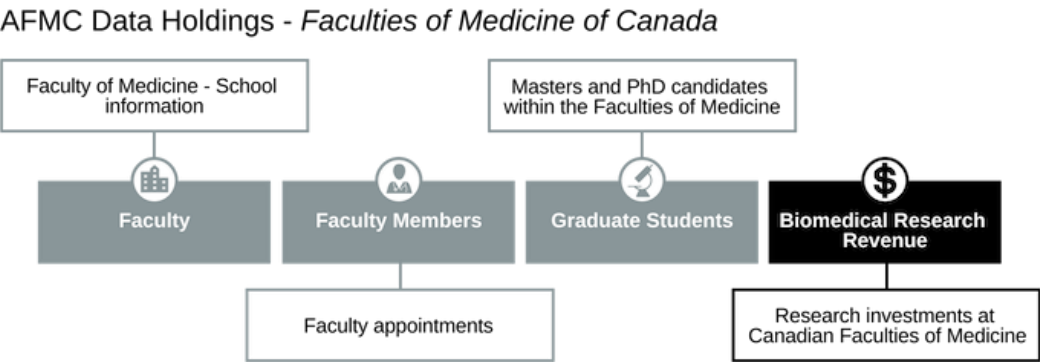


Canadian Medical Education Statistics 2024

Section D. The AFMC Biomedical Research Revenue Study – Description:



The Biomedical Research Revenue Study (formerly Biomedical and Health Care Research Revenues Study) provides detailed information on investments in biomedical and health care research at the Canadian Faculties of Medicine that conduct research. Data informing the study are primarily collected via the annual Biomedical Research Revenues Survey that collects information on funding sources, amounts, and fields of research. Biomedical research revenues data have been collected since 1977; however, the survey was conducted only in paper format until 2004, and currently the AFMC Research Revenues database includes data from 2010 onwards. The survey was revised for the 1980/81 CMES publication to improve reporting on sources of funds and disciplines, and again in 2012/13 to standardize disciplines. The Biomedical Research Revenues Survey was revised in 2016/17 to ensure consistency in reporting and to include related affiliate revenue to better measure the true impact of research efforts across the Faculties of Medicine. Caution should be exercised when comparing 16/17 and later data to pre-15/16 data.

Section D. The AFMC Biomedical Research Revenue Study – Table Contents:	
Table D-1	Biomedical Research Revenue: Funding and Affiliation of Canadian Faculties of Medicine
Table D-2	Biomedical Research Revenue of Canadian Faculties of Medicine by Source of Funds — Funding
Table D-3	Biomedical Research Revenue of Canadian Faculties of Medicine by Category of Funds — Funding
Table D-4	Biomedical Research Revenue of Canadian Faculties of Medicine by Top 50 Funding Sources
Table D-5	Distribution of Biomedical Research Revenue of Canadian Faculties of Medicine by Region
Table D-6	Biomedical Research Revenue of Canadian Faculties of Medicine by Discipline — Amounts

**Section D. The AFMC Biomedical Research Revenue Study – Table Notes:**

1. Tables in Section D were renumbered in Volume 40 for better readability. Please see Appendix D for references to the table numbers of the previous years' publications.
2. Tables in Section D have been updated in 2016/17 and 2017/18. They now separately report amounts for entities that are consolidated and those that are not, based on the institution's audited financial statements.
3. Affiliated research income is now included (see table D-1). Affiliate income is included only if:
  - a. The non-consolidated entity is an affiliated institution, as established by an affiliation agreement with the reporting institution.
  - b. Academic staff from the reporting institution lead the sponsored research project and conduct the research at the non-consolidated affiliated institution.
  - c. The income for the sponsored research is reported in the financial statements of the non-consolidated affiliated institution.
  - d. The sponsored research would be reported in the sponsored research fund had the research been conducted at the reporting institution, rather than at the affiliated institution.
4. In cases where affiliate revenues are not available or are only partially available, faculties were asked to provide an estimate.

