



UNIVERSITY OF TORONTO
FACULTY OF MEDICINE

SYNOPSIS OF RESEARCH ACTIVITIES

**IN THE FACULTY OF MEDICINE UNIVERSITY OF TORONTO
AND ITS AFFILIATED TEACHING HOSPITALS**

April 1, 2012 - March 31, 2013

<http://medresearch.utoronto.ca>

Based on RIS data snapshot: October 31, 2013, 0930hrs
Version 2.0 : Feb. 24, 2014

About THIS Report

As of 2012 the Faculty of Medicine Research Office (Office of the Vice-Dean for Research, Faculty of Medicine) will not publish a hardcopy version of the Synopsis of Research Activities of the Faculty of Medicine and Affiliated Hospitals. In its place, is this abbreviated report – available online – consisting of only the most requested Tables and Graphs.

This report's introductory pages have been reformatted to be screen-friendly (landscape orientation) but the tables and graphs have been retained in pdf format for ease of printing for those who desire a paper copy.

As always we would like to acknowledge the support of Departmental Chairs, Research Directors and UofT/Hospital Research Administrators for providing information on research activities.

We would like to thank collectively the numerous individuals who have contributed in one way or another to the tedious task of producing this report. We look forward to your continued support for next year's report.

TERMS OF REFERENCE

Research funding is summarized in the Synopsis by department and by research location of the principal investigator.*

The following guidelines are used to collect research funding information and assign funds in the research database:

- Research funding information is collected from administration offices located on the University of Toronto campus and at the affiliated teaching hospitals for grants and awards received during the period **April 1, 2012- March 31, 2013**.
- Information is collected on investigators who hold a Faculty of Medicine appointment.
- These data are assigned to a principal investigator as identified by the grant application or through consultation with the departmental Chair.
- An investigator's research funding information is linked to their primary departmental affiliation and to a primary research location as identified on the grant application.
- Funds may be assigned to a department in which a principal investigator holds a cross appointment. The assignment is conditional upon the agreement of the Chairs.
- This summary includes direct research grants only and does not include funding to implement or maintain research infrastructure, e.g. CFI awards.
- Research funding that remains unexpended during a given report period is not carried forward to subsequent reports.
- The data used to generate this report (unless otherwise indicated) was **based on an RIS 'by-Location' Report download (data snapshot) initiated at 0900 hrs of October 31, 2013**.
- All calculations were done using validated programs in SAS statistical Software version 9.3

* In practice, research funds are administered through the departments of all investigators, both principal and co-investigator, involved in a research project. The resource allocation contained in this summary may differ from departmental reports.

Table 1a
FACULTY OF MEDICINE - UNIVERSITY OF TORONTO
Summary of Department Research Funding vs Sponsor in MILLIONS of Dollars
April 2012 - March 2013

