



UNIVERSITY OF SASKATCHEWAN

College of Medicine

OFFICE OF THE VICE-DEAN RESEARCH  
[MEDICINE.USASK.CA/RESEARCH.PHP](http://MEDICINE.USASK.CA/RESEARCH.PHP)

2018-2023

# RESEARCH PRODUCTIVITY REPORT





# Table of Contents

## Table of Contents

Executive Summary	1
Methodology and Definitions	1
1. College of Medicine	2
2. Department of Medicine	5
3. Department of Surgery	7
4. Department of Pediatrics	9
5. Division of Oncology	11
6. Department of Biochemistry, Microbiology and Immunology	13
7. Department of Academic Family Medicine	15
8. Department of Anesthesiology, Perioperative Medicine and Pain Management	17
9. Department of Anatomy, Physiology and Pharmacology	19
10. Department of Pathology and Laboratory Medicine	21
11. Department of Community Health and Epidemiology	23
12. Department of Emergency Medicine	25
13. Department of Psychiatry	27
14. Department of Obstetrics and Gynecology	29
15. Department of Medical Imaging	31
16. School of Rehabilitation Science	33
17. Department of Physical Medicine and Rehabilitation	35
18. Department of Ophthalmology	37

# Executive Summary

## From the Vice-Dean

This is our fifth report describing research output of the University of Saskatchewan College of Medicine. The data were captured, analyzed, and presented by Ms. Shelley-May Neufeld, Research Impact Analyst in the Office of the Vice-Dean Research.

This report focuses on research-active faculty in the CoM and provides bibliometrics and funding data displayed first by college and then divided by department/division/school. The data is presented in descending order by number of research-active faculty per department/division/school. All information is up to date as of July 7, 2023.

**The College of Medicine would like to express our greatest thanks and congratulations to all faculty who contributed to this research output.**

## Methodology and Definitions

### Research-Active Faculty

This report includes data from **487** identified research-active faculty from **17** departments, schools and divisions. Faculty are considered research active if they have received research funding, published a peer-reviewed publication or have their published works cited (accessible on a current, public [Google Scholar](#) profile) within the 5-year window of this report.

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

*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 2019/20 through 2022/23. 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 individual faculty members that received research awards.

### 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.

*Publication* and *Citation* findings presented throughout this report are derived from Google Scholar profiles of CoM research-active faculty. The report focuses on 5-year publication and citation metrics, quantified on an annual basis by calendar year: January 1 to December 31.



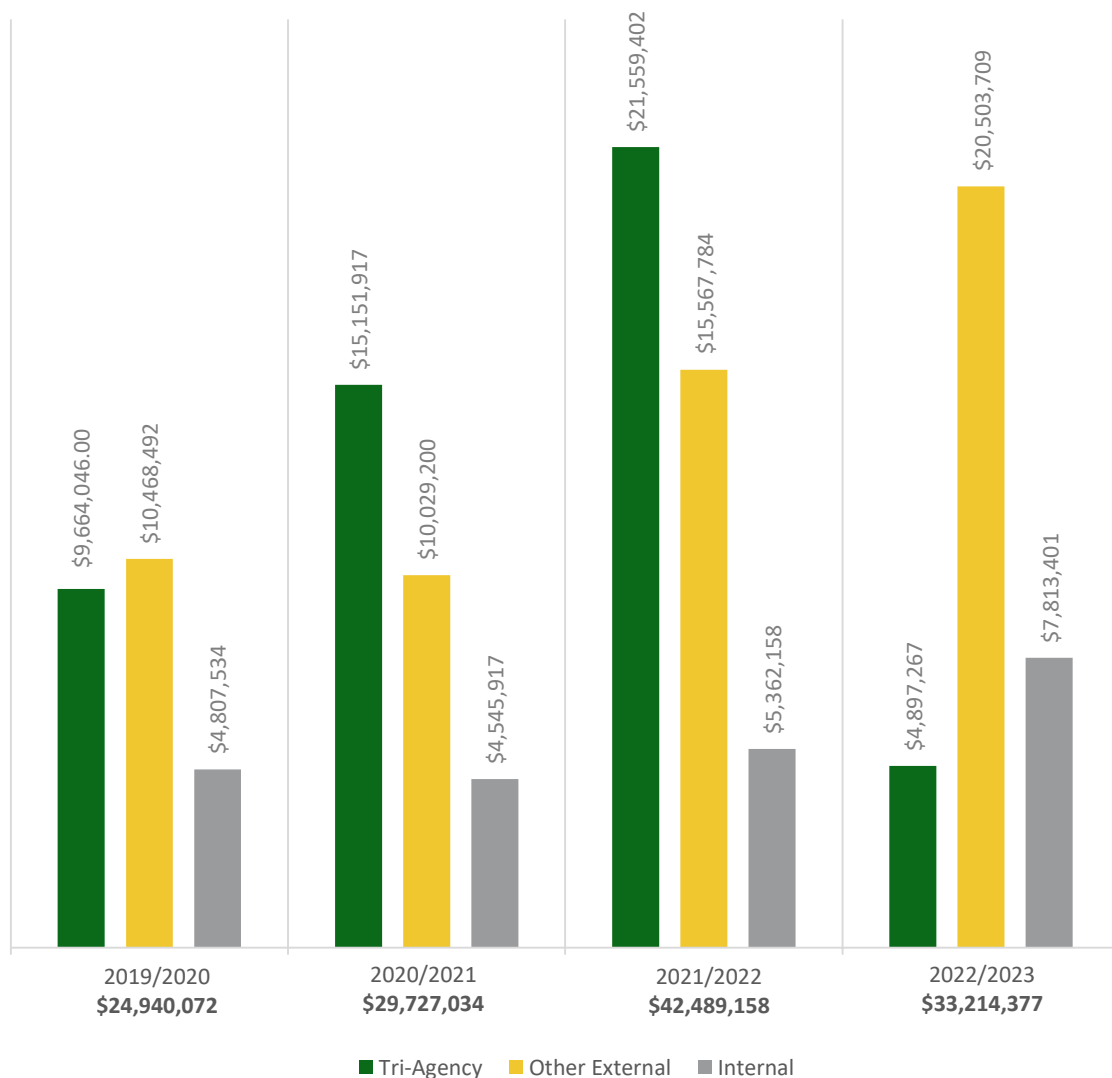
# 1. College of Medicine

## 1.1 Research Funding

In the 2022/2023 fiscal year, researchers in the College of Medicine (CoM) received awards totaling **\$33,214,337**. Included in this total are **\$4,897,267** dollars in Tri-Agency funding, **\$20,503,709** in other external funding and **\$7,813,401** in internal funding.

While overall funding awarded has declined from the 2022/2023 fiscal year, this funding is comparable to pre-pandemic funding (\$30 and \$31 million in 2017/2018 and 2018/2019 respectively), and represents a large increase compared to the years that were most affected by the pandemic (2019/2020 and 2020/2021).

**Figure 1.1: College of Medicine Awarded Research Funding**

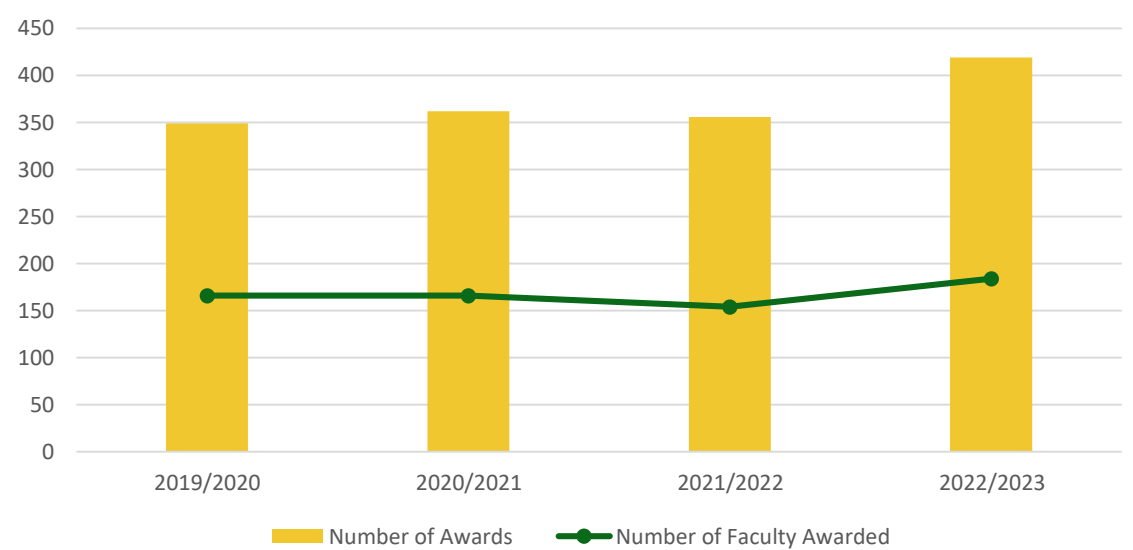


While the dollar value of tri-agency awards was significantly smaller in the 2022/2023 fiscal year compared to 2021/2022, the number of tri-agency grants awarded in 2022/2023 outpaced the previous year by ten (69 tri-agency awards in 2022/2023 vs 59 in 2021/2022).

## 1.2 Research Projects Awarded

The 2022/2023 fiscal year saw College of Medicine researchers receive an increased number of awards (+63) and individual faculty awardees (+30) compared to 2021/2022. In 2022/2023, **184** CoM researchers received **419** awards.

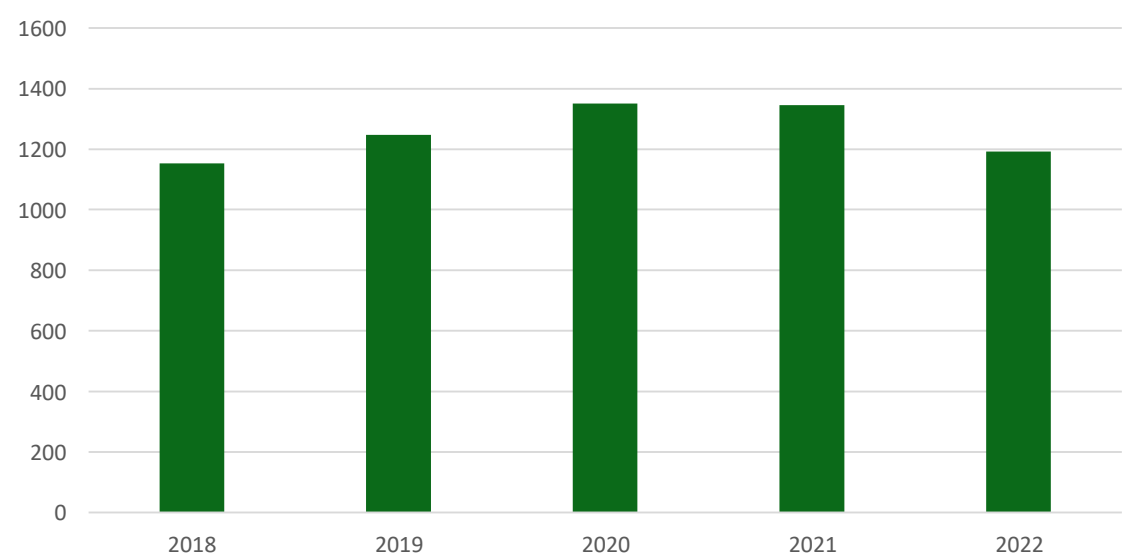
**Figure 1.2: College of Medicine Research Projects Awarded**



## 1.3 Publications & Citations

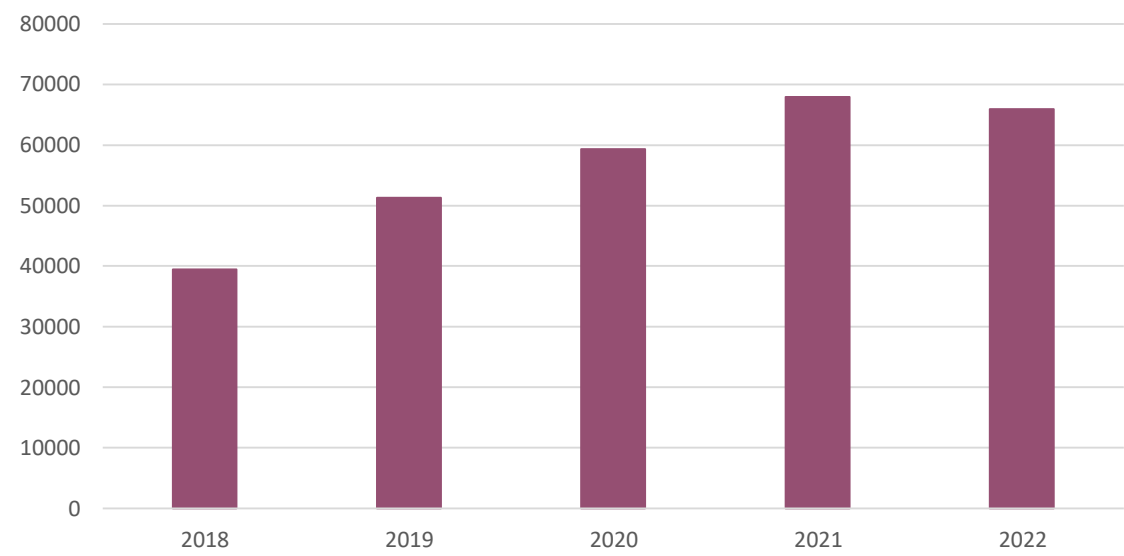
College of Medicine researchers published **1,193** publications in 2022, a return to pre-pandemic publication levels.

**Figure 1.3: College of Medicine Annual Publication Count**



College of Medicine research works were cited **65,952** times in 2022. Figure 1.4 shows a slight reduction in citations from 2021, however an overall ascending citation trend from 2018 remains.

