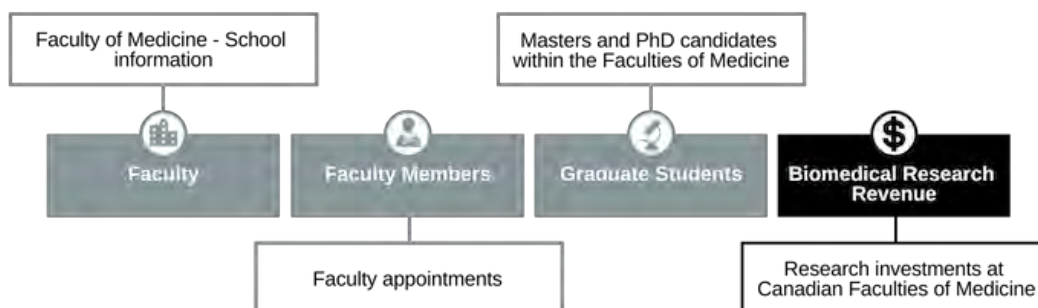


Canadian Medical Education Statistics 2021

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

AFMC Data Holdings - *Faculties of Medicine of Canada*



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 in paper format only 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 the Faculties of Medicine research efforts. 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. Amounts are separately reported for entities consolidated and entities not consolidated on institution's audited financial statements.
3. Affiliated research income is now included on the AFMC. Unlike prior publications, the tables in Section D, for the first time, will contain the affiliation amounts (table D-1).

Affiliate income is included only if:

- a. The entity not consolidated must be an affiliated institution as established by an affiliation agreement with the reporting institution and
 - b. Academic staff from the reporting institution lead the sponsored research project and conduct the research at the non-consolidated affiliated institution and
 - c. The income for the sponsored research is reported in the financial statements of the non-consolidated affiliated institution and
 - 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. Where affiliate revenues are not available or are only partially available faculties were asked to provide an estimate.
 5. Affiliated research income analysis report will be demonstrated in more detail in Volume 43.

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
2019/20

Faculty of Medicine	(\$000's) of Amount		
	Funding	Affiliation	Total
Memorial University of Newfoundland	6,816.04	128.85	6,944.89
Dalhousie University	70,259.58	31,307.60	101,567.18
Université Laval	140,139.57	62,281.96	202,421.53
Université de Sherbrooke	69,442.56	14,391.70	83,834.26
Université de Montréal	159,834.15	-	159,834.15
McGill University	160,167.10	-	160,167.10
University of Ottawa	148,094.25	4,164.97	152,259.22
Queen's University	136,573.60	-	136,573.60
University of Toronto	929,433.01	-	929,433.01
McMaster University	263,187.96	125,485.44	388,673.40
Western University	120,808.62	50,669.99	171,478.61
NOSM University	4,215.91	-	4,215.91
University of Manitoba	85,585.28	-	85,585.28
University of Saskatchewan	38,238.83	-	38,238.83
University of Alberta	159,977.34	26,763.44	186,740.78
University of Calgary	212,576.34	-	212,576.34
University of British Columbia	392,623.81	116,139.12	508,762.93
TOTAL	3,097,973.95	431,333.07	3,529,307.02

Table D-2
Biomedical Research Revenue of Canadian Faculties of Medicine by Source of Funds — Funding
2019/20