This change has been applied to all report years after, and including, 2016/17 and 2017/18.

**Table D-1**  
**Biomedical Research Revenue: Funding and Affiliation of Canadian Faculties of Medicine**  
**2022/23**

Faculty of Medicine	(\$000's) of Amount		
	Funding	Affiliation	Total
Memorial University of Newfoundland	5,917.14	444.65	6,361.79
Dalhousie University	83,817.70	28,219.09	112,036.79
Université Laval	80,792.11	52,325.67	133,117.78
Université de Sherbrooke	63,474.54	18,626.13	82,100.67
Université de Montréal	57,492.02	124,739.34	182,231.36
McGill University*	204,900.06	168,267.63	373,167.69
University of Ottawa	162,050.51	6,834.27	168,884.77
Queen's University*	105,312.11	6,235.40	111,547.51
University of Toronto	113,850.70	882,155.59	996,006.29
McMaster University	219,534.10	109,530.05	329,064.16
Western University	97,312.02	66,950.98	164,263.00
NOSM University	4,857.70	235.12	5,092.82
University of Manitoba*	83,928.94	43,902.23	127,831.17
University of Saskatchewan	34,276.25	-	34,276.25
University of Alberta	211,299.11	26,611.08	237,910.19
University of Calgary	261,885.38	-	261,885.38
University of British Columbia	307,762.83	128,223.48	435,986.31
<b>Total</b>	<b>2,098,463.22</b>	<b>1,663,300.71</b>	<b>3,761,763.93</b>

\* Affiliation amounts are estimates.

**Table D-2**  
**Biomedical Research Revenue of Canadian Faculties of Medicine by Source of Funds — Funding**  
**2022/23**

Faculty of Medicine	(\$000's) of Amount									Total Amount (\$000's)
	Federal Government of Canada	Provincial Governments	Local / Internal	Canadian University and Unaffiliated Hospitals	Non Profit and Private Donations	Private Industry in Canada	Foreign Countries	USA	Not Reported	
Memorial University of Newfoundland	4,089.55	753.95	-	-	618.37	455.24	0.04	-	-	5,917.14
Dalhousie University	36,247.56	870.15	8,109.57	4,115.32	8,718.50	3,274.77	1,805.66	2,936.96	17,739.20	83,817.70
Université Laval	45,103.06	8,401.11	9,241.87	5,559.47	9,147.28	607.58	985.57	1,746.18	-	80,792.11
Université de Sherbrooke	23,866.68	12,166.53	9,943.73	6,880.47	5,756.25	1,793.34	774.10	2,293.46	-	63,474.54
Université de Montréal	27,422.03	7,863.84	3,246.76	2,497.00	7,422.12	2,499.95	955.80	5,584.52	-	57,492.02
McGill University	84,004.67	23,847.23	12,359.04	14,909.60	42,162.99	3,944.04	2,382.58	21,289.90	-	204,900.06
University of Ottawa	74,864.23	10,631.53	23,539.43	5,477.02	18,666.67	13,263.88	3,069.08	12,538.66	-	162,050.51
Queen's University	36,193.26	10,609.44	9,401.08	4,090.19	14,205.91	12,813.01	4,437.60	13,561.62	-	105,312.11
University of Toronto	72,649.38	5,415.12	1,663.64	782.98	8,719.23	6,019.62	924.83	17,675.91	-	113,850.70
McMaster University	118,262.36	9,895.08	17,412.84	14,934.55	20,012.73	23,661.16	4,847.40	10,507.98	-	219,534.10
Western University	48,564.08	3,587.05	29,076.86	25.00	9,412.86	1,995.65	1,477.09	3,173.43	-	97,312.02
NOSM University	1,437.21	414.80	315.00	80.00	2,395.69	215.00	-	-	-	4,857.70
University of Manitoba	34,077.97	2,133.87	3,018.87	2,565.90	7,454.24	1,624.89	3,243.18	29,810.02	-	83,928.94
University of Saskatchewan	19,314.32	4,094.95	3,102.68	1,484.42	4,192.26	405.55	50.82	1,631.26	-	34,276.25
University of Alberta	45,451.31	86,607.17	17,503.12	8,687.78	31,124.30	10,248.83	1,738.42	9,938.18	-	211,299.11
University of Calgary	64,043.33	49,245.39	32,512.62	-	70,620.08	39,940.40	106.69	5,416.87	-	261,885.38
University of British Columbia	160,987.55	16,404.04	17,897.26	25,750.16	36,123.09	8,747.96	7,696.29	34,156.47	-	307,762.83
<b>Total</b>	<b>896,578.55</b>	<b>252,941.25</b>	<b>198,344.37</b>	<b>97,839.86</b>	<b>296,752.57</b>	<b>131,510.87</b>	<b>34,495.15</b>	<b>172,261.42</b>	<b>17,739.20</b>	<b>2,098,463.22</b>