**Figure 1.4: College of Medicine Annual Citation Count**



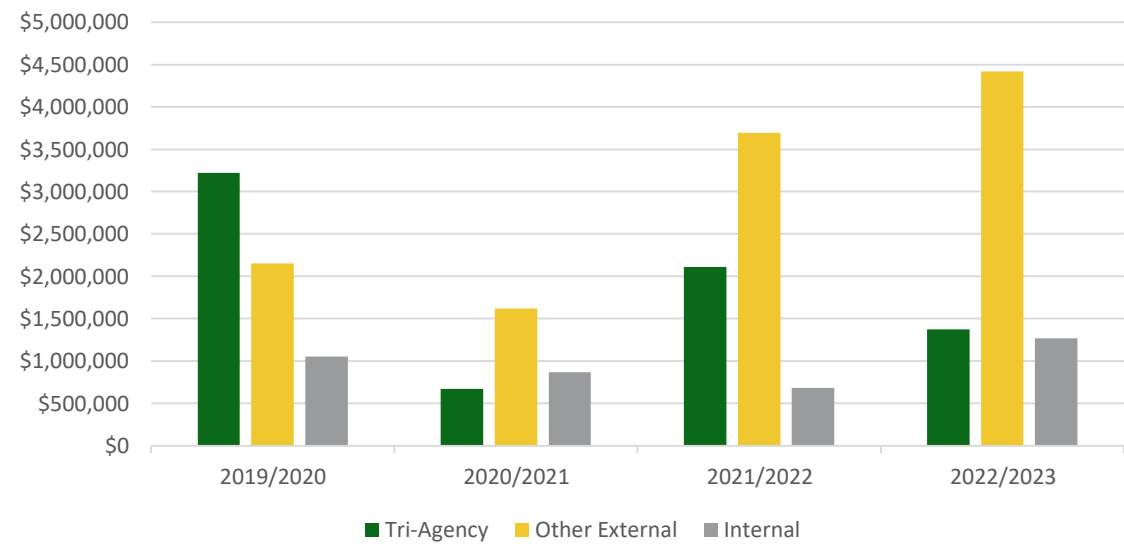
In 2022/2023, the OVDR identified **487** active researchers within the College of Medicine.

## 2. Department of Medicine

### 2.1 Research Funding

In the 2022/2023 fiscal year, the Department of Medicine saw an increase in awarded dollars. Departmental researchers were granted a total of **\$7,058,663**.

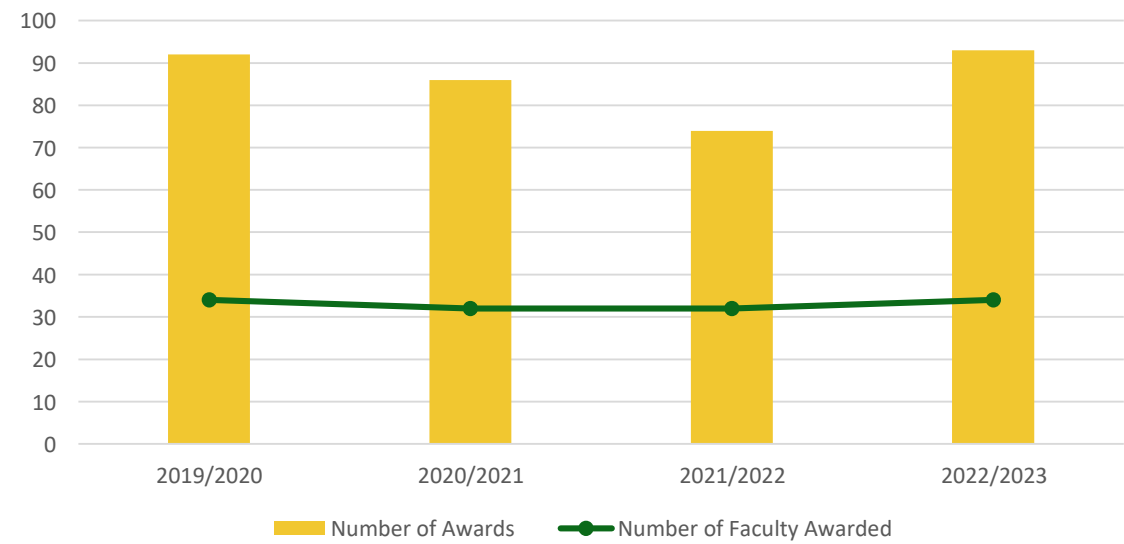
**Figure 2.1: Department of Medicine Research Funding**



### 2.2 Research Projects Awarded

Department of Medicine researchers were granted a total of **93** new awards in the 2022/2023 fiscal year. The number of individual faculty award recipients has remained relatively stable, with **34** awardees in 2022/2023.

**Figure 2.2: Department of Medicine Research Projects Awarded**



## 2.3 Publications & Citations

Faculty within the department produced **344** publications in 2022.

**Figure 2.3: Department of Medicine Annual Publication Count**

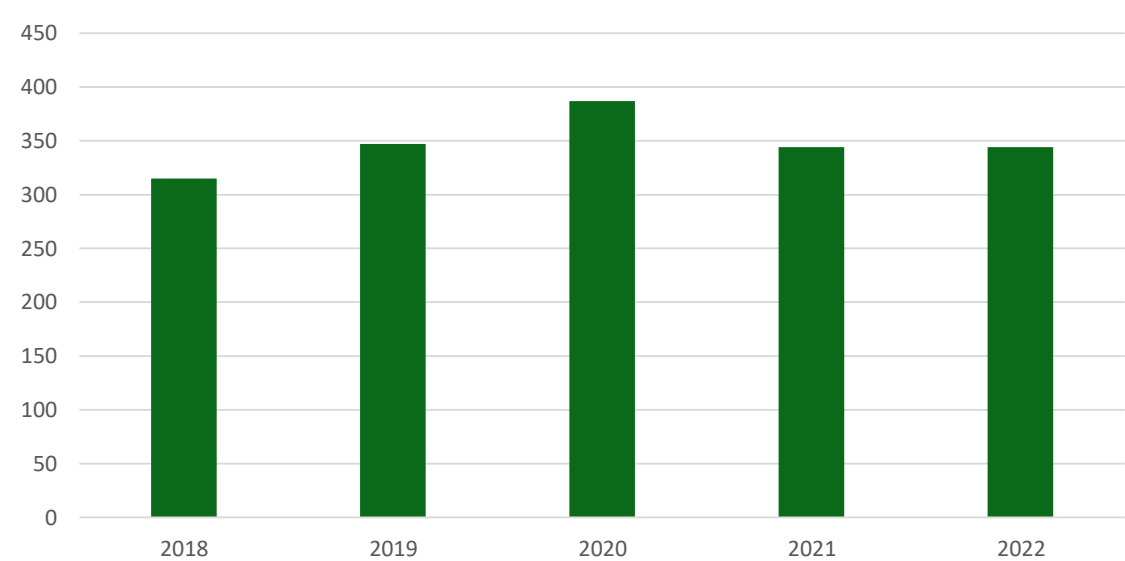
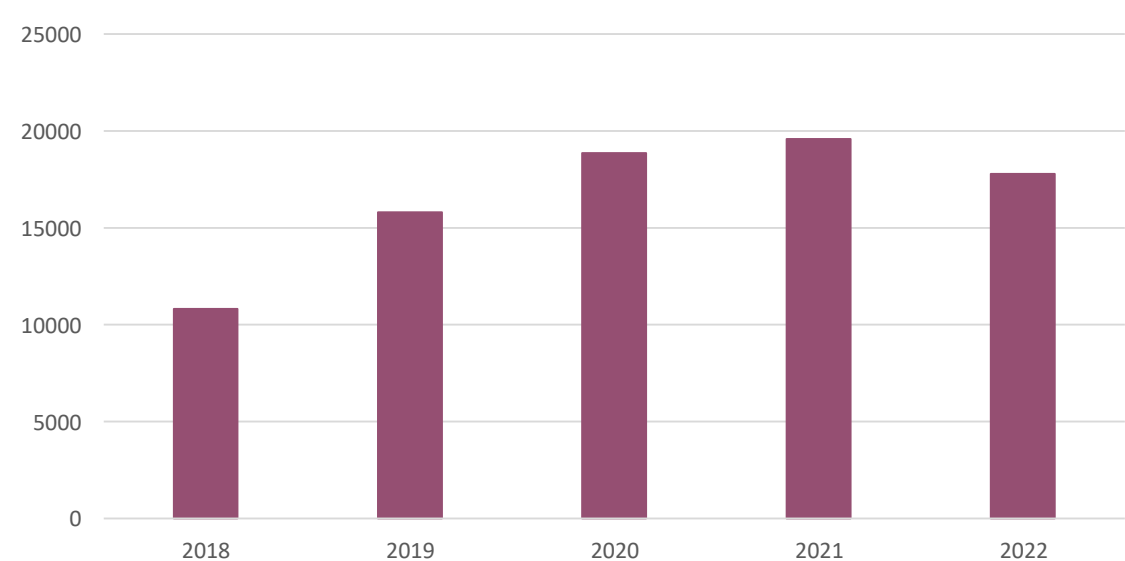


Figure 2.4 shows citation counts for Department of Medicine faculty. Departmental publications were cited **17,786** times in 2022.

**Figure 2.4: Department of Medicine Annual Citation Count**



This report included **84** research-active faculty from the Department of Medicine.

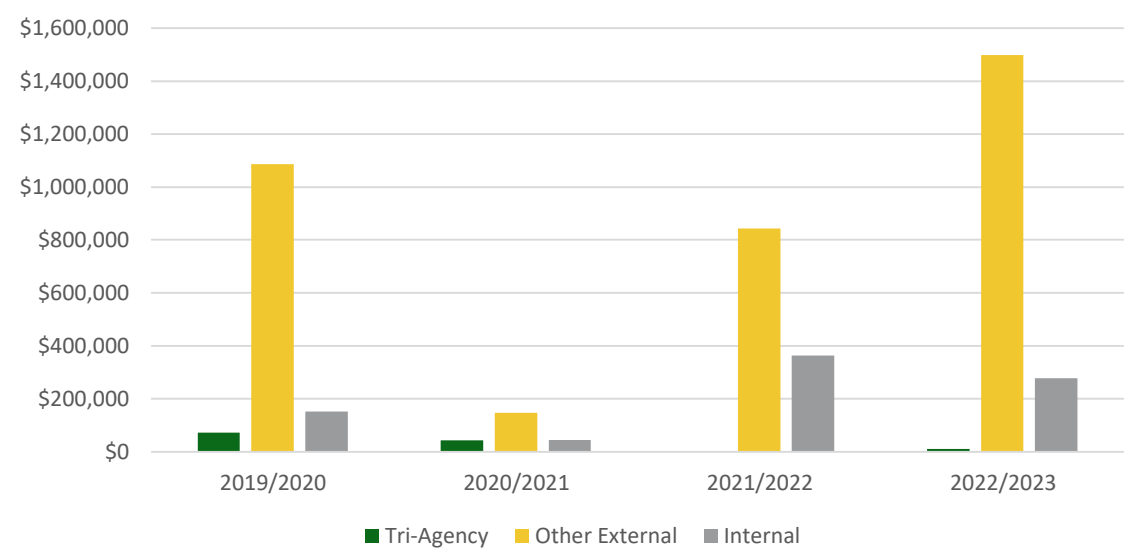


### 3. Department of Surgery

#### 3.1 Research Funding

In the 2022/2023 fiscal year, the Department of Surgery saw an increase in awarded dollars. Departmental researchers were granted a total of **\$1,786,308**.

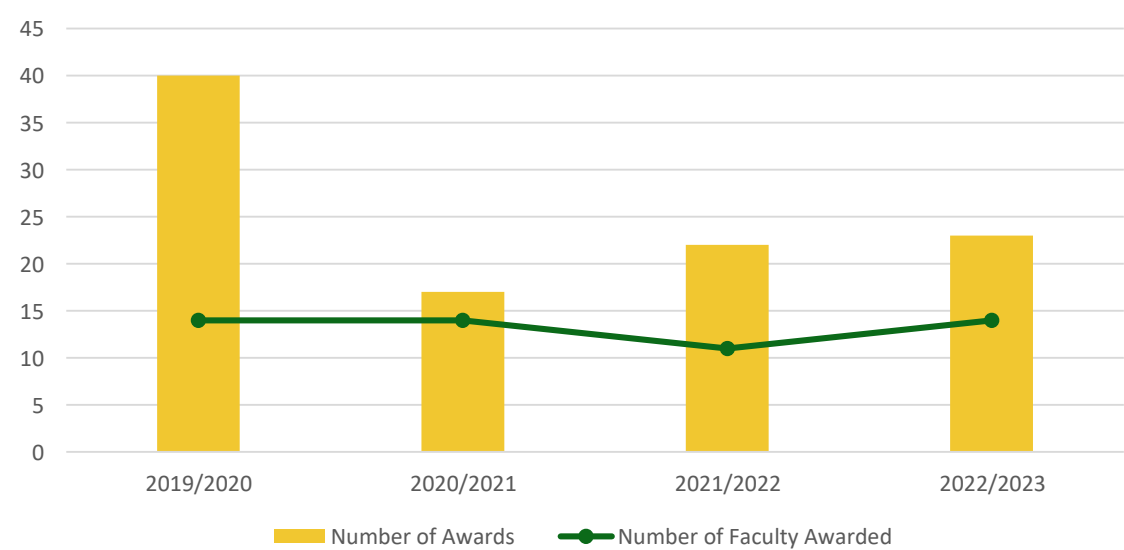
**Figure 3.1: Department of Surgery Research Funding**



#### 3.2 Research Projects Awarded

In 2022/2023 Department of Surgery faculty were granted **23** awards. The number of individual faculty award recipients has remained relatively stable, with **14** individual award recipients in 2022/2023.

**Figure 3.2: Department of Surgery Research Projects Awarded**



### 3.3 Publications & Citations

Faculty within the department produced **101** publications in 2022.