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	
Memorial University of Newfoundland	4,497.79	612.08	-0.01	335.70	1,121.95	194.44	61.11	-7.02	6816.04
Dalhousie University	32,573.08	2,177.47	6,680.11	4,352.57	7,248.34	9,246.85	1924.33	6,056.82	70,259.57
Université Laval	52,235.64	28,262.63	8,523.97	6,093.47	15,576.98	18,716.67	2498.58	8,231.64	140,139.58
Université de Sherbrooke	20,785.58	9,630.45	7,896.71	9,482.78	5,723.90	8,382.37	1,882.00	5658.77	69442.56
Université de Montréal	74,159.23	31,306.18	3,134.52	1,094.17	12,377.71	18,642.22	2,845.39	16,274.72	159,834.14
McGill University	72,775.22	17,642.16	18,486.03	5,137.33	25,874.74	4,256.64	4234.55	11760.42	160167.09
University of Ottawa	59,827.74	12,738.53	12,365.59	9,481.13	26,212.95	18,378.06	1731.17	7359.08	148094.25
Queen's University	28,437.49	7,333.27	6,666.03	3,162.15	9,813.64	12,302.40	53265.30	15593.32	136573.60
University of Toronto	289,440.04	57,602.39	84,118.41	17,384.75	263,732.31	94,302.49	12347.53	110505.09	929433.01
McMaster University	68,523.04	14,503.50	40,389.45	9,115.78	14,223.55	54,505.52	26900.46	35026.66	263187.96
Western University	44,464.85	6,051.55	33,420.80	3,257.95	15,979.11	7,315.19	1699.24	8619.92	120808.61
NOSM University	1,120.10	531.30	144.82	15.00	1,881.96	402.00	-	120.73	4215.91
University of Manitoba	32,969.05	24,734.87	4,353.25	3,776.23	6,594.17	878.61	-1156.53	13435.62	85585.27
University of Saskatchewan	21,961.61	6,461.00	2,842.03	2,158.46	2,837.96	1,056.32	214.59	706.86	38238.83
University of Alberta	41,812.10	24,312.83	17,277.28	5,668.13	34,562.62	11,537.50	4544.31	20262.58	159977.35
University of Calgary	56,400.41	40,074.09	40,401.29	-	48,980.54	25,377.54	603.87	738.61	212576.35
University of British Columbia	140,338.74	18,921.10	39,405.35	14,723.56	113,107.34	24,118.89	6437.18	35571.65	392623.81
TOTAL	1,042,321.71	302,895.40	326,105.63	95,239.16	605,849.77	309,613.71	120,033.08	295,915.47	3,097,973.93

Table D-3
Biomedical Research Revenue of Canadian Faculties of Medicine by Category of Funds — Funding
2019/20

Faculty of Medicine	(\$000's) of Amount			Total Amount (\$000's)
	Basic Medical and Biological Sciences	Clinical Sciences	Health Sciences	
Memorial University of Newfoundland	5,153.98	1,009.25	652.80	6,816.04
Dalhousie University ¹	-	-	-	-
Université Laval	52,048.72	73,615.77	14,475.08	140,139.57
Université de Sherbrooke	21,800.36	39,229.99	8,412.20	69,442.56
Université de Montréal	97,508.69	62,325.46	-	159,834.15
McGill University	57,767.34	91,157.60	11,242.15	160,167.10
University of Ottawa	88,110.43	45,129.52	14,854.31	148,094.25
Queen's University	17,117.71	112,679.46	6,776.43	136,573.60
University of Toronto	321,097.19	607,357.49	978.33	929,433.01
McMaster University	171,767.16	55,287.73	36,133.07	263,187.96
Western University	43,554.18	70,927.18	6,316.44	120,808.62
NOSM University	1,141.99	1,878.09	1,195.84	4,215.91
University of Manitoba	15,826.63	19,820.59	49,938.05	85,585.28
University of Saskatchewan	6,466.58	15,140.64	16,631.61	38,238.83
University of Alberta	75,712.48	75,996.33	8,268.53	159,977.34
University of Calgary	101,110.35	76,899.76	34,566.23	212,576.34
University of British Columbia	131,958.89	191,280.50	69,384.43	392,623.81
TOTAL	1,208,142.68	1,539,735.36	279,825.50	3,027,714.37

¹ Dalhousie University did not report by Discipline:

Table D-4
Biomedical Research Revenue of Canadian Faculties of Medicine by top 50 Funding Sources
2019/20