DEPARTMENT	Total	TriCouncil	TriCouncil SUB	Federal Gov	Federal Gov SUB	Provincial GOV	Provincial Gov SUB	Charities	Charities SUB	NIH & US Gov	NIH & US Gov SUB	Industry	Industry SUB	International	Other	Other SUB	Local	# of Awards
BASIC																		
BBDMR	18.766	6.717	0.035	0.777	0.160	3.336	1.110	0.735	0	1.086	0.854	2.821	0	0.016	0.452	0	0.669	108
Biochemistry	17.635	6.119	0.220	3.579	0	0.215	0.234	2.909	0	0	0	0.026	0.007	0	0.774	0	3.552	229
Biomat & Biomed Eng	3.262	0.824	0.065	0.135	0	0.870	0	0.931	0	0	0.171	0.008	0	0	0.174	0	0.084	50
Immunology	12.431	3.406	0.083	0.519	0	0.380	0	3.631	0.025	0.952	0.171	1.341	0	0	0.659	0	1.266	165
Medical Biophysics	76.703	15.919	0.110	8.248	0	11.014	0	9.056	0	3.820	0.771	1.605	0.652	0.202	2.317	0	22.990	587
Molecular Genetics	76.068	22.753	0.311	5.769	0	10.178	0.056	24.231	0	0.684	0.516	4.110	0.892	0.014	1.901	0.082	4.570	592
Nutritional Sciences	6.149	2.701	0.013	1.277	0	0.106	0.010	0.897	0.128	0	0.038	0.336	0	0	0.597	0	0.045	129
Pharmacology	5.251	1.909	0.012	0.237	0	0.222	0	0.452	0	0.417	0.301	0.739	0	0	0.961	0	0.003	104
Physiology	15.572	6.254	0.042	1.393	0	0.970	0.637	2.576	0	0.153	0.019	0.559	0	0.035	1.242	0	1.692	269
SUB-TOTAL	231.837	66.602	0.891	21.934	0.160	27.291	2.047	45.418	0.153	7.112	2.841	11.545	1.551	0.267	9.077	0.082	34.871	2,233
COMMUNITY HEALTH																		
Health Policy, Mgmt & Eval	10.767	2.593	0.179	0.112	0	3.876	0.013	1.122	0.014	0.024	0	0.163	0.522	0	1.366	0	0.783	222
Public Health (D Lana School of)	23.453	7.294	0.215	0.974	0	6.974	0	3.431	0.064	0.031	0.418	0.116	0.111	0.090	2.504	0	1.231	320
SUB-TOTAL	34.220	9.887	0.394	1.086	0.000	10.850	0.013	4.553	0.078	0.055	0.418	0.279	0.633	0.090	3.870	0.000	2.014	542
CLINICAL																		
Anesthesia	3.826	0.956	0.007	0.367	0.003	0.151	0	0.650	0	0	0	0.549	0.054	0	0.118	0	0.970	85
Family & Community Medicine	6.681	0.847	0.047	0.116	0	3.659	0.147	0.886	0	0.265	0.001	0	0	0	0.200	0	0.513	84
Lab. Medicine & Pathobiology	31.318	7.775	0.242	0.424	0	2.039	0	7.773	0.713	2.601	0.874	4.126	0.134	0.115	1.142	0	3.362	428
Medical Imaging	6.889	0.474	0.194	0.235	0	1.016	0	2.231	0	0.385	0.008	0.837	0	0	0.049	0	1.460	99
Medicine	162.405	29.975	1.192	4.871	0.107	15.195	0	31.686	0.558	4.208	1.158	39.272	1.296	0.151	4.916	0.043	27.775	1,940
Obstetrics & Gynaecology	9.070	2.258	0.386	3.757	0	0.254	0	0.539	0	0.020	0.188	0.681	0.014	0.005	0.191	0	0.778	103
Occupational Therapy	2.927	0.865	0.081	0	0	0.569	0	0.192	0	0	0	0.012	0.002	0	0.988	0	0.217	215
Ophthalmology And Vision Sci	5.669	1.312	0.203	0	0	0	0	1.656	0	0	0	0.498	0.088	0	0.237	0	1.675	90
Otolaryngology	2.390	0.515	0	0	0	0.020	0	0.375	0	0	0	0.229	0.010	0	0.069	0	1.172	47
Paediatrics	55.667	15.892	0.636	1.643	0	2.299	0	18.977	0.266	1.473	1.151	3.640	1.910	0.234	0.975	0	6.572	1,013
Physical Therapy	4.576	1.219	0.073	0.366	0.027	0.304	0	0.554	0	0	0.005	0.081	0.035	0	1.715	0	0.197	344
Psychiatry	37.195	10.727	0.142	5.292	0	3.526	0	5.055	0.026	2.905	0.253	2.028	0.569	0	4.558	0	2.113	459
Radiation Oncology	23.141	1.496	0	0	0	4.039	0	8.795	0.099	0	0	1.533	0.116	0	0.775	0	6.287	333
Speech-Language Pathology	1.996	0.317	0	0.100	0	0.145	0	0.245	0	0.366	0	0.010	0.072	0	0.729	0	0.013	178
Surgery	58.648	10.472	0.111	1.227	0	5.658	0	14.332	0.610	0.959	0.085	4.221	0.388	0.239	1.840	0	18.506	847
SUB-TOTAL	412.398	85.100	3.314	18.398	0.137	38.874	0.147	93.946	2.272	13.182	3.723	57.717	4.688	0.744	18.502	0.043	71.610	6,265
Other	26.338	2.892	0.178	1.703	0	12.510	0	3.503	0.214	0.209	1.245	1.535	0.029	0	2.319	0	0	428
TOTAL	704.793	164.481	4.777	43.121	0.297	89.525	2.207	147.420	2.717	20.558	8.227	71.076	6.901	1.101	33.768	0.125	108.495	9,468
CFI/OIT ¹	269.496									0						0	0	92
GRAND TOTAL ²	974.289	(x \$1,000,000)																9,560

¹ CFI and OIT funding represents physical infrastructure grants to the Hospital for Sick Children, Mt. Sinai Hospital, St. Michael's Hospital, the Sunnybrook Health Sciences Centre, University of Toronto and the University Health Network.