**Figure 3.3: Department of Surgery Annual Publication Count**

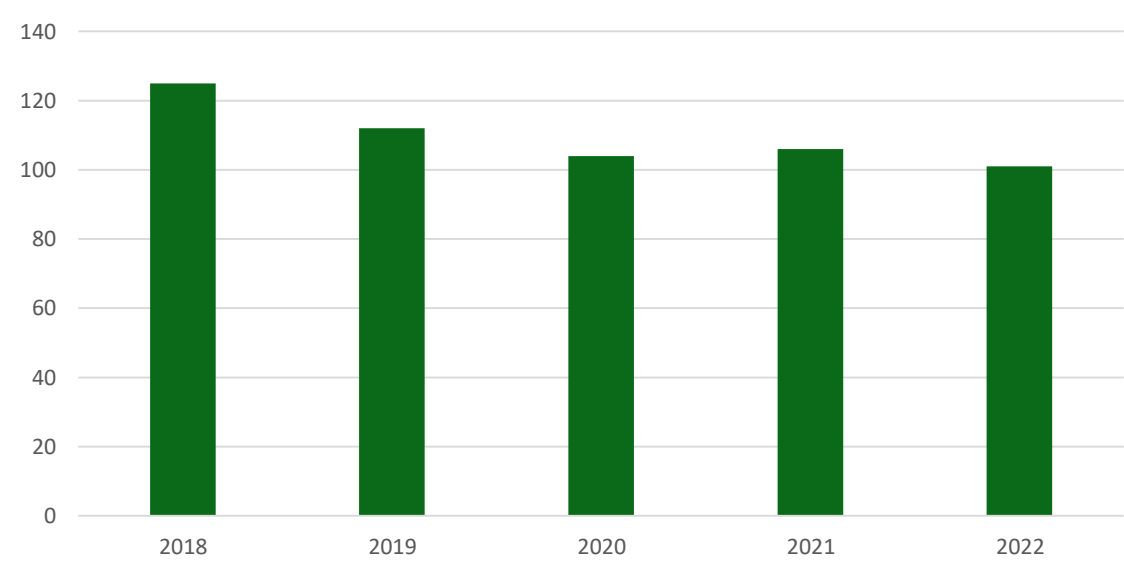
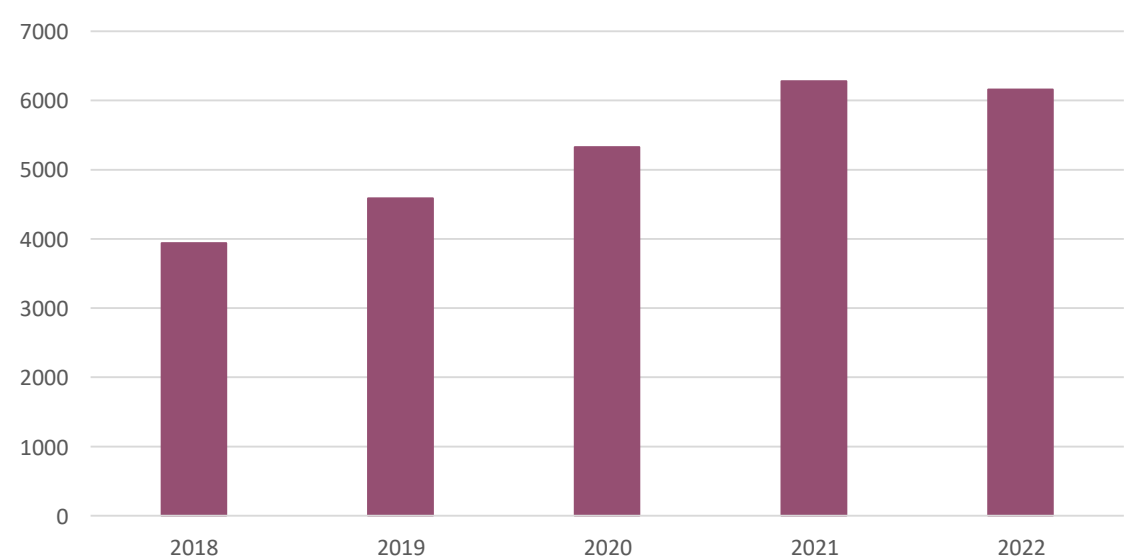


Figure 3.4 shows citation counts for Department of Surgery faculty. Departmental publications were cited **6,161** times in 2022.

**Figure 3.4: Department of Surgery Annual Citation Count**



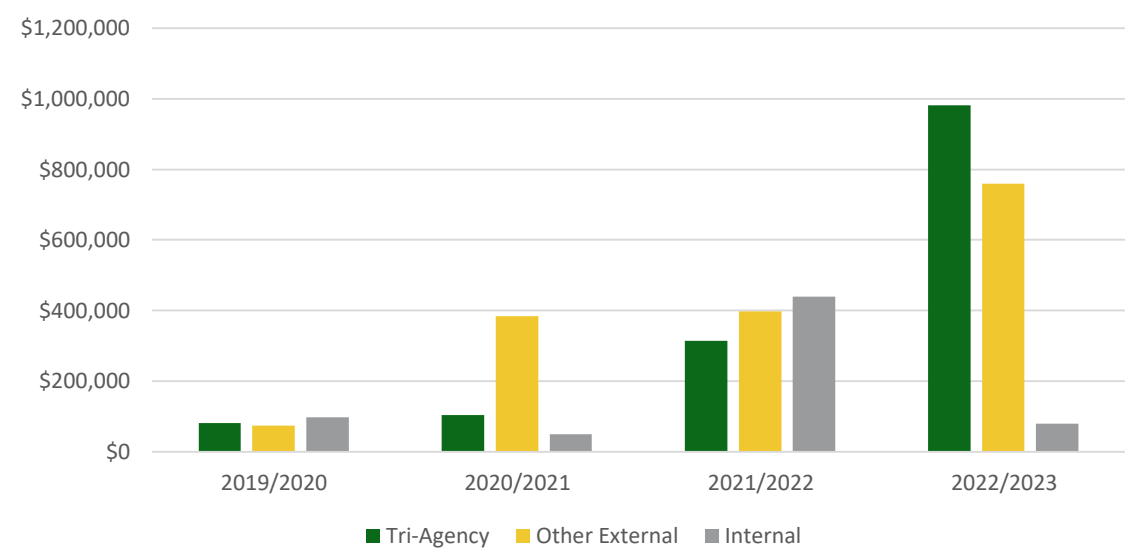
This report included **49** research-active faculty from the Department of Surgery.

# 4. Department of Pediatrics

## 4.1 Research Funding

In the 2022/2023 fiscal year, the Department of Pediatrics saw an increase in awarded dollars. Departmental researchers were granted a total of **\$1,821,223**.

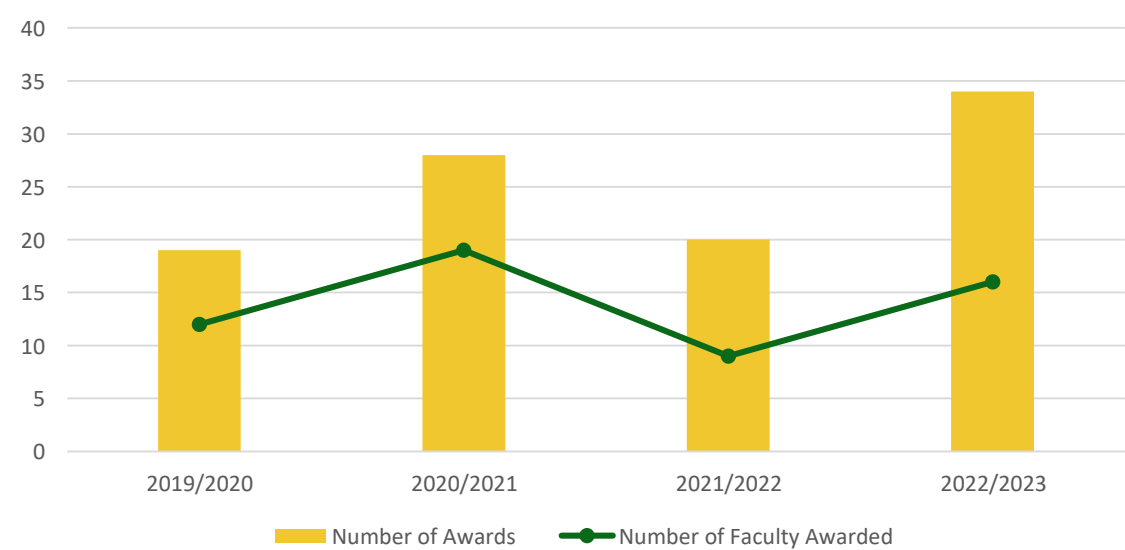
Figure 4.1: Department of Pediatrics Research Funding



## 4.2 Research Projects Awarded

In 2022/2023 Department of Pediatrics faculty were granted **34** awards, received by **16** individual award recipients.

Figure 4.2: Department of Pediatrics Research Projects Awarded



### 4.3 Publications & Citations

The Department of Pediatrics produced **56** publications in 2022.

**Figure 4.3: Department of Pediatrics Annual Publication Count**

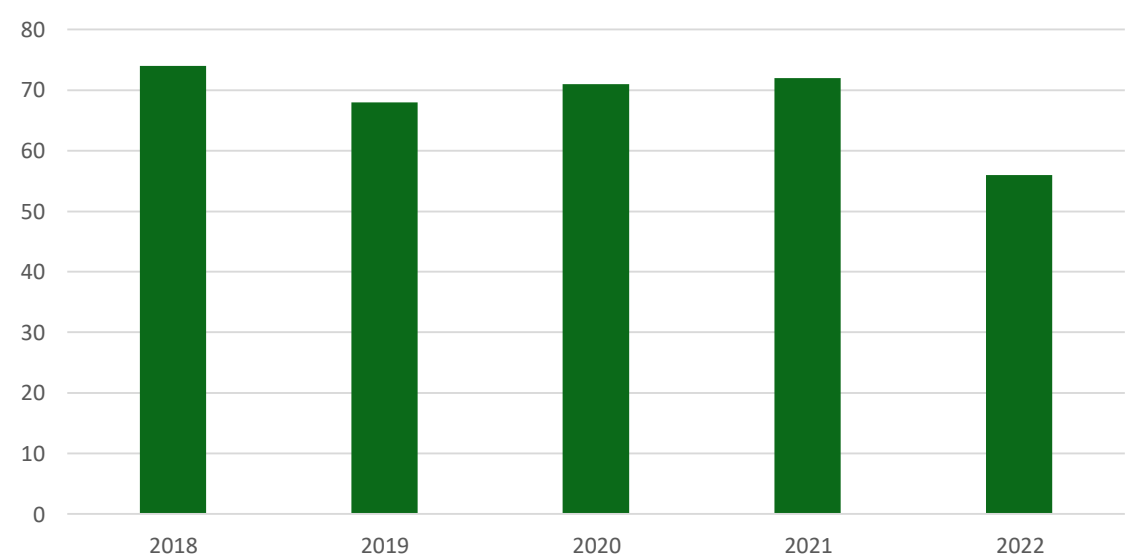
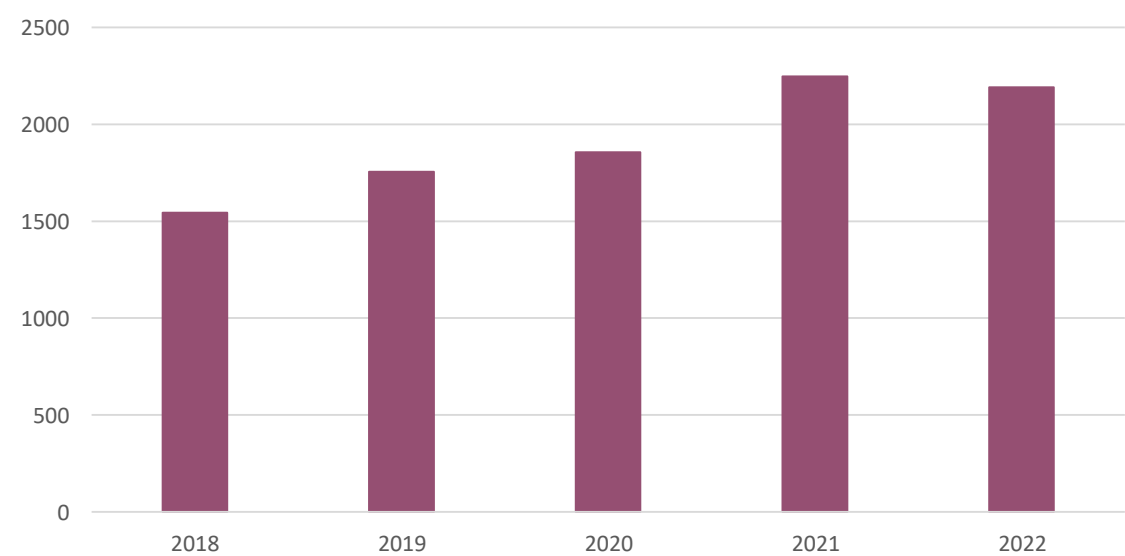


Figure 4.4 shows citation counts for Department of Pediatrics faculty. Departmental publications were cited **2,192** times in 2022.