**Table D-3**  
**Biomedical Research Revenue of Canadian Faculties of Medicine by Category of Funds — Funding**  
**2022/23**

Faculty of Medicine	(\$000's) of Amount			Total Amount (\$000's)
	Basic Medical and Biological Sciences	Clinical Sciences	Health Sciences	
Memorial University of Newfoundland	3,387.94	1,624.62	904.58	5,917.14
Dalhousie University*	-	-	-	83,817.70
Université Laval	40,769.98	30,146.07	9,876.06	80,792.11
Université de Sherbrooke	23,819.37	31,877.11	7,778.07	63,474.54
Université de Montréal	39,388.47	18,103.55	-	57,492.02
McGill University	67,236.46	120,992.01	16,671.58	204,900.06
University of Ottawa	48,775.86	99,855.17	13,419.47	162,050.51
Queen's University	18,683.54	73,164.00	13,464.57	105,312.11
University of Toronto	85,312.79	28,162.90	375.00	113,850.70
McMaster University	37,490.97	118,195.80	63,847.33	219,534.10
Western University	54,750.50	38,102.32	4,459.21	97,312.02
NOSM University	1,284.58	1,045.24	2,527.88	4,857.70
University of Manitoba	22,590.67	19,765.70	41,572.57	83,928.94
University of Saskatchewan	8,994.79	14,533.11	10,748.35	34,276.25
University of Alberta	113,556.86	89,223.48	8,518.78	211,299.11
University of Calgary	127,067.84	87,675.55	47,141.99	261,885.38
University of British Columbia	78,096.55	184,464.81	45,201.47	307,762.83
<b>Total</b>	<b>771,207.17</b>	<b>956,931.44</b>	<b>286,506.91</b>	<b>2,098,463.22</b>

\* Dalhousie University did not categorize their \$83,817.70 in funding by disciplines.

**Table D-4**  
**Biomedical Research Revenue of Canadian Faculties of Medicine by Top 50 Funding Sources**  
**2022/23**

