

OFFICE OF THE GOVERNING COUNCIL

FOR INFORMATIO	N PUBLIC	OPEN SESSION
то:	Academic Board	
SPONSOR: CONTACT INFO:	Professor Vivek Goel, Vice-President, R 416-978-4984, <u>vp.research@utoronto.ca</u>	
PRESENTER: CONTACT INFO:	See above	
DATE:	May 17, 2017 for May 29, 2017	
AGENDA ITEM:	3	

ITEM IDENTIFICATION: 2016 Annual Report, Division of the Vice-President, Research & Innovation

JURISDICTIONAL INFORMATION: The Academic Board is one of the three Boards of the Governing Council. It is responsible for matters affecting the teaching, learning and research functions of the University, the establishment of University objectives and priorities, the development of long-term and short-term plans and the effective use of resources in the course of these pursuits.

GOVERNANCE PATH:

1. Academic Board [For Information] (May 29, 2017)

PREVIOUS ACTION TAKEN:

This report is provided annually to the Academic Board.

HIGHLIGHTS:

The University of Toronto is Canada's leading research-intensive university and is recognized as one of the top universities worldwide. Our impressive performance nationally and internationally in research and innovation is a reflection of the excellence of our faculty and students and their collaborations with leading researchers, institutions and partners.

Academic Board - 2016 Annual Report, Division of the Vice-President, Research & Innovation

U of T celebrated numerous significant achievements in research and innovation in 2016, and the Vice-President, Research and Innovation portfolio is proud to have played a supportive role in helping our researchers and innovators do what they do best—acquire and apply new knowledge and advance understanding. Our Annual Report highlights their accomplishments and the impact of their research, as well as key performance metrics. The Report also highlights the activities and service improvements we have implemented in order to support research and innovation.

Please explore <u>http://2016.research.utoronto.ca/</u> to learn more about how we continue to build a portfolio that serves a world-class institution that aspires to even higher levels of achievement.

FINANCIAL AND/OR PLANNING IMPLICATIONS: None

RECOMMENDATION: For Information

DOCUMENTATION PROVIDED:

Executive Summary of 2016 Annual Report – Research and Innovation Impact, Division of the Vice-President, Research & Innovation

Link to full online report: <u>http://2016.research.utoronto.ca</u>

2016 VPRI ANNUAL REPORT Executive Summary

Full Report: 2016.research.utoronto.ca

Top 25

U of T ranks 25^{th} or better in 25 QS 2016 subjects

6th

in the world and 1st in Canada for highly cited research

18th

in the world and 1st in Canada in universities working with the world's most innovative companies

A North American Leader

for Research-Based Start-up Companies



in North America for Research Libraries

We're bringing together the best ideas to meet the world's biggest challenges.

The University of Toronto is Canada's research and innovation powerhouse. We are recognized as one of the top universities in the world, one of a handful with both depth and breadth of excellence across a broad range of subjects.

Key measures of our researchers' excellence include global rankings, prestigious national and international honours, and the ability of our researchers to secure competitive, peer-reviewed research grants and apply their knowledge in practice, policy and the marketplace.





Research & Innovation Leadership

U of T Rankings in the Most Prominent Global Rankings Systems

Global Rankings Canadian Rankings									
			1-10	11	-20	21-3	30	31+	
2012		2013		2014		2015		2016	
7	1	8	1	4	1	3	1	4	1
-	-	-	-	14	1	16	1	21	1
21	1	20	1	20	1	19	1	22	1
27	1	28	1	24	1	25	1	27	1
19	1	17	1	20	1	34	2	32	2
	7 - 21 27	7 1 - - 21 1 27 1	2012 20 7 1 8 - - - 21 1 20 27 1 28	7 1 8 1 - - - - 21 1 20 1 27 1 28 1	2012 2013 20 7 1 8 1 4 - - - 14 21 1 20 1 20 27 1 28 1 24	2012 2013 2014 7 1 8 1 4 1 14 1 21 1 20 1 20 1 27 1 28 1 24 1	2012 2013 2014 20 7 1 8 1 4 1 3 14 1 16 21 1 20 1 20 1 19 27 1 28 1 24 1 25	2012 2013 2014 2015 7 1 8 1 4 1 3 1 - - - 14 1 16 1 21 1 20 1 20 1 19 1 27 1 28 1 24 1 25 1	2012 2013 2014 2015 20 7 1 8 1 4 1 3 1 4 - - - - 14 1 16 1 21 21 1 20 1 20 1 19 1 22 27 1 28 1 24 1 25 1 27

Exceptional performance and reputation across a breadth of disciplines

U of T is the only Canadian university to rank among the top 50 globally across all premier international field rankings. It is the highestranked Canadian university in 21 out of 24 such fields. U of T ranks among the top 10 most influential universities in the world on a prestigious list that includes Harvard, Oxford, UC Berkeley, Stanford and Cambridge.

