,684
University of California at San Francisco	393	6,529	<b>1.33</b>	3,100
University of Florida	493	5,239	0.87	1,926
University of Iowa	458	5,823	1.06	2,333
University of Michigan, Ann Arbor	<b>1,048</b>	<b>15,299</b>	1.25	<b>6,919</b>
University of Minnesota	372	5,068	1.04	2,283
University of North Carolina	678	9,608	1.20	4,188
University of Pennsylvania	509	6,800	1.11	2,971
University of Toronto	556	7,466	1.14	2,746
University of Washington	690	9,712	1.10	4,949

**University of Toronto Ranking (amongst U.S. Universities)**



## Percentage of Publications in Top 10% Citation Percentile (no self-citation)

Columbia University	10.9
Harvard University	9.5
New York University	8.7
University of California at Los Angeles	8.3
University of California at San Francisco	13.2
University of Florida	7.9
University of Iowa	8.5
University of Michigan, Ann Arbor	11.3
University of Minnesota	11.0
University of North Carolina	9.9
University of Pennsylvania	10.6
University of Toronto	10.4
University of Washington	9.6

## Percentage of Publications in Top 10% Journal Percentiles

Columbia University	16.7
Harvard University	24.1
New York University	19.4
University of California at Los Angeles	28.1
University of California at San Francisco	25.0
University of Florida	24.5
University of Iowa	19.0
University of Michigan, Ann Arbor	33.3
University of Minnesota	26.0
University of North Carolina	28.2
University of Pennsylvania	26.9
<b>University of Toronto</b>	<b>37.3</b>
University of Washington	24.1

DATA SOURCE: SciVal, derived from Scopus, retrieved July 6, 2020

### Scholarly Output

indicates the prolificacy of an entity: how many publications in the field of dentistry does this entity have indexed in Scopus?

### Views Count

indicates the total usage impact of an entity: how many views have this entity's publications received? Views Counts in SciVal are generated from usage data in Scopus. The metric is the sum of abstract views and clicks on the link to view the full-text at the publisher's website. These events cover all views from both subscribed and trial customers.

### Field-Weighted Views Impact

indicates how the number of views received by an entity's publications compares with the average number of views received by all other similar publications in the Scopus database: how do the views received by this entity's publications compare with the world average for Scopus?

### Citation Count (no self-citation)

indicates the total citation impact of an entity: how many citations have this entity's publications received? There is a concern that excessive self-citations may be artificially inflating the number of citations, therefore the data below excludes self-citations.

### Percentage of Publications in Top 10% Citation Percentile

indicates the extent to which an entity's publications are present in the most-cited percentiles of the Scopus database. What is the percentage of an academic institution's publications are in the top 10% of the most-cited publications in Scopus? There is a concern that excessive self-citations may be artificially inflating the number of publications that appear in the top percentiles, therefore the data below excludes self-citations.

### Percentage of Publications in Top 10% Journal Percentiles

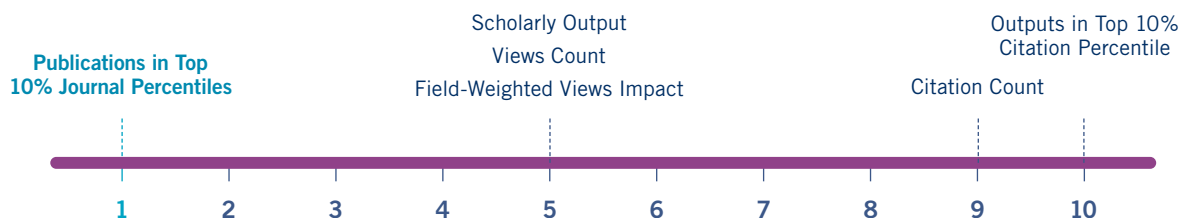
indicates the extent to which an academic institution's publications are present in the most-cited journals in the Scopus database: what percentage of publications are in the top 10% of the most-cited journals indexed by Scopus?