**Figure 4.4: Department of Pediatrics Annual Citation Count**



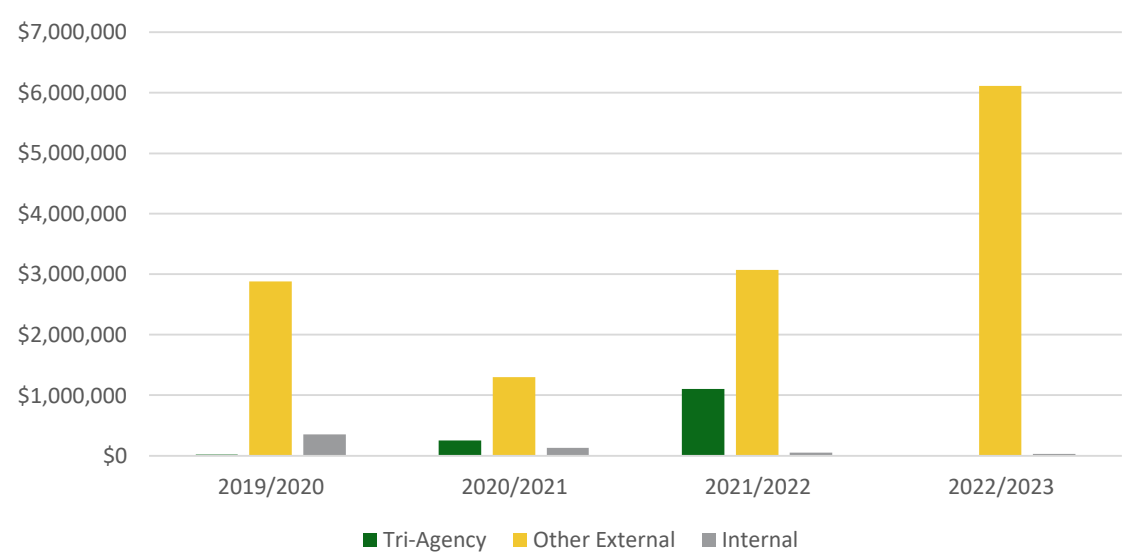
This report included **47** research-active faculty from the Department of Pediatrics.

# 5. Division of Oncology

## 5.1 Research Funding

In the 2022/2023 fiscal year, the Division of Oncology saw an increase in awarded dollars. Departmental researchers were granted a total of **\$6,142,433**.

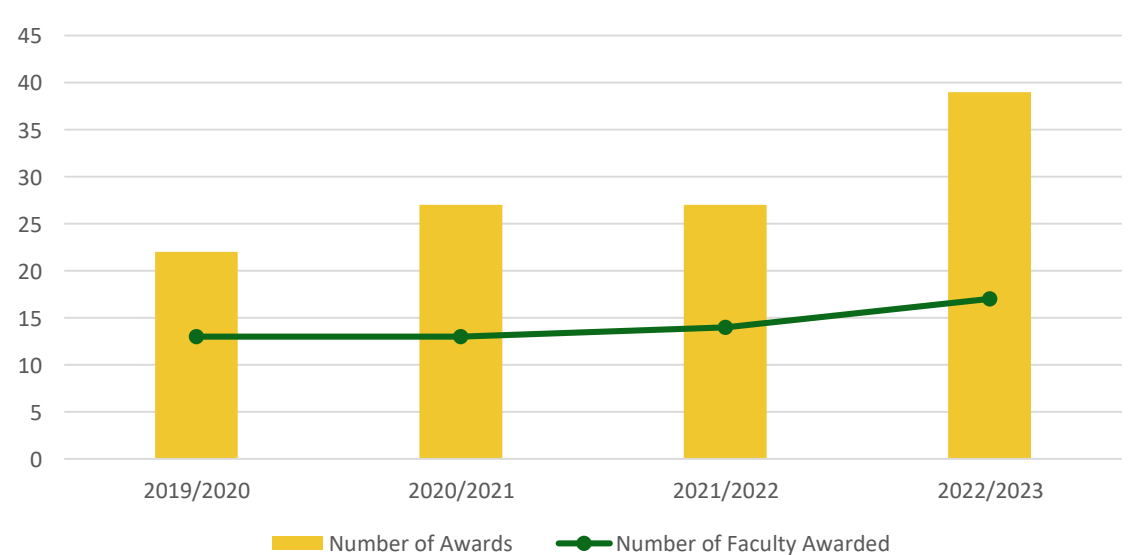
Figure 5.1: Division of Oncology Research Funding



## 5.2 Research Projects Awarded

Division of Oncology faculty were granted **39** awards in 2022/2023, displaying an increasing trend since 2019/2020. The number of unique faculty award recipients increased this year, with **17** individual awardees in 2022/2023.

Figure 5.2: Division of Oncology Research Projects Awarded





### 5.3 Publications & Citations

The division produced **99** publications in 2022.

**Figure 5.3: Division of Oncology Annual Publication Count**

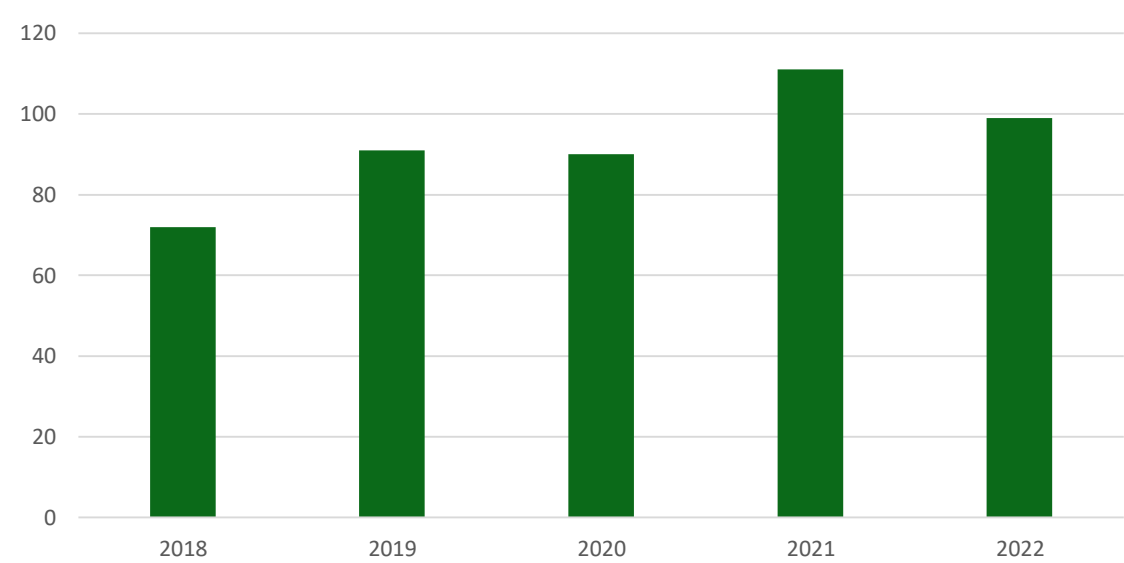
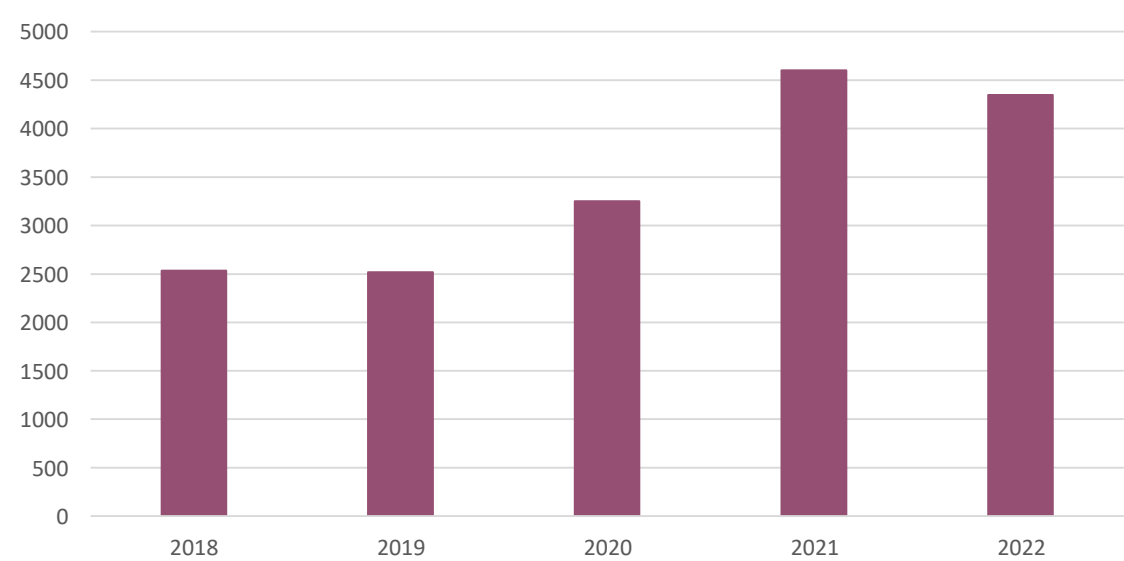


Figure 5.4 shows citation counts for Division of Oncology faculty. Division publications were cited **4,348** times in 2022.

**Figure 5.4: Division of Oncology Annual Citation Count**



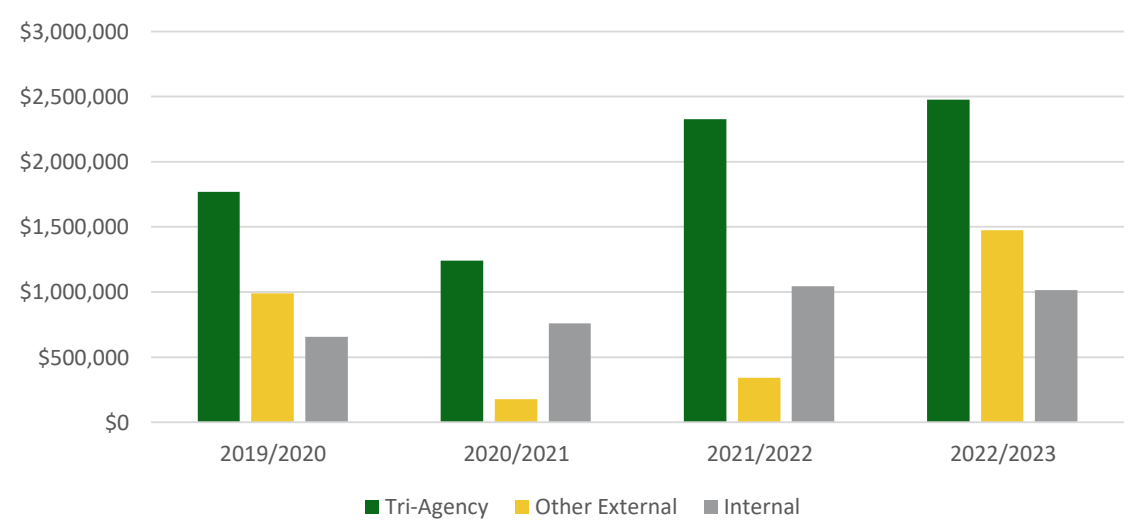
This report included **44** research-active faculty from the Division of Oncology.

# 6. Department of Biochemistry, Microbiology and Immunology

## 6.1 Research Funding

In the 2022/2023 fiscal year, the Department of Biochemistry, Microbiology and Immunology saw an increase in awarded dollars. Departmental researchers were granted a total of \$4,965,524.

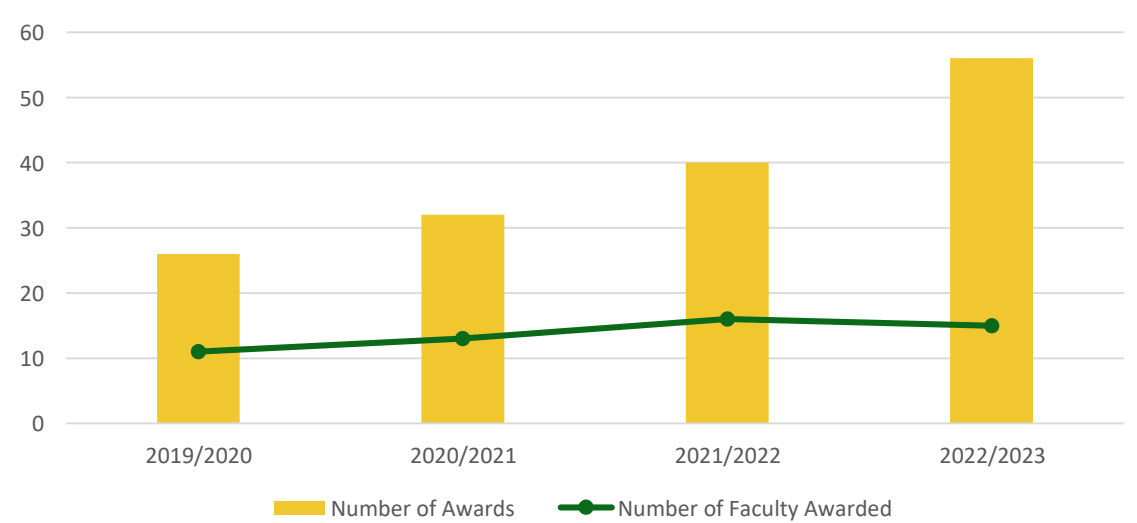
Figure 6.1: Department of Biochemistry, Microbiology and Immunology Research Funding



## 6.2 Research Projects Awarded

Department of Biochemistry, Microbiology and Immunology faculty were granted 56 awards in 2022/2023, displaying an increasing trend since 2019/2020. The number of individual faculty award recipients has remained relatively stable, with 15 awardees in 2022/2023.

Figure 6.2: Department of Biochemistry, Microbiology and Immunology Research Projects Awarded



## 6.3 Publications & Citations

Faculty within the department produced **68** publications in 2022.