Funding Source	Source Category	2019/20 Amount (\$000's)
Canadian Institutes of Health Research / Instituts de recherche en santé du Canada	FGOV	683,465.35
Canada Foundation of Innovation / Fondation canadienne pour l'innovation	FGOV	88,445.29
University Health Network Foundations	NFP	69,626.97
Princess Margaret Cancer Foundation	NFP	63,391.54
Canada Research Chairs / Chaires de recherche du Canada	FGOV	53,843.93
Fonds de recherche du Québec - Santé	PGOV	52,836.19
AstraZeneca	FOR	47,045.54
Natural Sciences and Engineering Research Council of Canada / Conseil de recherches en sciences naturelles et en génie du Canada	FGOV	39,884.47
United States National Institutes of Health	USA	38,588.78
Bayer	PI	33,796.75
Natural Sciences and Engineering Research Council of Canada / Conseil de recherches en sciences naturelles et en génie du Canada	FGOV	27,349.66
Ministry of Research, Innovation and Science	PGOV	27,174.59
<i>Various companies</i>	PI	27,025.57
<i>Donations</i>	INT	25,857.79
<i>Other grants - business</i>	PI	24,412.51
<i>Donations - registered charities</i>	NFP	23,865.20
Hospital for Sick Children Foundation	NFP	23,743.02
<i>Various sponsors</i>	INT	23,394.76
Merck	PI	23,127.00
Alberta Innovates	PGOV	22,221.80
Health Canada / Santé Canada	FGOV	19,773.33
Manitoba Health	PGOV	18,354.84
Ontario Genomics	PGOV	17,927.21
Bill & Melinda Gates Foundation	USA	17,881.76
Canadian Cancer Society	NFP	17,675.00
Bristol-Myers Squibb	PI	17,629.54
Terry Fox Research Institute	INT	17,067.93
Centre for Addiction and Mental Health Foundation	NFP	16,866.70
AstraZeneca	PI	16,711.82
Bayer	FOR	16,602.78
Ministère de l'économie, de la science et de l'innovation du Québec	PGOV	15,964.93
<i>Other grants - non-profit organizations</i>	NFP	15,909.55
Vancouver General Hospital & University of British Columbia Hospital Foundation	NFP	14,767.37
Sunnybrook Foundation	NFP	14,608.90
British Columbia Cancer Foundation	NFP	14,300.28
Alberta Health Services	PGOV	14,267.00
University Health Network	INT	13,926.55
St. Michael's Hospital	INT	13,574.93
Brain Canada Foundation / Fondation Brain Canada	NFP	13,136.88
<i>Endowments held at the Faculty of Medicine</i>	INT	12,715.53
<i>New capital, including gifts, endowed chairs, trusts and donations</i>	INT	12,570.99
Ontario Ministry of Health and Long-Term Care	PGOV	12,555.87
Social Sciences and Humanities Research Council of Canada / Conseil de recherches en sciences humaines du Canada	FGOV	12,535.62
Heart and Stroke Foundation of Canada / Fondation des maladies du coeur du Canada	NFP	11,875.21
St. Paul's Hospital Foundation	NFP	11,296.46
Michael Smith Foundation for Health Research	NFP	11,150.40
British Columbia Children's Hospital Research Institute	NFP	10,444.41
Research Support Fund / Fonds de soutien à la recherche	FGOV	10,170.67
Novartis	PI	10,001.38
Hospital for Sick Children	INT	9,745.59
TOTAL		1,851,106.14

See APPENDIX C for Classification of Sources.

Table D-5
Distribution of Biomedical Research Revenue of Canadian Faculties of Medicine by Region
2018/19 - 2019/20

Region	2018/19	2019/20
	Thousands of Canadian Dollars	
Atlantic Provinces	71,254.69	77,075.62
Québec	371,943.14	529,583.37
Ontario	1,589,036.30	1,602,313.35
Western Provinces	902,268.28	889,001.61
Total, Canada	2,934,502.41	3,097,973.95
Total, CIHR	615,530.33	683,465.35
	% Distribution	
Atlantic Provinces	2.43	2.49
Québec	12.67	17.09
Ontario	54.15	51.72
Western Provinces	30.75	28.70
Total, Canada	100.00	100.00
% Distribution CIHR	20.98	22.06
	Index: 2019/20 = 100	
Atlantic Provinces	100	108
Québec	100	142
Ontario	100	101
Western Provinces	100	99
Total, Canada	100	106
CIHR	100	111

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

Note: Biomedical Research Revenues data are not available for Université de Montréal in 2018/19.