In 2019 – 20, many of those trends were repeated, with U of T Dentistry ranking fifth against U.S. schools in “Field Weighted Views Impact,” and sixth in both scholarly output and views count metrics. Continuing the trend seen in the five-year comparison, U of T Dentistry’s publications were again ranked first against peer U.S. schools in the “Publications in Top 10% Journal Percentiles” metric — the percentage of the school’s publications that are in the top 10 per cent of the most-cited journals indexed by Scopus — at 50 per cent. This category underscores the relevance of U of T’s research.

2019 – 20 Data

INSTITUTION	SCHOLARLY OUTPUT (DENTISTRY)	VIEWS COUNT	FIELD-WEIGHTED VIEWS IMPACT	CITATION COUNT (NO SELF-CITATION)
Columbia University	88	565	0.8	50
Harvard University	<b>323</b>	2,374	0.93	245
New York University	194	1,697	1.04	160
University of California at Los Angeles	116	1,074	<b>1.35</b>	98
University of California at San Francisco	113	897	0.99	80
University of Florida	157	1,166	0.85	158
University of Iowa	136	1,265	1.14	151
University of Michigan, Ann Arbor	304	<b>3,052</b>	1.27	<b>319</b>
University of Minnesota	92	720	0.97	70
University of North Carolina	216	2,034	1.21	175
University of Pennsylvania	155	1,349	1.04	161
University of Toronto	168	1,370	1.14	137
University of Washington	190	1,756	1.13	183

University of Toronto Ranking (amongst U.S. Universities)



DATA SOURCE: SciVal, derived from Scopus, retrieved July 6, 2020

#### Scholarly Output

indicates the prolificacy of an entity: how many publications in the field of dentistry does this entity have indexed in Scopus?

#### Views Count

indicates the total usage impact of an entity: how many views have this entity's publications received? Views Counts in SciVal are generated from usage data in Scopus. The metric is the sum of abstract views and clicks on the link to view the full-text at the publisher's website. These events cover all views from both subscribed and trial customers.

#### Field-Weighted Views Impact

indicates how the number of views received by an entity's publications compares with the average number of views received by all other similar publications in the Scopus database: how do the views received by this entity's publications compare with the world average for Scopus?

#### Citation Count (no self-citation)

indicates the total citation impact of an entity: how many citations have this entity's publications received? There is a concern that excessive self-citations may be artificially inflating the number of citations, therefore the data below excludes self-citations.

#### Percentage of Publications in Top 10% Citation Percentile

indicates the extent to which an entity's publications are present in the most-cited percentiles of the Scopus database. What is the percentage of an academic institution's publications are in the top 10% of the most-cited publications in Scopus? There is a concern that excessive self-citations may be artificially inflating the number of publications that appear in the top percentiles, therefore the data below excludes self-citations.

#### Percentage of Publications in Top 10% Journal Percentiles

indicates the extent to which an academic institution's publications are present in the most-cited journals in the Scopus database: what percentage of publications are in the top 10% of the most-cited journals indexed by Scopus?

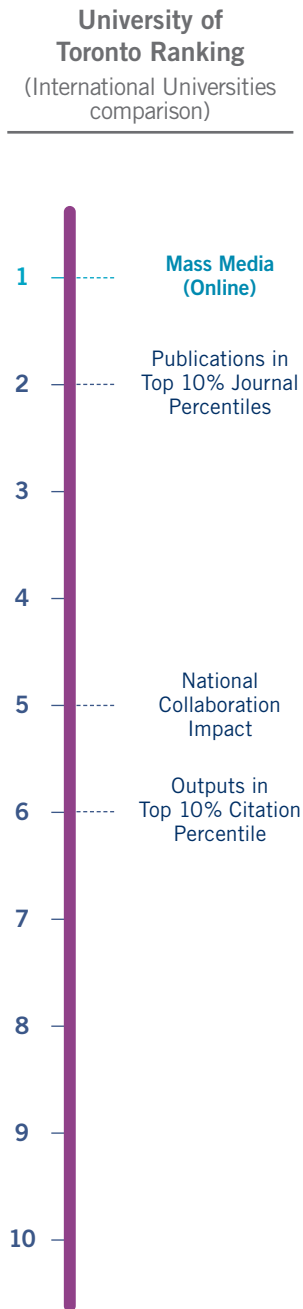
### Percentage of Publications in Top 10% Citation Percentile (no self-citation)