**Figure 6.3: Department of Biochemistry, Microbiology and Immunology Annual Publication Count**

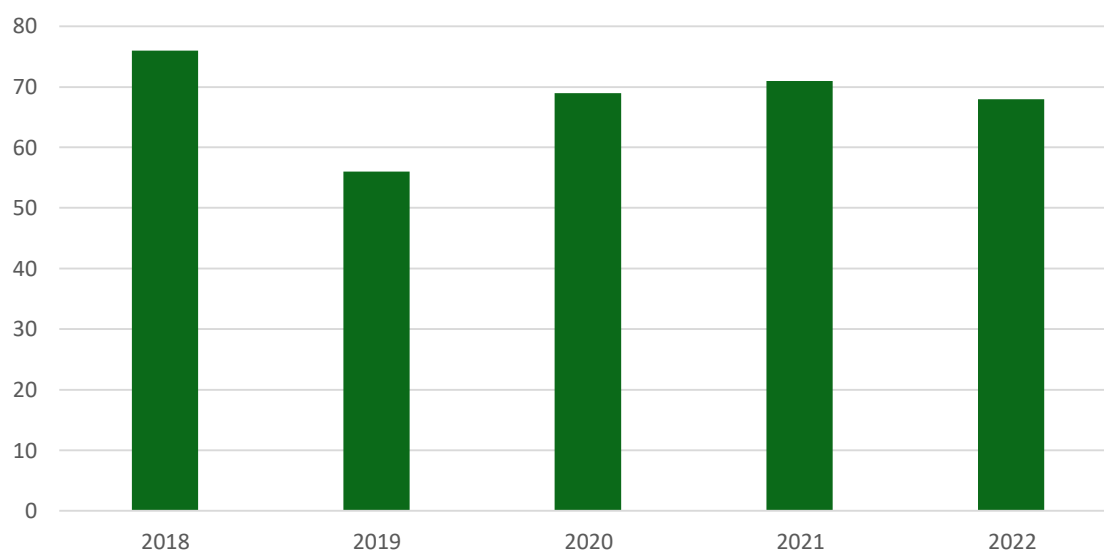
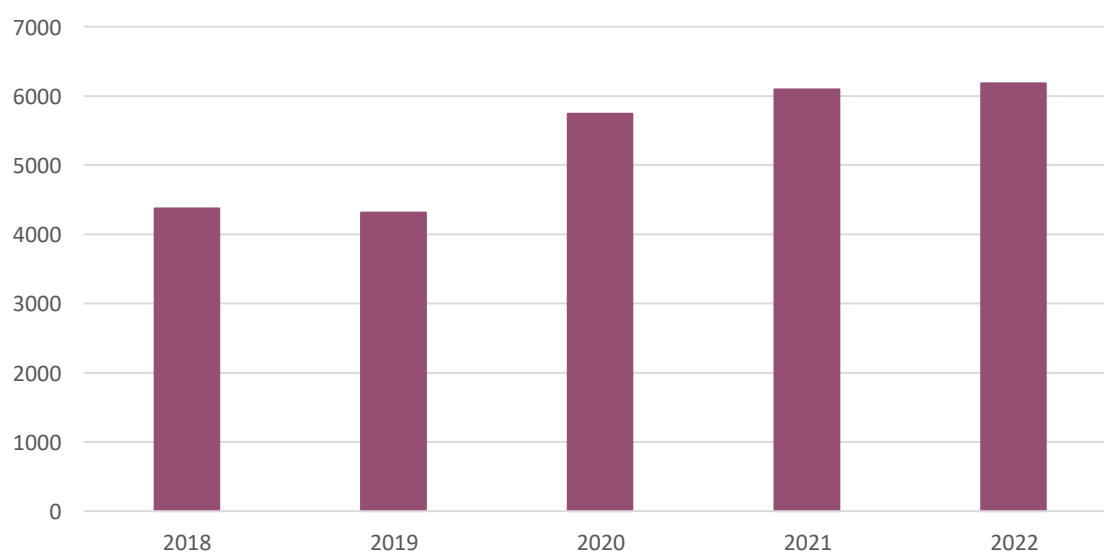


Figure 6.4 shows citation counts for Department of Biochemistry, Microbiology and Immunology faculty. Departmental publications were cited **6,184** times in 2022.

**Figure 6.4: Department of Biochemistry, Microbiology and Immunology Annual Citation Count**



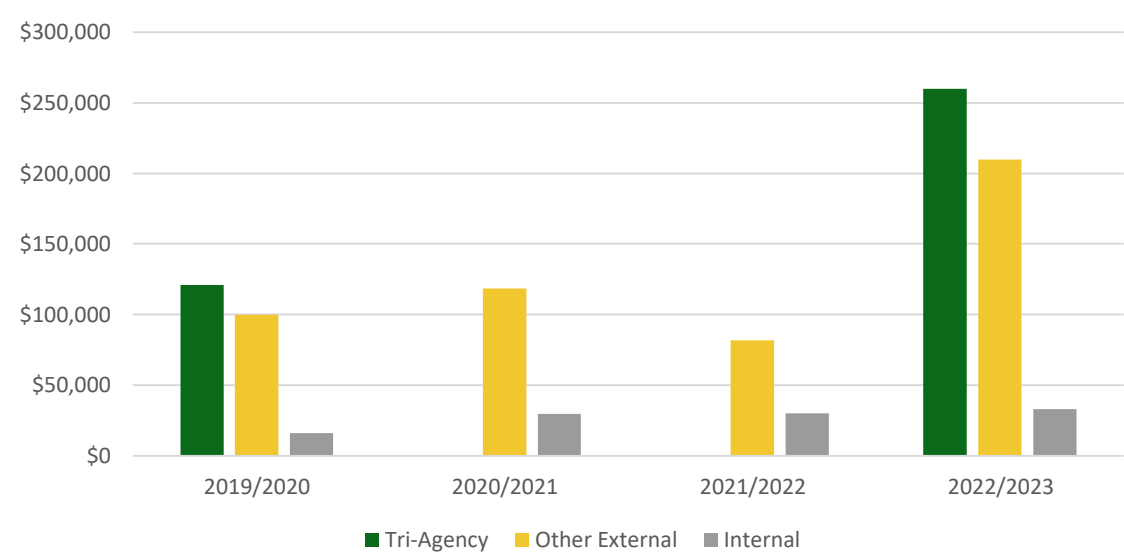
This report included **34** research-active faculty from the Department of Biochemistry, Microbiology and Immunology.

# 7. Department of Academic Family Medicine

## 7.1 Research Funding

In the 2022/2023 fiscal year, Department of Academic Family Medicine researchers saw an increase in awarded dollars. Departmental researchers were granted a total of **\$502,853**.

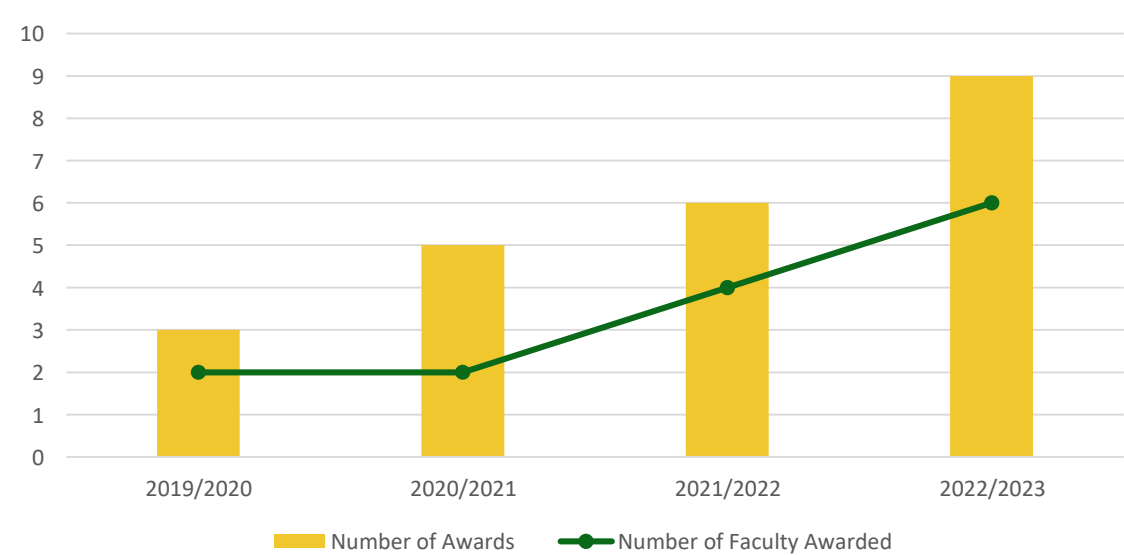
Figure 7.1: Department of Academic Family Medicine Research Funding



## 7.2 Research Projects Awarded

Department of Academic Family Medicine faculty were granted **9** awards in 2022/2023, continuing an increasing trend since 2019/2020. The number of unique faculty award recipients increased as well, with **6** individual awardees in 2022/2023.

Figure 7.2: Department of Academic Family Medicine Research Projects Awarded



### 7.3 Publications & Citations

Faculty within the department produced **49** publications in 2022.

**Figure 7.3: Department of Academic Family Medicine Annual Publication Count**

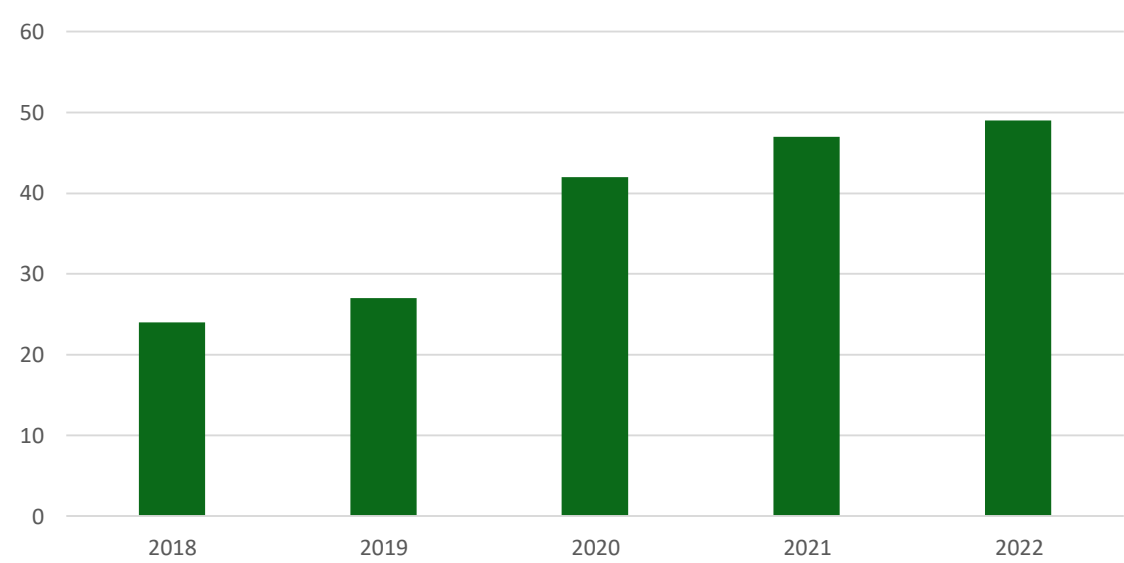
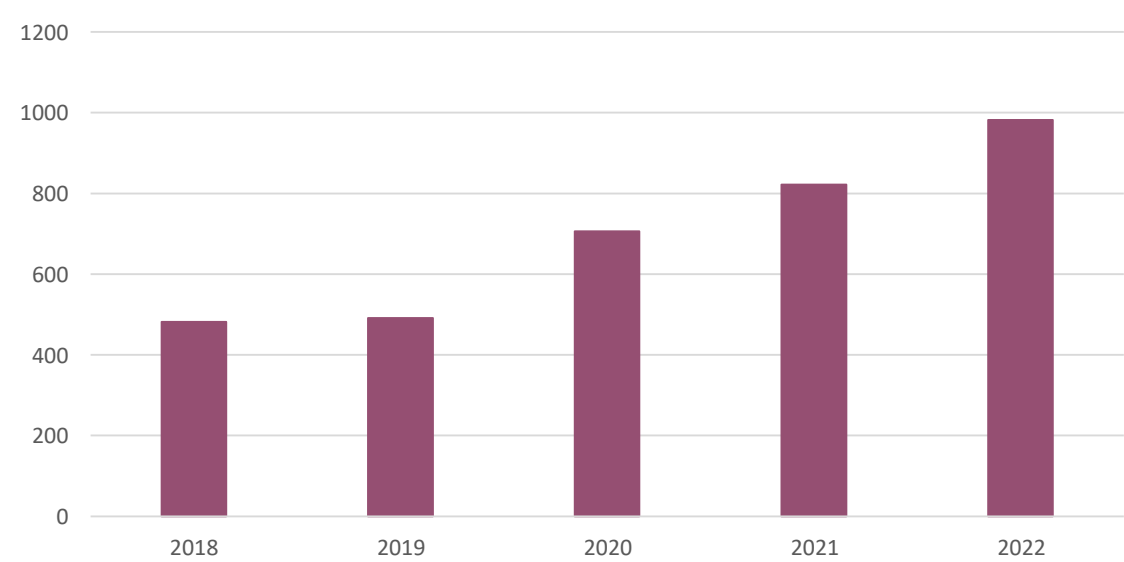


Figure 7.4 shows citation counts for Department of Academic Family Medicine faculty. Departmental publications were cited **982** times in 2022.

**7.4: Department of Academic Family Medicine Annual Citation Count**



This report included **31** research-active faculty from the Department of Academic Family Medicine.