Table D-6
Biomedical Research Revenue of Canadian Faculties of Medicine
by Discipline – Amounts
2019/20

Disciplines	2019/20 Amount (\$000's)
Basic Medical and Biological Sciences	
Allergy and Immunology	53,269.63
Anatomy and Morphology	21,570.58
Biochemistry, Cellular/Molecular Biology and Medicine	192,692.78
Bioinformatics	2,552.61
Biology	7,489.96
Biomedical Engineering and Biomaterials	14,494.37
Biomedical Sciences	5,910.62
Biophysics	93,503.20
Genetics and Heredity	155,182.46
Health-Related Biotechnology	145.97
Microbiology, Virology and Infectious Diseases	59,721.77
Neurosciences	43,064.81
Pathology and Laboratory Medicine	120,824.82
Pharmacology and Pharmacy	66,328.01
Physiology	59,896.21
Reproductive and Developmental Biology	8,107.35
Other Basic Medicine	303,387.53
Total, Basic Medical and Biological Sciences	1,208,142.68
Clinical Sciences	
Anaesthesiology	20,847.46
Audiology and Speech Sciences	7,127.19
Cardiology, Cardiovascular Systems and Surgery	50,718.97
Clinical Psychology and Behavioral Sciences	3,168.07
Critical Care/Emergency Medicine	20,976.33
Dentistry, Oral Surgery/Medicine	1,142.41
Dermatology and Venereal Diseases	2,861.99
Endocrinology	6,541.19
Family Medicine	42,291.97
Gastroenterology	5,615.86
Geriatrics and Gerontology	3,661.16
Hematology	9,377.76
Internal Medicine	284,000.34
Nephrology	13,221.84
Neurology and Neurosurgery	106,734.72
Nursing	7,350.12
Nutrition and Dietetics	10,065.94
Obstetrics and Gynaecology	29,652.68
Occupational Science and Therapy	12,093.37
Oncology	133,166.58
Ophthalmology	18,251.12
Orthopaedics	14,072.00
Otolaryngology — Head and Neck Surgery	5,250.35
Palliative Care	408.30

continued

Table D-6 (continued)
Biomedical Research Revenue of Canadian Faculties of Medicine
by Discipline – Amounts
2019/20

Disciplines	2019/20 Amount (\$000's)
Clinical Sciences (conitnued)	
Pediatrics	191,651.49
Physical and Rehabilitation Medicine and Therapy	41,126.28
Psychiatry	117,568.20
Radiology, Medical Imaging and Nuclear Medicine	157,014.47
Respirology and Respiratory Systems	9,533.01
Rheumatology	3,736.35
Surgery	136,551.62
Urology	25,034.33
Other Clinical Medicine	48,921.91
Total, Clinical Sciences	1,539,735.37
Health Sciences	
Addiction Services and Substance Abuse	2,054.09
Animal Services	1,072.09
Community Health and Medicine	49,784.62
Epidemiology and Biostatistics	41,207.66
Health Administration	92,985.39
Health Care and Services Research	9,215.68
Health Informatics	666.59
Health Policy, Management & Evaluation	23,685.00
History and Sociology of Medicine	534.70
Medical and Health Education	5,462.68
Medical Ethics	365.93
Public, Population, Environmental and Global Health	35,063.77
Other Health Sciences	17,727.30
Total, Health Sciences	279,825.49
TOTAL	3,027,703.54

* Dalhousie University did not report by Disciplines.

See APPENDIX A for Classification of Disciplines.

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