Methodology and Definitions

Research-Active Faculty

In February 2020, the OVDR requested that department heads identify any new or additional research-active faculty in their department/division/school, as well as identify any faculty who may have left.

Faculty are considered research active if they have received research funding, published a peer-reviewed publication or citation (accessible on a current, public Google Scholar profile) within the 5-year window of this report.

This report includes data from 438 identified research-active faculty from 17 departments, schools and divisions.

Awarded Research Funding, Research Projects Awarded and Number of Faculty Awarded

The Research Funding and Research Projects Awarded data presented in this report were collected from the University of Saskatchewan Data Warehouse and UView Portal. Data are restricted to funding administered through the University of Saskatchewan and include fiscal years 2016/2017, 2017/2018, 2018/2019 and 2019/2020. University of Saskatchewan fiscal years run from May 1 to April 30.

Research Funding and Research Projects Awarded include awards, sub-transfers, travel awards, and awards from other institutions where CoM faculty are a Co-Investigator. Number of Projects
Awarded is the total number of new research projects awarded for a fiscal year, whereas Number of Faculty Awarded is the total number of unique faculty members that received research awards.

Research Impact

Measuring research impact can be difficult because not all impacts are direct, and the time between the execution of research projects and the benefits of the research findings can be significant, unpredictable, and differ for different types of research.

For the purposes of this report, when the term impact is used, it is in reference to how health research at the CoM reaches and influences the wider academic community by articulating and distributing the research findings of faculty via publications, citations, h-indices (bibliometrics) and research projects that have received funding from internal and/or external sources. This report uses bibliometrics and research income and awards to determine impact.

Bibliometrics: Publications, Citations and H-index

Bibliometrics are research productivity indicators based on scientific publications, used to highlight research productivity and impact.

The OVDR recognizes that the bibliometrics used in our analysis do not encompass all research output and do not include such important contributions as community engagement, changes to policy or clinical practice guidelines.

Publications, Citations and H-index findings presented throughout this report are derived from Google Scholar profiles of CoM research-active faculty. The report focuses on 5-year publication, citation and h-index data, quantified on an annual basis by calendar year: January 1 to December 31.

Publications

The act of submitting research findings to scholarly journals and then having them published is a tangible research productivity output as publications per year are easily measurable. This report refers to scholarly journal articles vetted by a group of experts, academics (peers) or other scholars as publications. All publications information has been sourced from the Google Scholar profiles of research-active faculty in the CoM.

Citations

Measuring the number of citations a publication receives is a means to track and quantify the influence a publication has in its relevant academic field. The term citation applies to scientific articles that have been peer-reviewed and published in scholarly journals and then cited in the work of other researchers.

H-index

The Hirsh index (h-index) is an author-level metric that measures the impact of a researcher, rather than the scientific journal in which they are publishing. Both the productivity and citation impact of the publications of a particular scholar are taken into account to reach the h-index, and it is based on the set of the scientist's most cited published articles in congruency with the number of citations received by that researcher on other publications. For more information about h-index, please access the University Library Research Guides.
2. Department of Medicine

2.1 Research Funding

In the 2019/2020 fiscal year, Department of Medicine researchers were awarded a total of $6,457,276.32, an increase from $5,740,595.26 in 2016/2017.

Figure 2.1: Department of Medicine Research Funding

![Graph showing research funding over years]

2.2 Research Projects Awarded

Over the past four fiscal years Department of Medicine researchers increased the total number of awards received, from 69 in 2016/2017 to 91 in 2019/2020. The number of unique faculty award recipients rose from 37 in 2016/2017 to 39 in 2019/2020.

Figure 2.2: Department of Medicine Research Projects Awarded

![Graph showing number of awards and faculty awarded over years]
2.3 Publications, Citations and H-index

The department produced 328 publications in 2019, with an average of 3.86 publications per research-active faculty.

Figure 2.3: Department of Medicine Annual Publication Count

![Publication Graph](image)

Figure 2.4 shows year-over-year ascending citation counts for Department of Medicine faculty. Researchers received 16,772 citations in 2019, and an average citation count per research-active faculty of 197.32.

Figure 2.4: Department of Medicine Annual Citation Count

![Citation Graph](image)

In 2019, the Department of Medicine’s 85 research-active faculty achieved a combined 5-year total h-index of 716. The average 5-year total h-index per research-active faculty is 8.4.