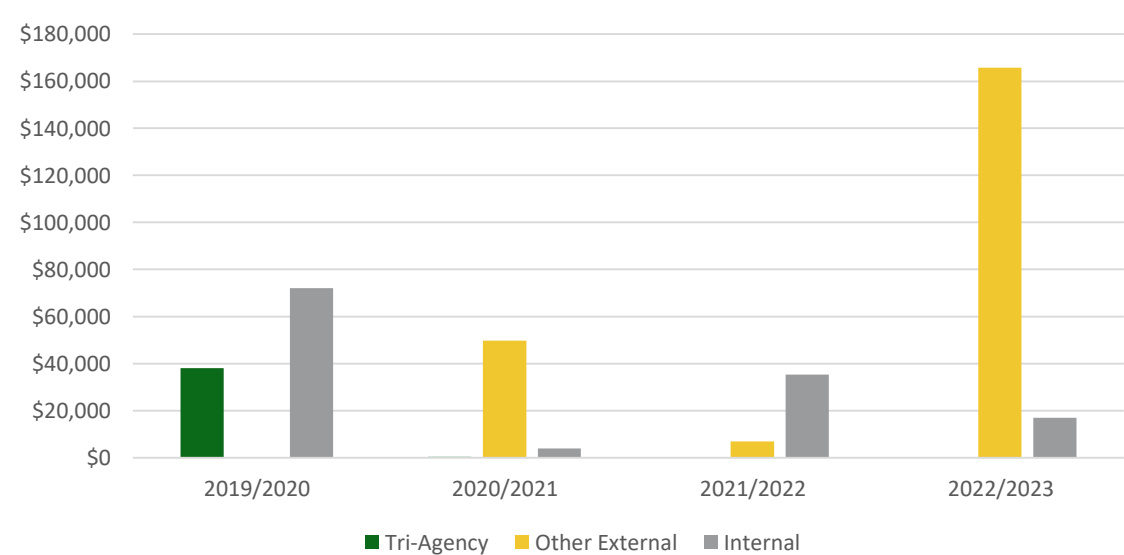


# 8. Department of Anesthesiology, Perioperative Medicine and Pain Management

## 8.1 Research Funding

In the 2022/2023 fiscal year, the Department saw an increase in awarded dollars. Departmental researchers were granted a total of **\$182,826**.

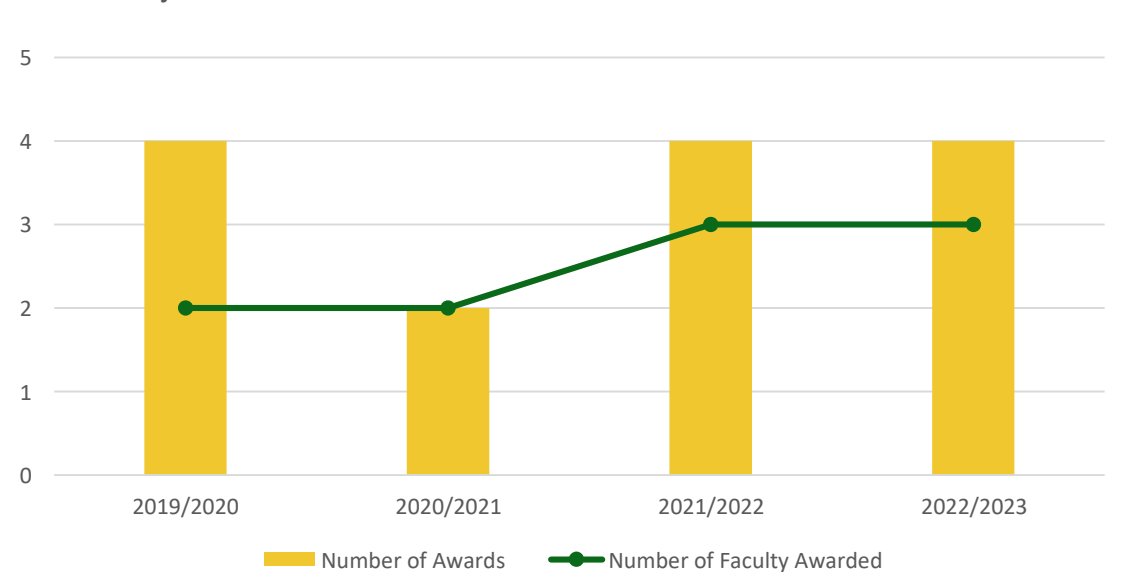
**Figure 8.1: Department of Anesthesiology, Perioperative Medicine and Pain Management Research Funding**



## 8.2 Research Projects Awarded

Department of Anesthesiology, Perioperative Medicine and Pain Management researchers were granted a total of **4** new awards, received by **3** individual award recipients.

**Figure 8.2: Department of Anesthesiology, Perioperative Medicine and Pain Management Research Projects Awarded**



## 8.3 Publications & Citations

Faculty within the department produced **11** publications in 2022.

**Figure 8.3: Department of Anesthesiology, Perioperative Medicine and Pain Management Annual Publication Count**

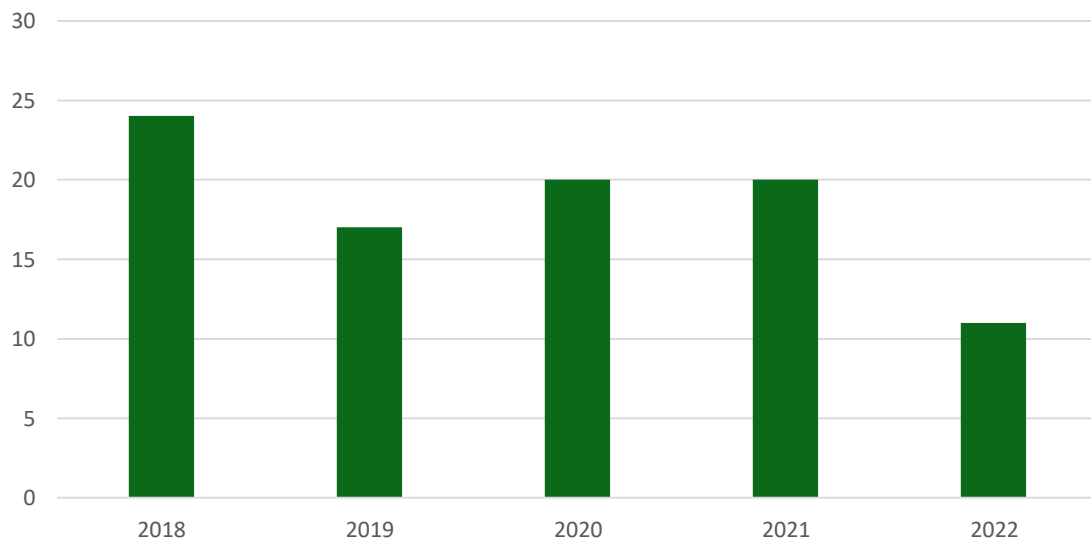
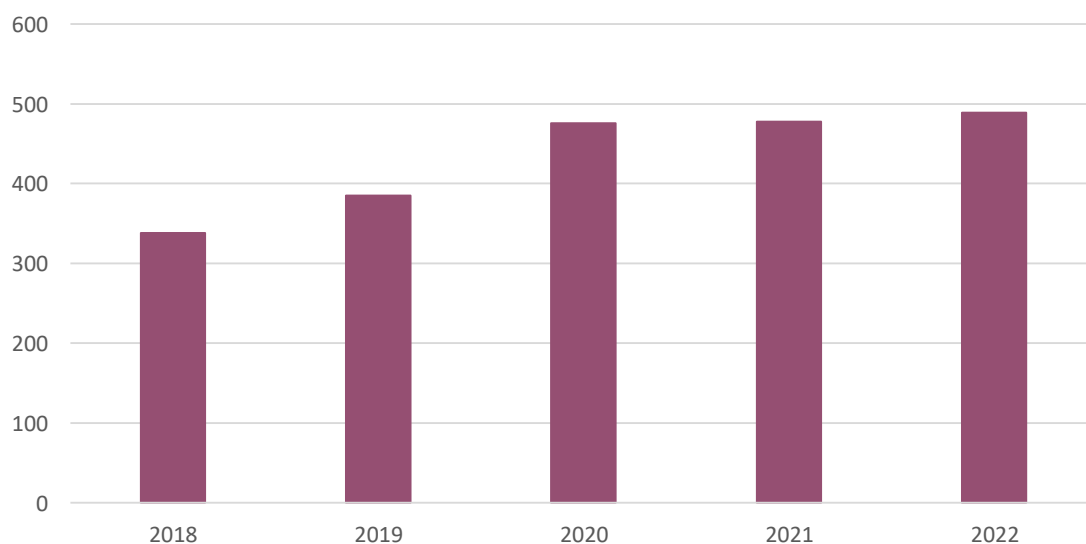


Figure 8.4 shows citation counts for Department of Anesthesiology, Perioperative Medicine and Pain Management faculty. Departmental publications were cited **489** times in 2022.

**Figure 8.4 Department of Anesthesiology, Perioperative Medicine and Pain Management Annual Citation Count**



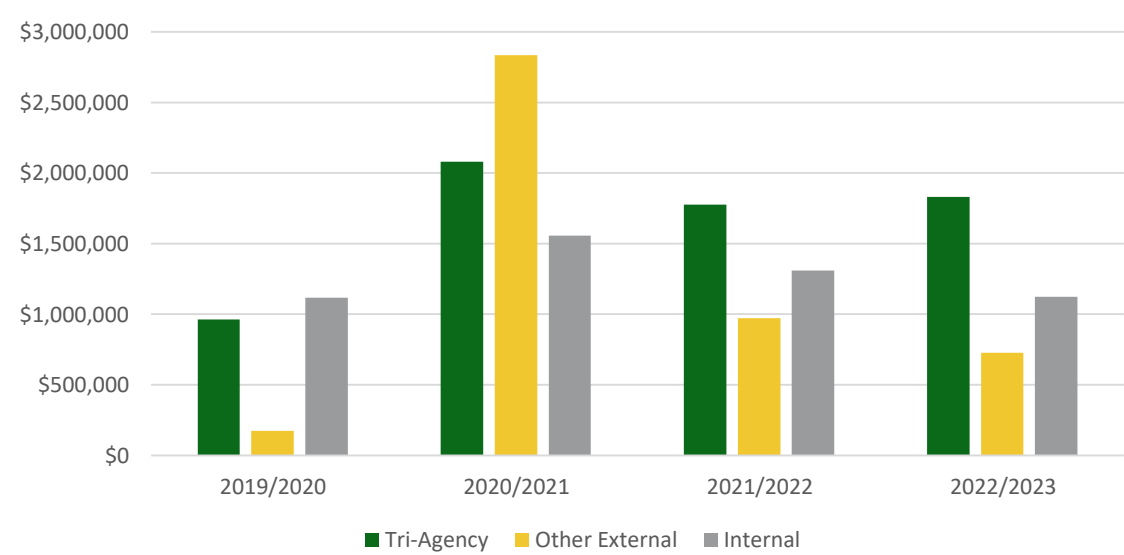
This report included **33** research-active faculty from the Department of Anesthesiology, Perioperative Medicine and Pain Management.

# 9. Department of Anatomy, Physiology and Pharmacology

## 9.1 Research Funding

In the 2022/2023 fiscal year, Department of Anatomy, Physiology and Pharmacology researchers were awarded a total of **\$3,680,464**.

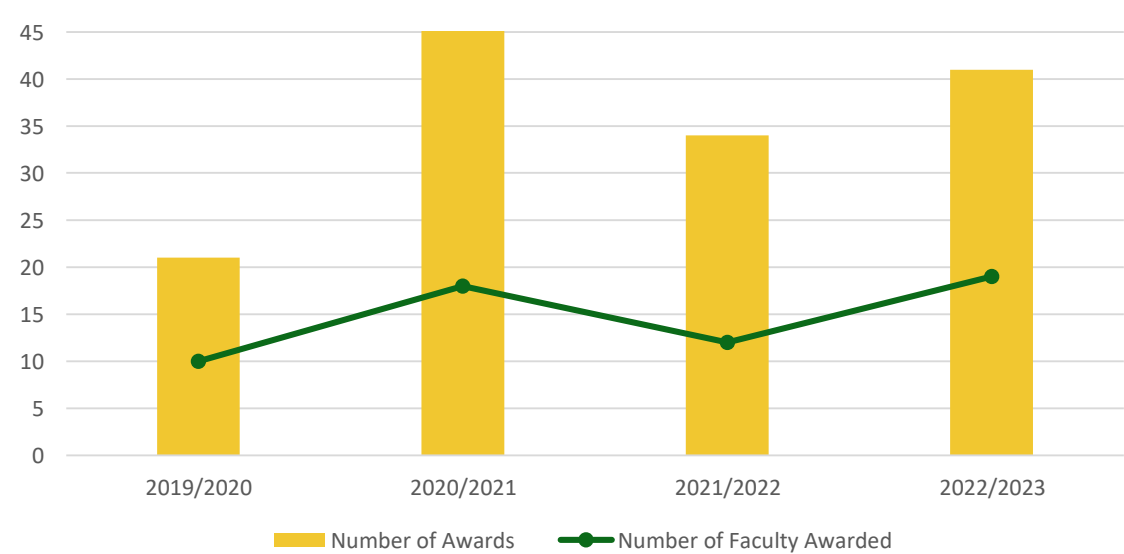
Figure 9.1: Department of Anatomy, Physiology and Pharmacology Research Funding



## 9.2 Research Projects Awarded

In 2022/2023 Department of Anatomy, Physiology and Pharmacology faculty were granted **41** awards, received by **19** individual award recipients.

Figure 9.2: Department of Anatomy, Physiology and Pharmacology Research Projects



### 9.3 Publications & Citations

Faculty within the department produced **78** publications in 2022.