Columbia University	9.1
Harvard University	8.7
New York University	11.3
University of California at Los Angeles	13.8
University of California at San Francisco	15.9
University of Florida	12.7
University of Iowa	12.5
University of Michigan, Ann Arbor	13.8
University of Minnesota	14.1
University of North Carolina	10.2
University of Pennsylvania	11.0
University of Toronto	10.7
University of Washington	12.6

### Publications in Top 10% Journal Percentiles

Columbia University	21.8
Harvard University	24.2
New York University	24.7
University of California at Los Angeles	49.1
University of California at San Francisco	29.6
University of Florida	23.3
University of Iowa	24.8
University of Michigan, Ann Arbor	40.1
University of Minnesota	30.4
University of North Carolina	32.7
University of Pennsylvania	27.9
<b>University of Toronto</b>	<b>50.0</b>
University of Washington	36.1

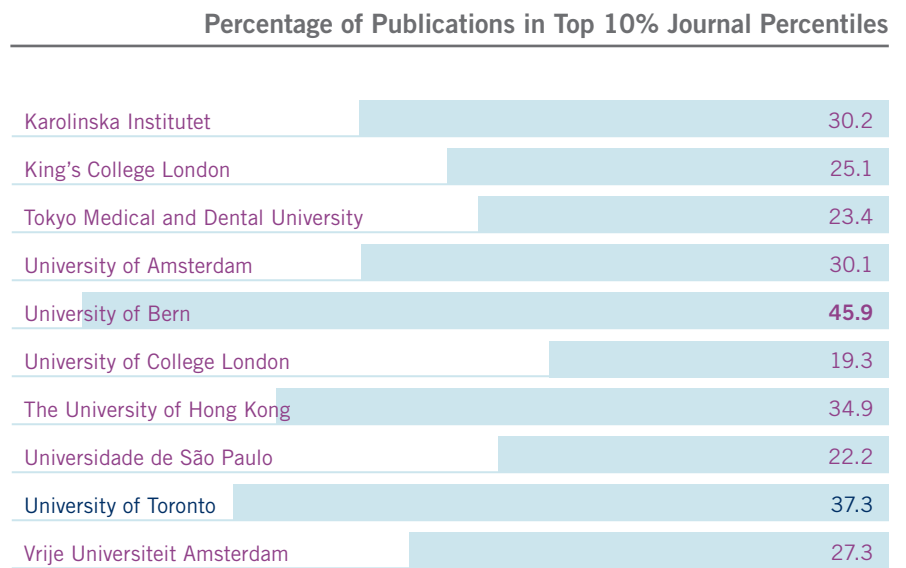




**U of T Dentistry’s research impact** is once again apparent in the context of some of the top-ranked international schools. Set against a sampling of peer schools over a five-year period, U of T Dentistry again scores top marks in the “Publications in Top 10% Journal Percentiles” research metric, second only to the University of Bern.

U of T Dentistry also compares favourably against international peer schools in terms of national collaboration impact (fifth) and outputs in top 10 per cent citation percentile (sixth), a measurement of the percentage of an academic institution’s publications that are in the top 10 per cent of the most-cited publications in Scopus.

But it is in the area of societal impact indicators that U of T Dentistry’s research shines brightest in relation to international peer schools. U of T Dentistry ranks first against these top-rated schools in the metrics: mass media online; mass media print; and media exposure online (English language). When looking at the field-weighted citation of mass media exposure, U of T Dentistry ranks third behind King’s College London and University College London.



## 2015 – 20 Data

INSTITUTION	MASS MEDIA	NATIONAL COLLABORATION IMPACT
Karolinska Institutet	528	8.3
King's College London	2,561	4.4
Tokyo Medical and Dental University	160	3.6
University of Amsterdam	328	7.6
University of Bern	135	8.5
University of College London	2,263	5.0
The University of Hong Kong	1,941	3.5
Universidade de São Paulo	88	3.8
University of Toronto	<b>3,508</b>	5.3
Vrije Universiteit Amsterdam	175	7.3

DATA SOURCE: SciVal, derived from Scopus, retrieved July 6, 2020

### Percentage of Publications in Top 10% Citation Percentile

indicates the extent to which an entity's publications are present in the most-cited percentiles of the Scopus database. What is the percentage of an academic institution's publications are in the top 10% of the most-cited publications in Scopus? There is a concern that excessive self-citations may be artificially inflating the number of publications that appear in the top percentiles, therefore the data below excludes self-citations.