² Excludes a total of \$ 17,911,944 from the Federal Indirect Costs Program awarded to affiliate hospitals.

Table 1b
FACULTY OF MEDICINE - UNIVERSITY OF TORONTO
Summary of Department Research Funding vs Sponsor in MILLIONS of Dollars INCLUDING SUB-GRANTS
April 2012 - March 2013

DEPARTMENT	Total	TriCouncil*	Federal Gov*	Provincial GOV*	Charities*	NIH & US Gov*	Industry*	Other	Local	# of Awards
BASIC										
CCBR (formerly BBDMR)	18.766	6.752	0.936	4.445	0.735	1.940	2.821	0.468	0.669	108
Biochemistry	17.635	6.340	3.579	0.449	2.909	0	0.032	0.774	3.552	229
Biomat & Biomed Eng	3.262	0.889	0.135	0.870	0.931	0.171	0.008	0.174	0.084	50
Immunology	12.431	3.489	0.519	0.380	3.656	1.122	1.341	0.659	1.266	165
Medical Biophysics	76.703	16.029	8.248	11.014	9.056	4.590	2.257	2.519	22.990	587
Molecular Genetics	76.068	23.064	5.769	10.234	24.231	1.200	5.001	1.998	4.570	592
Nutritional Sciences	6.149	2.715	1.277	0.116	1.026	0.038	0.336	0.597	0.045	129
Pharmacology	5.251	1.920	0.237	0.222	0.452	0.718	0.739	0.961	0.003	104
Physiology	15.572	6.296	1.393	1.607	2.576	0.172	0.559	1.277	1.692	269
SUB-TOTAL	231.837	67.494	22.093	29.337	45.572	9.951	13.094	9.427	34.871	2,233
COMMUNITY HEALTH										
Health Policy, Mgmt & Eval	10.767	2.772	0.112	3.889	1.136	0.024	0.686	1.366	0.783	222
Public Health (D Lana School of)	23.453	7.509	0.974	6.974	3.495	0.448	0.227	2.594	1.231	320
SUB-TOTAL	34.220	10.281	1.086	10.863	4.631	0.472	0.913	3.960	2.014	542
CLINICAL										
Anesthesia	3.826	0.963	0.371	0.151	0.650	0	0.604	0.118	0.970	85
Family & Community Medicine	6.681	0.893	0.116	3.806	0.886	0.266	0	0.200	0.513	84
Lab. Medicine & Pathobiology	31.318	8.018	0.424	2.039	8.485	3.474	4.260	1.257	3.362	428
Medical Imaging	6.889	0.668	0.235	1.016	2.231	0.393	0.837	0.049	1.460	99
Medicine	162.405	31.167	4.978	15.195	32.244	5.367	40.568	5.110	27.775	1,940
Obstetrics & Gynaecology	9.070	2.644	3.757	0.254	0.539	0.208	0.695	0.196	0.778	103
Occupational Therapy	2.927	0.946	0	0.569	0.192	0	0.014	0.988	0.217	215
Ophthalmology And Vision Sci	5.669	1.515	0	0	1.656	0	0.586	0.237	1.675	90
Otolaryngology	2.390	0.515	0	0.020	0.375	0	0.239	0.069	1.172	47
Paediatrics	55.667	16.528	1.643	2.299	19.243	2.624	5.550	1.209	6.572	1,013
Physical Therapy	4.576	1.291	0.394	0.304	0.554	0.005	0.116	1.715	0.197	344
Psychiatry	37.195	10.869	5.292	3.526	5.081	3.158	2.597	4.558	2.113	459
Radiation Oncology	23.141	1.496	0	4.039	8.894	0	1.649	0.775	6.287	333
Speech-Language Pathology	1.996	0.317	0.100	0.145	0.245	0.366	0.082	0.729	0.013	178
Surgery	58.648	10.583	1.227	5.658	14.942	1.044	4.609	2.079	18.506	847
SUB-TOTAL	412.398	88.413	18.537	39.021	96.217	16.905	62.406	19.289	71.610	6,265
Other	26.338	3.070	1.703	12.510	3.717	1.455	1.564	2.319	0	428
TOTAL	704.793	169.258	43.419	91.731	150.137	28.783	77.977	34.995	108.495	9,468
CFI/OIT ¹	269.496	0	99.665	25.326	143.705	0	0	0.800	0	92
Indirect Costs	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL²	974.289	(x \$1,000,000)								9,560

* Dollar values represent direct funding as well as subgrants / subcontracts where primary funding source is documented. For a breakdown of direct vs subgrant funding see Table 1a.