**Figure 9.3: Department of Anatomy, Physiology and Pharmacology Annual Publication Count**

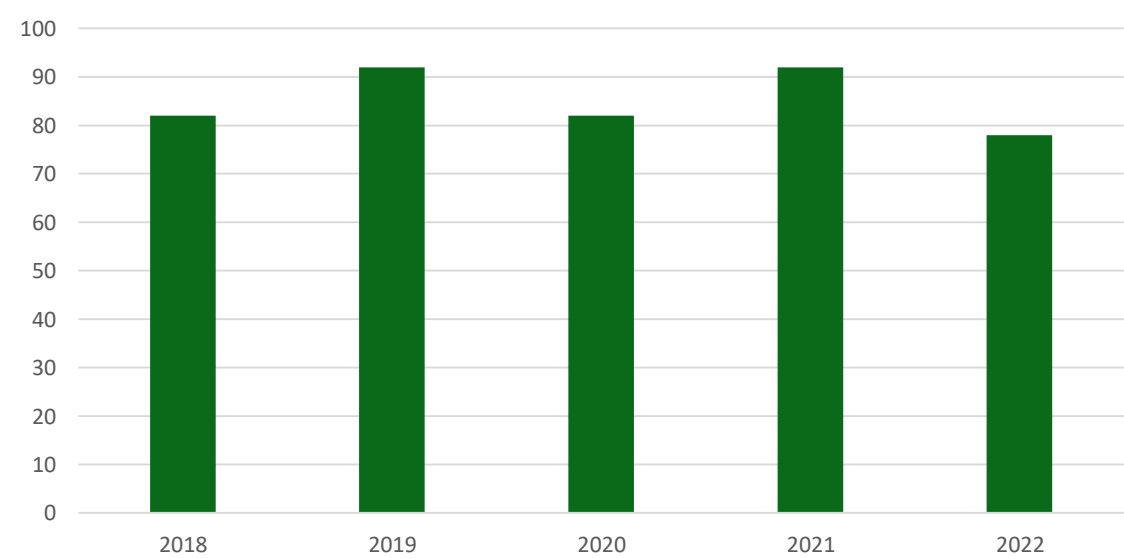
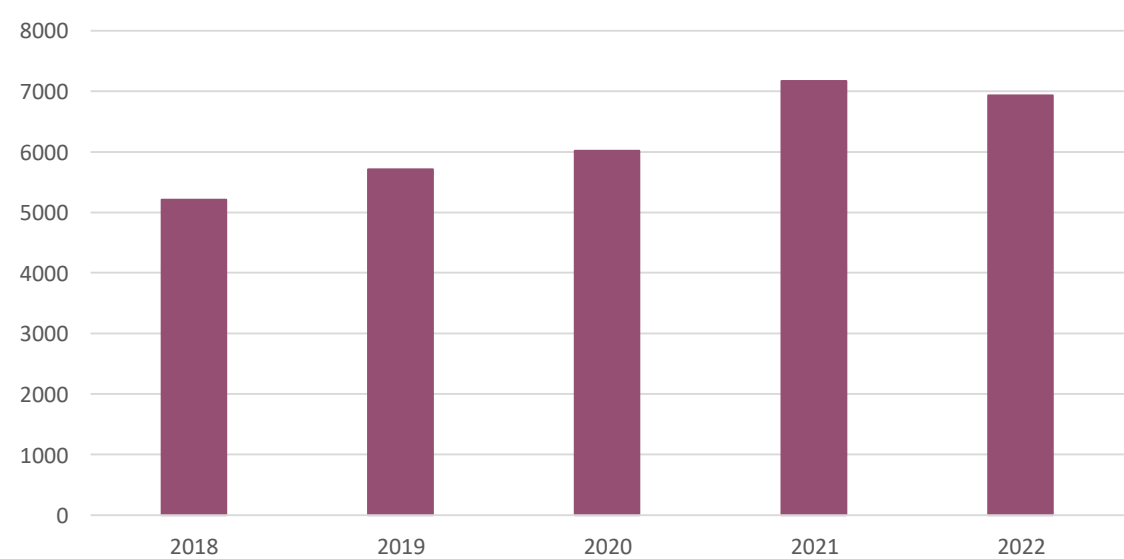


Figure 9.4 shows citation counts for Department of Anatomy, Physiology and Pharmacology faculty. Departmental publications were cited **6,934** times in 2022.

**Figure 9.4: Department of Anatomy, Physiology and Pharmacology Annual Citation Count**



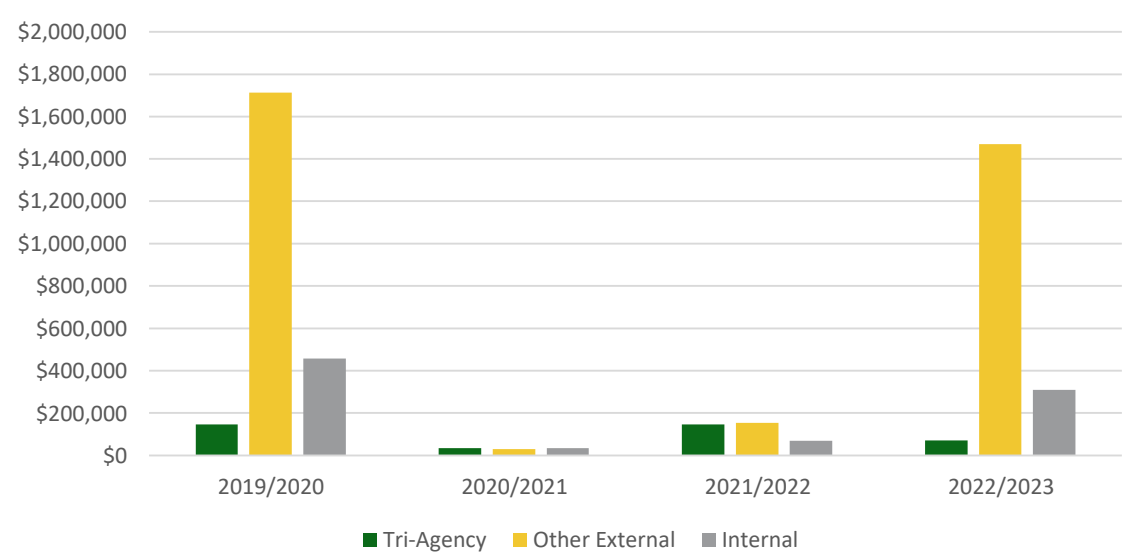
This report included **30** research-active faculty from the Department of Anatomy, Physiology and Pharmacology.

# 10. Department of Pathology and Laboratory Medicine

## 10.1 Research Funding

In the 2022/2023 fiscal year, the Department of Pathology and Laboratory Medicine saw an increase in awarded dollars. Departmental researchers were granted a total of **\$1,850,307**.

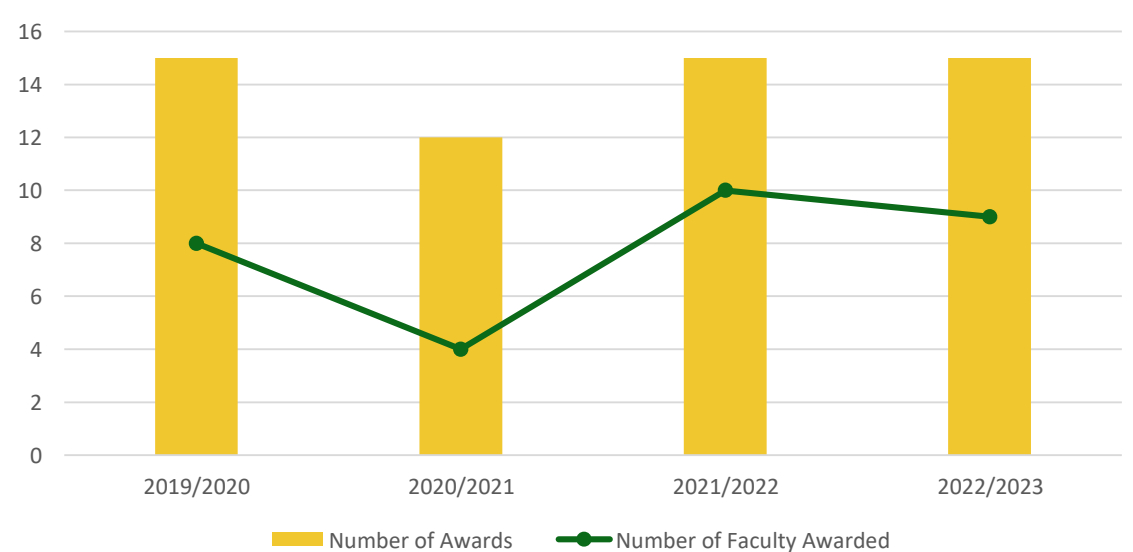
Figure 10.1: Pathology and Laboratory Medicine Research Funding



## 10.2 Research Projects Awarded

In 2022/2023 Department of Pathology and Laboratory Medicine faculty were granted **15** awards, received by **9** individual award recipients.

Figure 10.2: Department of Pathology and Laboratory Medicine Research Projects Awarded





# 10.3 Publications & Citations

Faculty within the department produced **56** publications in 2022.

**Figure 10.3: Department of Pathology and Laboratory Medicine Annual Publication Count**

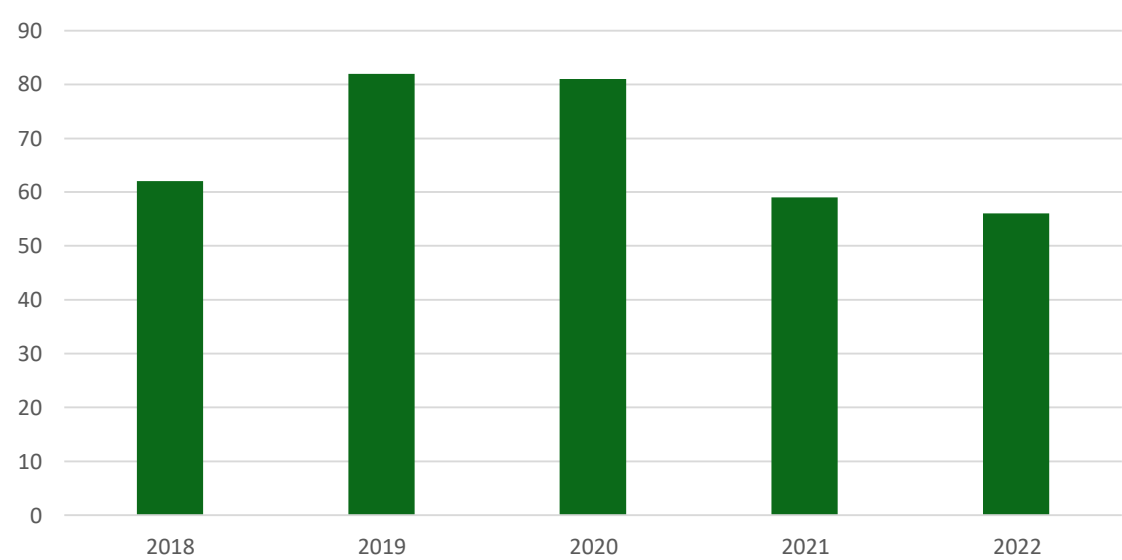
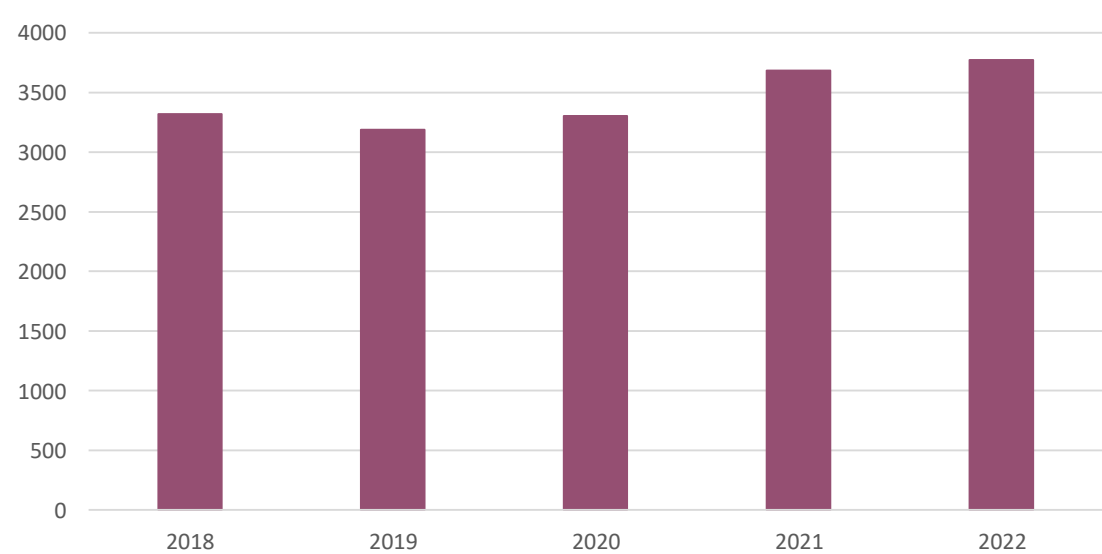


Figure 10.4 shows citation counts for Department of Pathology and Laboratory Medicine faculty. Departmental publications were cited **3,773** times in 2022.

**Figure 10.4: Department of Pathology and Laboratory Medicine Annual Citation Count**



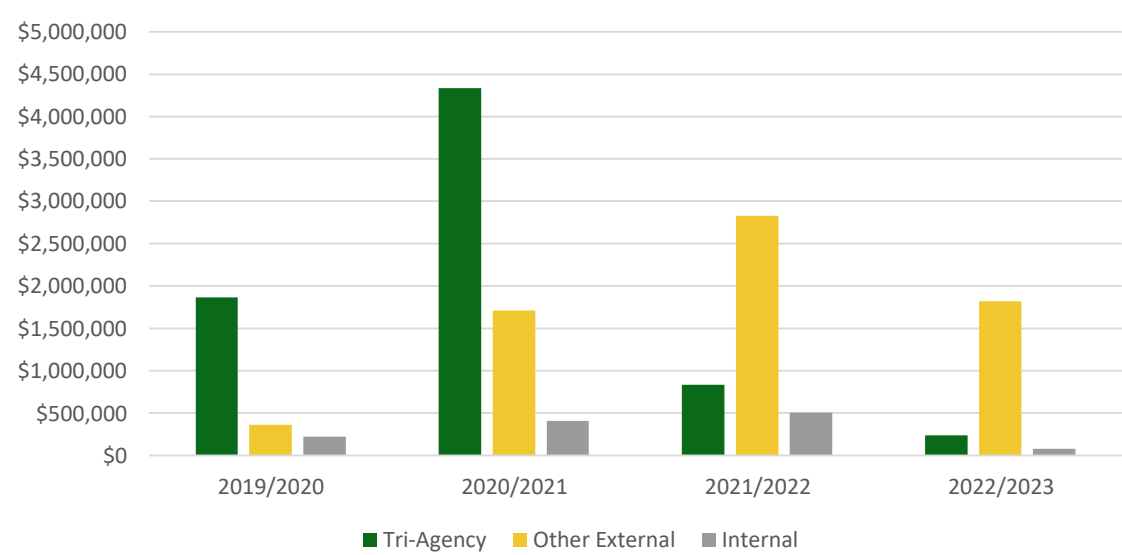
This report included **26** research-active faculty from the Department of Pathology and Laboratory Medicine.