### Percentage of Publications in Top 10% Journal Percentiles

indicates the extent to which an academic institution's publications are present in the most-cited journals in the Scopus database: what percentage of publications are in the top 10% of the most-cited journals indexed by Scopus?

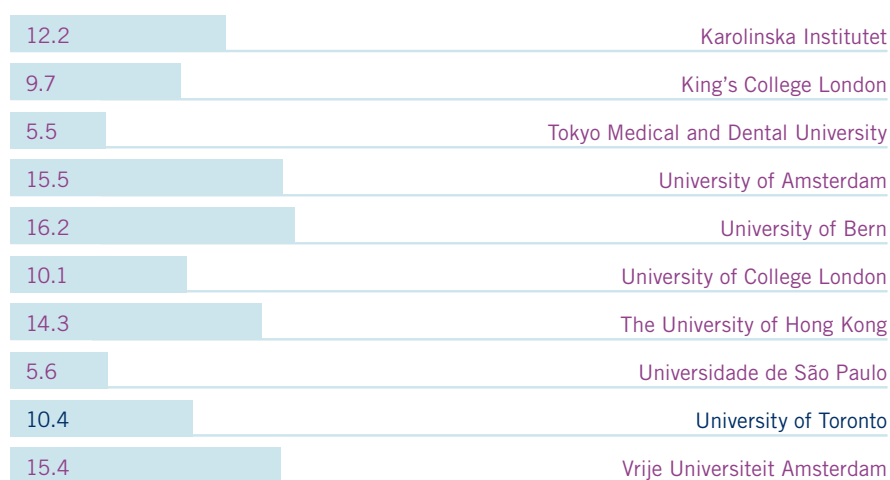
### Mass Media (Online)

refers to the total number of times that the media referred to researchers of the selected institution(s). Online Mass Media considers media sources from 2014 onwards and is currently focused on media articles in the English language only.

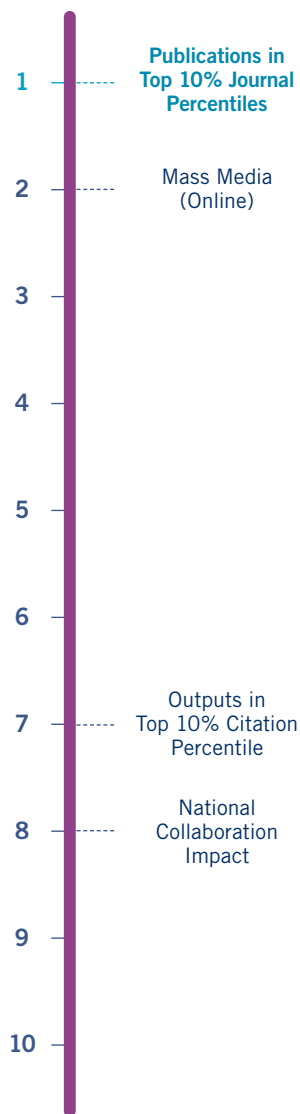
### National Collaboration Impact

indicates the citation impact of an entity's publications with particular types of geographical collaboration: how many citations on average do this entity's nationally co-authored publications receive?

## Percentage of Publications in Top 10% Citation Percentile (no self-citation)



**University of Toronto Ranking**  
(International Universities comparison)



**Those trends remain consistent** over the 2019 – 20 academic year, with U of T Dentistry ranking first in “Publications in Top 10% Journal Percentiles”; seventh in the metric, “Views per Publication”; and sixth in the “Field-Weighted Views Impact” and “Field-Weighted Citation Impact” categories, respectively.