Funding Source	Source Category	Amount (\$000's)
Canadian Institutes of Health Research / Instituts de recherche en santé du Canada	FGOV	548,359.33
<i>Donations and endowments - Internal sources</i>	INT	77,624.99
Canada Foundation for Innovation / Fondation canadienne pour l'innovation	FGOV	69,424.89
Natural Sciences and Engineering Research Council of Canada / Conseil de recherches en sciences naturelles et en génie du Canada	FGOV	60,903.50
Alberta Jobs, Economy and Innovation	PGOV	59,593.82
Canada Research Chairs / Chaires de recherche du Canada	FGOV	56,489.12
Public Health Agency of Canada / Agence de la santé publique du Canada	FGOV	46,171.16
<i>Donations and endowments - Non-profit and private sources</i>	NFP	41,843.96
<i>Grants from businesses</i>	PI	38,055.65
United States National Institutes of Health	USA	35,735.30
Fonds de recherche du Québec	PGOV	34,585.87
<i>Grants from provincial governments</i>	PGOV	29,518.92
<i>Grants from non-profit organizations and foundations</i>	NFP	28,526.16
Bill and Melinda Gates Foundation	USA	26,977.66
Alberta Innovates	PGOV	26,530.15
Roche	PI	23,003.82
University of British Columbia	H/U	19,699.44
McGill University	H/U	19,236.82
Canadian Cancer Society / Société canadienne du cancer	NFP	16,089.52
Alberta Health Services	PGOV	14,655.70
Ontario Ministry of Long-Term Care	PGOV	13,675.87
Health Canada / Santé Canada	FGOV	13,102.98
Brain Canada Foundation / Fondation Brain Canada	NFP	12,845.94
Social Sciences and Humanities Research Council of Canada / Conseil de recherches en sciences humaines du Canada	FGOV	12,732.95
Natural Sciences and Engineering Research Council of Canada / Conseil de recherches en sciences naturelles et en génie du Canada	FGOV	12,716.25
McMaster University	H/U	12,384.61
Génome Canada	NFP	11,503.55
Research Support Fund / Fonds de soutien à la recherche	FGOV	10,624.67
Ottawa Hospital	INT	10,527.34
United States Department of Defense	USA	10,369.69
<i>Departmental funds</i>	INT	10,316.75
New Frontiers in Research Fund / Nouvelles frontières en recherche	FGOV	10,106.59
British Columbia Children's Hospital Research Institute	NFP	9,982.14
Mathematics of Information Technology and Complex Systems	NFP	9,471.31
Queen's University	INT	9,261.18
Ministère de l'enseignement supérieur, de la recherche, de la science et de la technologie	PGOV	8,954.60
Consortium québécois sur la découverte du médicament	NFP	8,194.38
AstraZeneca	PI	8,143.65
<i>Miscellaneous Canadian institutions, foundations, associations and societies</i>	NFP	7,981.58
<i>Investment income</i>	INT	7,279.14
Michael J. Fox Foundation	USA	7,236.58
<i>Miscellaneous Canadian businesses</i>	PI	7,162.14
Canada First Research Excellence Fund / Fonds d'excellence en recherche Apogée Canada	FGOV	6,806.76
University of Alberta	INT	6,702.87
Dalhousie University	INT	6,361.03
Stollery Children's Hospital Foundation	NFP	6,168.98
University Hospital Foundation	NFP	6,134.46
University of Ottawa	INT	6,115.43
Western University	INT	5,810.97
Cancer Research Society / Société de recherche sur le cancer	NFP	5,575.82
<b>Total</b>		<b>1,547,275.99</b>

See APPENDIX C for Classification of Sources.

**Table D-5**  
**Distribution of Biomedical Research Revenue of Canadian Faculties of Medicine by Region**  
**2021/22 - 2022/23**

Region	2021/22	2022/23
	<b>Thousands of Canadian Dollars</b>	
Atlantic Provinces	137,483.78	118,398.57
Quebec	815,430.77	770,617.50
Ontario	1,663,752.94	1,774,858.55
Western Provinces	990,877.80	1,097,889.31
<b>Total, Canada</b>	<b>3,607,545.29</b>	<b>3,761,763.93</b>
<b>Total, CIHR</b>	<b>563,787.93</b>	<b>601,044.33</b>
	<b>% Distribution</b>	
Atlantic Provinces	3.81	3.15
Quebec	22.60	20.49
Ontario	46.12	47.18
Western Provinces	27.47	29.19
<b>Total, Canada</b>	<b>100.00</b>	<b>100.00</b>
<b>% Distribution CIHR</b>	<b>15.63</b>	<b>15.98</b>
	<b>Index: 2021/22 = 100</b>	
Atlantic Provinces	100	86
Quebec	100	95
Ontario	100	107
Western Provinces	100	111
<b>Total, Canada</b>	<b>100</b>	<b>104</b>
<b>Total, CIHR</b>	<b>100</b>	<b>107</b>

All data refers to current Canadian dollars, uncorrected for changes in purchasing power values.