U of T 2016 Major Field Ranking Results

W = World R	ankir	igs	C = Canadian F	Ranki	ngs						
							1-10	1	1-20 21-30	03	1+
QS 2015*	w	С	Shanghai (ARWU) 2016	w	С	THE 2016	w	С	NTU 2016	w	С
Life Sciences & Medicine	12	1	Social Sciences	20	1	Clinical, Pre-clinical & Health	14	1	Clinical Medicine	3	1
Arts & Humanities	22	1	Clinical Medicine & Pharmacy	31	1	Arts & Humanities	15	1	Life Sciences	7	1
Natural Sciences	31	1	Life & Agriculture Sciences	38	2	Computer Science	17	1	Social Sciences	9	1
Social Sciences & Management	41	1	Engineering & Computer Science	50	1	Social Sciences	19	1	Natural Sciences	33	1
Engineering & Technology	49	1	Natural Sciences & Math	51- 75	1	Business & Economics	21	2	Engineerin	g 43	1
						Life Sciences	22	1	Agriculture	e 49	4
						Physical Sciences	25	1			
						Engineering & Technology	31	1			





U of T faculty comprise only 7% of Canada's professoriate, yet they secure a dominant share of prestigious honours nationwide among Canadian faculty.



of Canada's Prestigious International Research Awards

Award-Winning Researchers & Innovators



Rosemary Sullivan Plutarch Award



Graham Collingridge Brain Prize



Geoffrey Ozin World Technology Award in Energy



Nancy Reid Royal Statistical Society Guy Medal in Silver



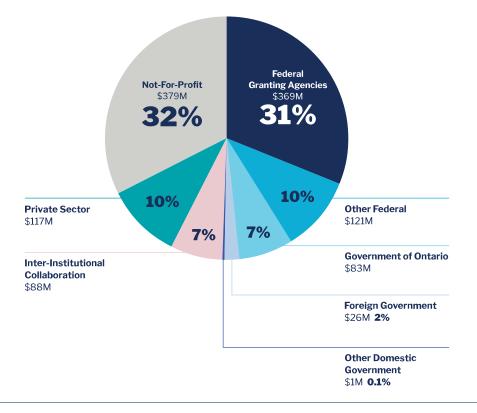


Across three campuses and nine partner hospitals.

15% of Canada's Tri-Agency Research Funding

Research and Innovation Funding

Research Funds Awarded to U of T and Partner Hospitals by Sector (2015-16)







Research that feeds innovation, entrepreneurship and commercialization is thriving at U of T.

2012-13 to 2014-15:

1239 disclosures396 licenses & options64 IP-based startups

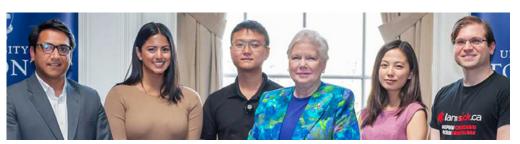


The VPRI helps make U of T a world-leading public research and innovationintensive university by creating an environment that enables our researchers, scholars and learners across our three campuses and affiliated hospitals to do what they do best: advance understanding and apply new knowledge.

Innovation and Startup Powerhouse

U of T is a North American Leader in the number of new IP-based startups, the number of new invention disclosures, and in the number of new licenses and options. Since 2010, the number of patent applications filed per year by our faculty has nearly doubled.

U of T Celebrates Innovation event recognized four ground-breaking inventions in medicine, electronics, and energy production that were created by some of our most entrepreneurial faculty and students: Dr. Feihan Fay Dai, Dr. Kacey Prentice and Prof. Michael Wheeler (CMPF); Dr. Babak Alipanahi, Dr. Andrew Delong and Prof. Brendan Frey (DeepBind); Prof. Cynthia Goh and Dr. Cheng Lu (Phantin); and Mr. Varun Perumal Chadalavada and Dr. Daniel Wigdor (Printem).



Current and former U of T students Dikshant Batra (Nova Sentio), Rhea Puri (SoCity), Bin Liu (iMerciv), Christina Cai (Knowtions), and Ryan Doherty (iamsick.ca) with Ontario Lt.-Gov. Elizabeth Dowdeswell at U of T Celebrates Innovation. (Photo by Lisa Sakulensky)

Serving The U of T Community

Each year the VPRI portfolio supports the U of T community by managing, negotiating and supporting the activities highlighted below:

Research Funding	2,700 principal investigators	3,700 new funding applications	\$400M in funding awarded	9,100 research funds
	900 sponsors including	300+ private sector partners	1,700 funding programs	130 workshops and inf sessions
Innovation & Enterpreneurship	160 invention disclosures	50 priority patent applications	40 licensing agreements & options	150 commercialization projects
	200+ student-led startup teams	~300 entrepreneurial events	26,000+ youth attendees	~200 volunteer mentors
	~90 new startup companies*	\$38.7M in startup investment	\$5.1M in startup sales	
Accountability & Reporting	35 external audits	7,000 financial reports	1250+ new human ethics	550 new animal ethics
	20 post-(ethics) approval reviews - human	46 post-(ethics) approval reviews - animal	protocols	protocols