Once again, U of T Dentistry shows strong societal impact, ranking second behind the University of Hong Kong in the mass media (online) metric, third in the mass media print metric, and second in terms of media exposure online in English.

**Percentage of Publications in Top 10% Journal Percentiles**

Karolinska Institutet	31.8
King’s College London	23.9
Tokyo Medical and Dental University	26.1
University of Amsterdam	33.3
University of Bern	46.9
University of College London	14.9
The University of Hong Kong	34.5
Universidade de São Paulo	24.0
<b>University of Toronto</b>	<b>50.0</b>
Vrije Universiteit Amsterdam	31.7

## 2019 – 20 Data

INSTITUTION	MASS MEDIA	NATIONAL COLLABORATION IMPACT
Karolinska Institutet	113	1.2
King's College London	449	0.6
Tokyo Medical and Dental University	20	0.7
University of Amsterdam	48	0.9
University of Bern	33	1.9
University of College London	509	0.6
The University of Hong Kong	<b>771</b>	0.4
Universidade de São Paulo	6	0.6
University of Toronto	648	0.4
Vrije Universiteit Amsterdam	20	1.1

DATA SOURCE: SciVal, derived from Scopus, retrieved July 6, 2020

### Percentage of Publications in Top 10% Citation Percentile

indicates the extent to which an entity's publications are present in the most-cited percentiles of the Scopus database. What is the percentage of an academic institution's publications are in the top 10% of the most-cited publications in Scopus? There is a concern that excessive self-citations may be artificially inflating the number of publications that appear in the top percentiles, therefore the data below excludes self-citations.

### Percentage of Publications in Top 10% Journal Percentiles

indicates the extent to which an academic institution's publications are present in the most-cited journals in the Scopus database: what percentage of publications are in the top 10% of the most-cited journals indexed by Scopus?

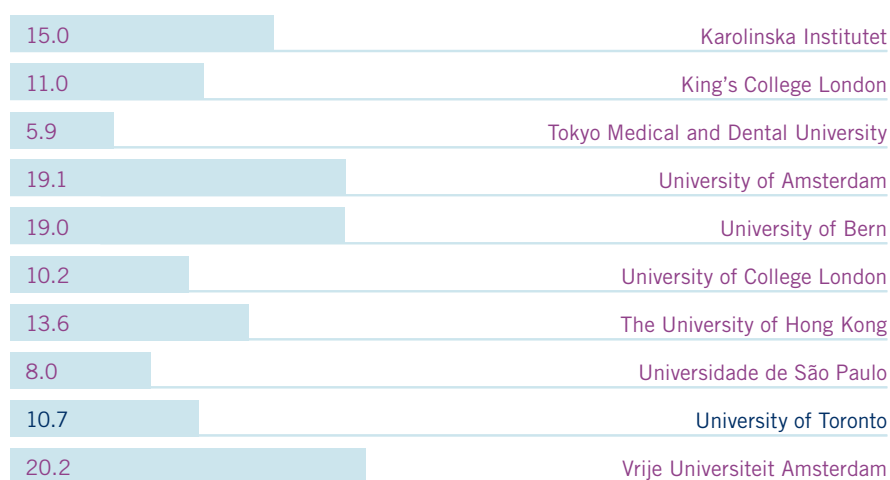
### Mass Media (Online)

refers to the total number of times that the media referred to researchers of the selected institution(s). Online Mass Media considers media sources from 2014 onwards and is currently focused on media articles in the English language only.

### National Collaboration Impact

indicates the citation impact of an entity's publications with particular types of geographical collaboration: how many citations on average do this entity's nationally co-authored publications receive?

## Percentage of Publications in Top 10% Citation Percentile (no self-citation)



**WRITING**

Erin Vollick

**RESEARCH**

Helen He  
Madeline Gerbig

**PHOTOGRAPHY**

Jeff Comber

**DESIGN**

Fresh Art & Design Inc.



**UNIVERSITY OF TORONTO**  
FACULTY OF DENTISTRY

124 Edward Street  
Toronto, ON  
M5G 1G6



[WWW.DENTISTRY.UTORONTO.CA](http://WWW.DENTISTRY.UTORONTO.CA)