Note: Some faculties have reported their affiliation amounts as estimates; see Table D-1

**Table D-6**  
**Biomedical Research Revenue of Canadian Faculties of Medicine**  
**by Discipline – Amounts**  
**2022/23**

Discipline	Amount (\$000's)
<b>Basic Medical and Biological Sciences</b>	
Allergy and Immunology	100,321.18
Anatomy and Morphology	17,936.20
Biochemistry, Cellular/Molecular Biology and Medicine	233,490.33
Bioinformatics	5,113.49
Biology	19,969.49
Biomedical Engineering and Biomaterials	18,661.52
Biomedical Sciences	1,390.57
Biophysics	106,736.37
Genetics and Heredity	132,052.34
Health-Related Biotechnology	578.09
Microbiology, Virology and Infectious Diseases	61,528.74
Neurosciences	68,683.76
Pathology and Laboratory Medicine	100,697.57
Pharmacology and Pharmacy	71,721.27
Physiology	55,435.12
Reproductive and Developmental Biology	17,458.40
Other Basic Medicine	186,016.80
<b>Total, Basic Medical and Biological Sciences</b>	<b>1,197,791.24</b>
<b>Clinical Sciences</b>	
Anaesthesiology	35,736.43
Audiology and Speech Sciences	8,815.33
Cardiology, Cardiovascular Systems and Surgery	46,037.19
Clinical Psychology and Behavioral Sciences	2,914.91
Critical Care/Emergency Medicine	19,714.78
Dentistry, Oral Surgery/Medicine	1,759.55
Dermatology and Venereal Diseases	1,959.51
Endocrinology	8,363.54
Experimental Medicine	1,462.91
Family Medicine	52,155.46
Gastroenterology	31,701.73
Geriatrics and Gerontology	3,277.71
Hematology	8,679.48
Internal Medicine	534,324.67
Nephrology	44,079.19
Neurology and Neurosurgery	118,892.30
Nursing	13,144.88
Nutrition and Dietetics	13,273.73
Obstetrics and Gynaecology	34,428.67
Occupational Science and Therapy	13,487.92
Oncology	120,561.51
Ophthalmology	20,080.25
Orthopaedics	20,123.08
Otolaryngology — Head and Neck Surgery	8,679.14

continued



**Table D-6 (continued)**  
**Biomedical Research Revenue of Canadian Faculties of Medicine**  
**by Discipline – Amounts**  
**2022/23**

Discipline	Amount (\$000's)
<b>Clinical Sciences (continued)</b>	
Palliative Care	572.44
Pediatrics	177,477.94
Physical and Rehabilitation Medicine and Therapy	54,376.08
Psychiatry	114,761.56
Radiology, Medical Imaging and Nuclear Medicine	113,019.41
Respirology and Respiratory Systems	7,171.31
Rheumatology	3,990.49
Surgery	169,951.51
Urology	15,324.68
Other Clinical Medicine	49,012.34
<b>Total, Clinical Sciences</b>	<b>1,869,311.63</b>
<b>Health Sciences</b>	
Addiction Services and Substance Abuse	5,184.20
Animal Services	539.45
Arts and Medical Humanities	58.33
Community Health and Medicine	37,490.06
Epidemiology and Biostatistics	9,977.90
Health Administration	41,145.29
Health Care and Services Research	89,400.61
Health Informatics	3,363.79
Health Policy, Management & Evaluation	66,742.55
History and Sociology of Medicine	426.82
Medical and Health Education	6,510.94
Medical Ethics	715.23
Public, Population, Environmental and Global Health	64,123.64
Other Health Sciences	38,540.20
<b>Total, Health Sciences</b>	<b>364,219.01</b>
<b>Total</b>	<b>3,431,321.88</b>

Four faculties did not categorize a total of \$330,442.05 in revenue by discipline: Dalhousie University (\$112,036.79), McGill University (\$168,267.63), Queen's University (\$6,235.40), and the University of Manitoba (\$43,902.23).

See APPENDIX A for Classification of Disciplines.

All figures are in current Canadian dollars, uncorrected for changes in purchasing power values.