¹ CFI and OIT funding represents physical infrastructure grants to the Hospital for Sick Children, Mt. Sinai Hospital, St. Michael's Hospital, the Sunnybrook Health Sciences Centre, University of Toronto and the University Health Network.

² Excludes a total of \$ 17,911,944 from the Federal Indirect Costs Program awarded to affiliate hospitals.

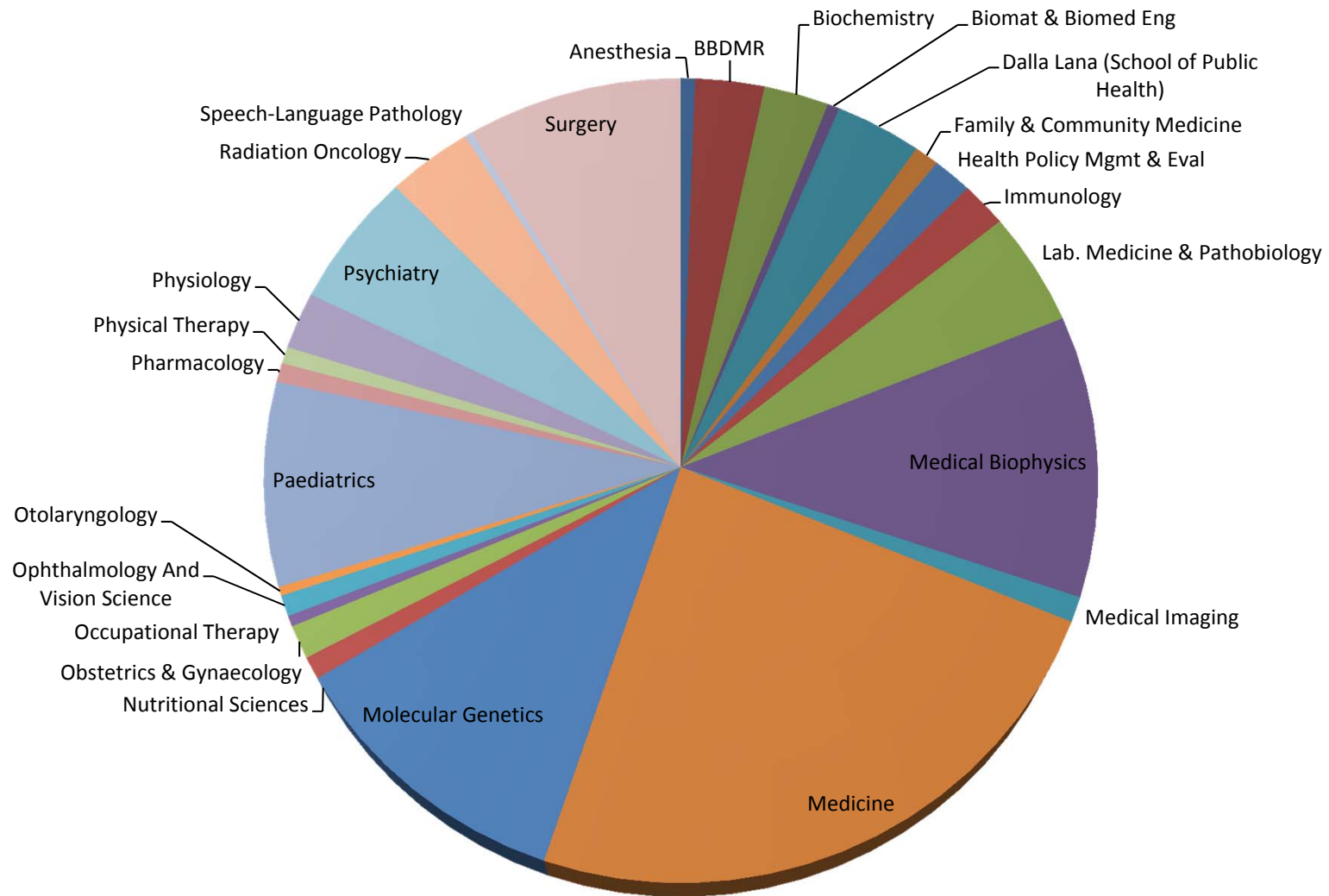
Table 4
FACULTY OF MEDICINE - UNIVERSITY OF TORONTO
Summary of Location Research vs Sponsor (Funding Source) in MILLIONS of Dollars
April2012 - March 2013

HOSPITAL	Total	TriCouncil	TriCouncil SUB	Federal Gov	Federal Gov SUB	Provincial GOV	Provincial Gov SUB	Charities	Charities SUB	NIH & US Gov	NIH & US Gov SUB	Industry	Industry SUB	International	Other	Other SUB	Local	# of Awards
Baycrest Centre for Geriatric Care	4.176	1.076	0	0.300	0	0	0	2.660	0	0.043	0	0.044	0.001	0	0.053	0	0	34
Bloorview Kid's Rehab (Holland)	3.060	0.876	0.074	0	0	0.650	0	0.486	0	0.329	0	0.078	0.196	0	0.371	0	0	57
Centre for Addiction and Mental Health	34.563	8.056	0.096	5.132	0	7.651	0	3.734	0	2.396	0.249	0.405	0.164	0.090	6.448	0	0.142	309
Hospital for Sick Children	137.567	34.399	0.954	5.170	0	8.302	0	48.095	1.141	2.644	1.513	8.228	2.078	0.269	1.593	0.082	23.100	1,870
Mount Sinai Hospital	67.868	16.368	0.675	6.948	0	11.921	0.234	12.572	0.065	1.249	1.029	10.327	0.275	0.069	1.110	0	5.026	604
St. Michael's Hospital	42.515	10.612	0.858	1.858	0.003	4.507	0	9.513	0.072	1.363	0.093	6.086	0.294	0.105	2.302	0	4.848	674
Sunnybrook Health Sciences Center	58.215	10.950	0.368	8.764	0	6.354	0	15.818	0.299	2.038	0.005	3.679	0.605	0.115	0.666	0	8.554	512
University Health Network	233.276	37.993	0.358	5.071	0.107	29.333	0	41.875	0.407	7.022	1.768	36.765	2.735	0.427	3.425	0.033	65.957	2,262
Women's College Hospital	6.273	2.443	0.008	0.250	0	1.366	0	1.266	0.024	0.020	0.021	0.100	0.004	0	0.043	0	0.727	88
Other Hospitals ¹	0.970	0.499	0.201	0.100	0	0.148	0	0	0	0	0	0.012	0	0	0	0	0.010	19
<i>SUB-TOTAL</i>	588.483	123.272	3.592	33.592	0.110	70.231	0.234	136.019	2.008	17.104	4.678	65.725	6.351	1.075	16.010	0.116	108.364	6,429
Other Locations ²	1.527	0.996	0.005	0.057	0	0.171	0	0.067	0	0	0.188	0	0	0	0.043	0	0	30
UofT Campus	114.782	40.214	1.179	9.471	0.187	19.124	1.972	11.334	0.709	3.452	3.361	5.351	0.551	0.026	17.714	0.010	0.128	3,009
<i>TOTAL</i>	704.791	164.482	4.776	43.120	0.297	89.526	2.207	147.421	2.717	20.556	8.227	71.076	6.902	1.101	33.767	0.126	108.492	9,468
CFI/OIT ³	269.496																	92
GRAND TOTAL	974.287	(x \$1,000,000)																9,560

¹ Research at non-affilitaed hospitals.
² Research at other locations other than UofT Campus and other hospitals.
³ CFI and OIT funding represents physical infrastructure grants to the Hospitals
University of Toronto and the University Health Network.

FACULTY OF MEDICINE - UNIVERSITY OF TORONTO

Proportion of Total 2012-13 Funding by Department



FACULTY OF MEDICINE - UNIVERSITY OF TORONTO
Total Research Dollar (Thousands) Distribution by Location of Research for 2012-13