# 11. Department of Community Health and Epidemiology

## 11.1 Research Funding

In the 2022/2023 fiscal year, Department of Community Health and Epidemiology researchers were awarded a total of **\$2,137,096**.

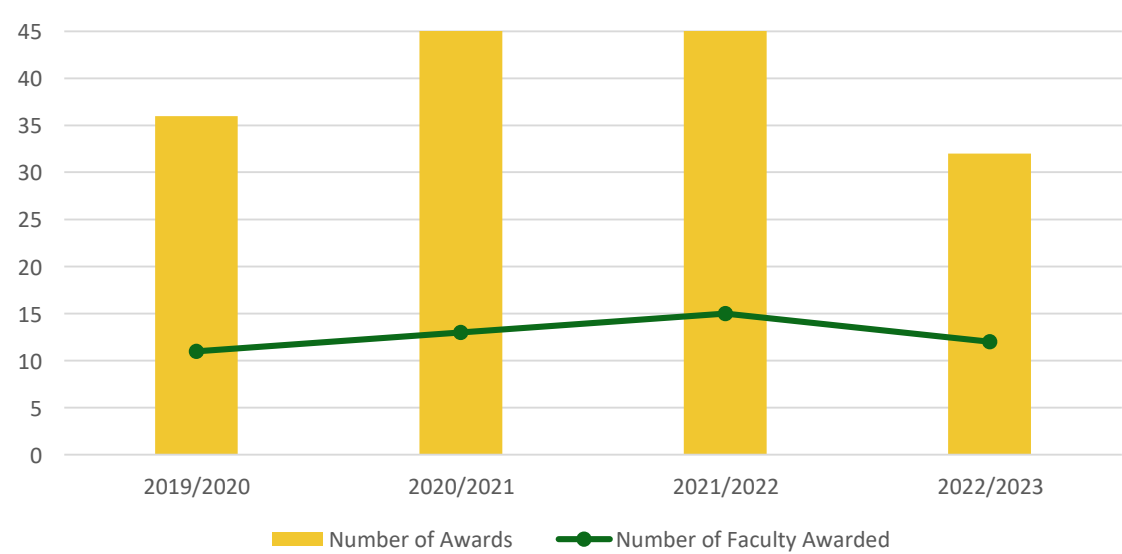
Figure 11.1: Department of Community Health and Epidemiology Research Funding



## 11.2 Research Projects Awarded

Researchers in the Department of Community Health and Epidemiology were granted **32** awards in 2022/2023, received by **12** individual awardees.

Figure 11.2: Department of Community Health and Epidemiology Research Projects Awarded



### 11.3 Publications & Citations

Faculty within the department produced **124** publications in 2022.

**Figure 11.3: Department of Community Health and Epidemiology Annual Publication Count**

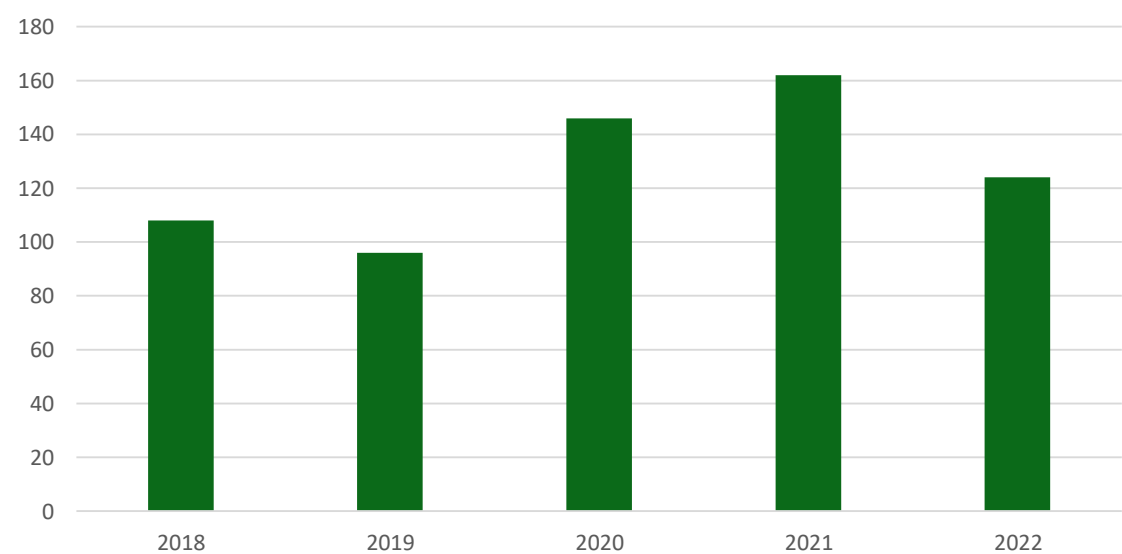
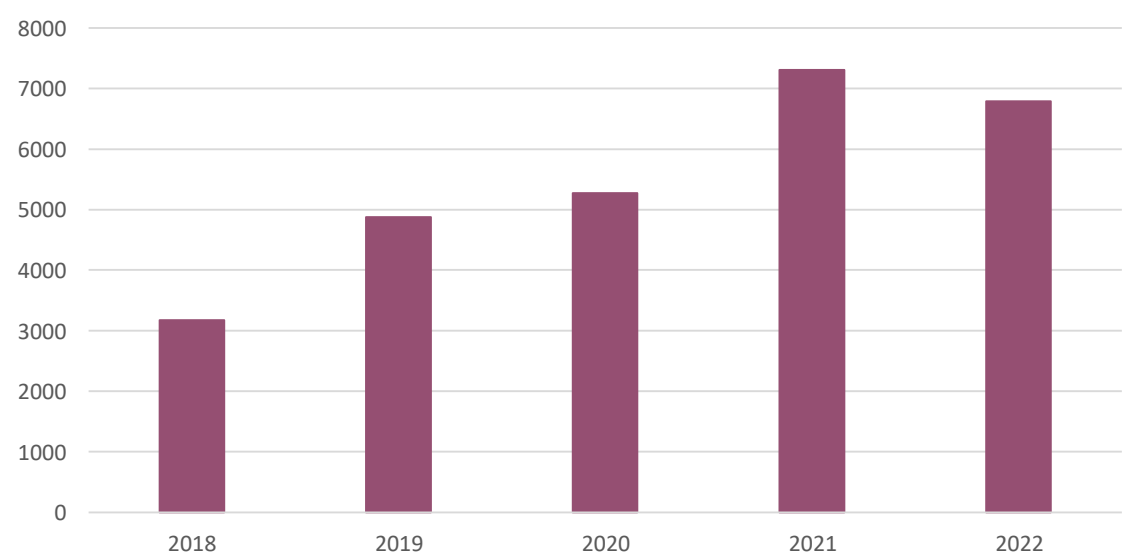


Figure 11.4 shows citation counts for Department of Community Health and Epidemiology faculty. Departmental publications were cited **6,788** times in 2022.

**Figure 11.4: Department of Community Health and Epidemiology Annual Citation Count**



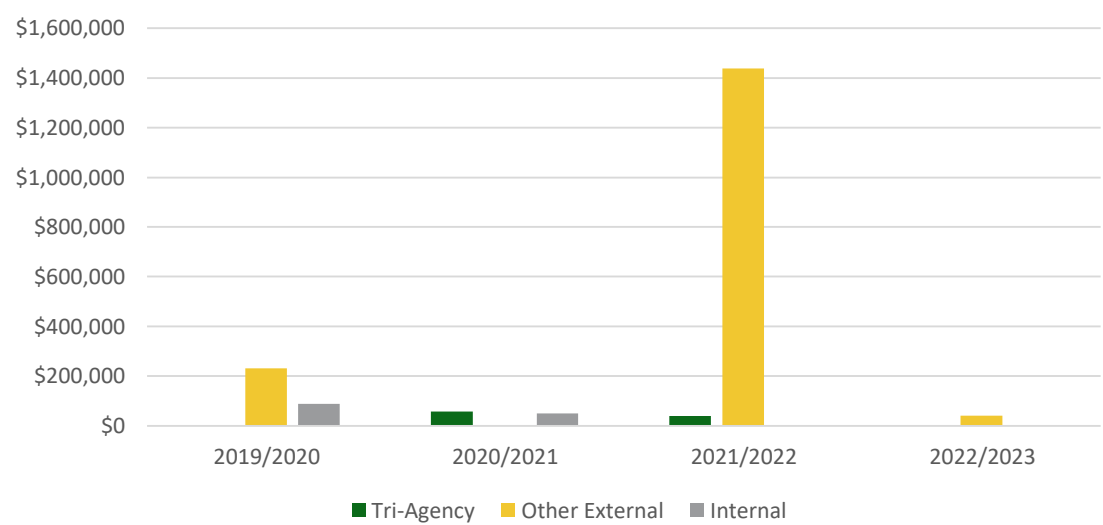
This report included **27** research-active faculty from the Department of Community Health and Epidemiology.

# 12. Department of Emergency Medicine

## 12.1 Research Funding

In the 2022/2023 fiscal year, Department of Emergency Medicine researchers were awarded a total of \$41,488.

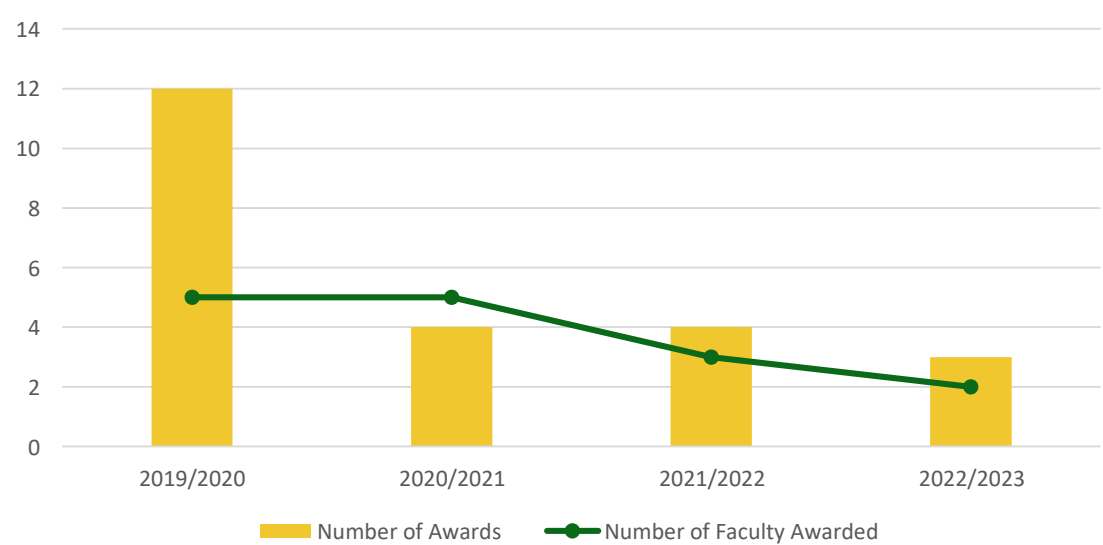
Figure 12.1: Department of Emergency Medicine Research Funding



## 12.2 Research Projects Awarded

In 2022/2023 Department of Emergency Medicine faculty were granted 3 awards, received by 2 unique faculty members.

Figure 12.2: Department of Emergency Medicine Research Projects Awarded



## 12.3 Publications & Citations

Faculty within the department produced **30** publications in 2022.

**Figure 12.3: Department of Emergency Medicine Annual Publication Count**

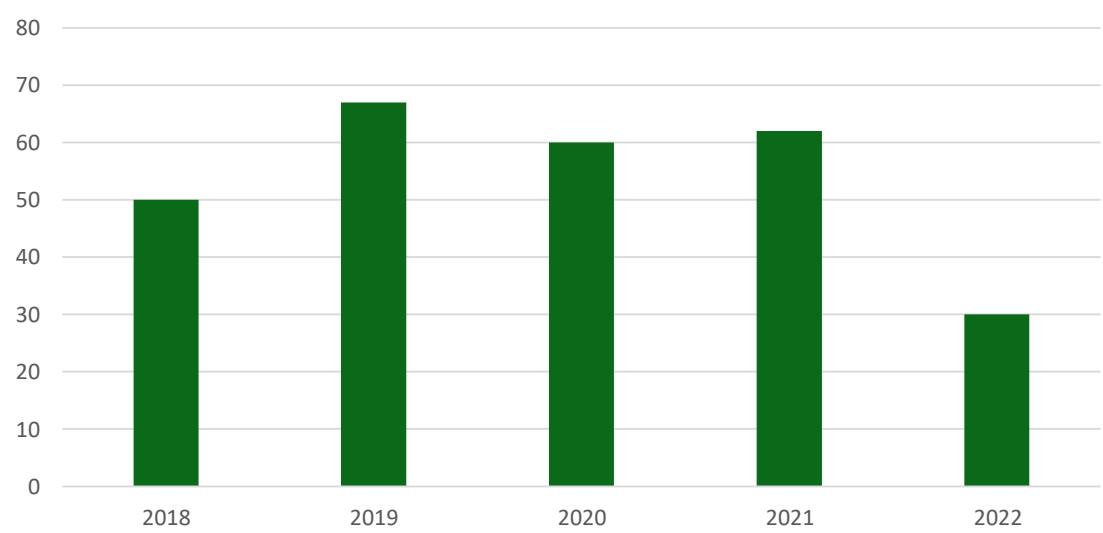
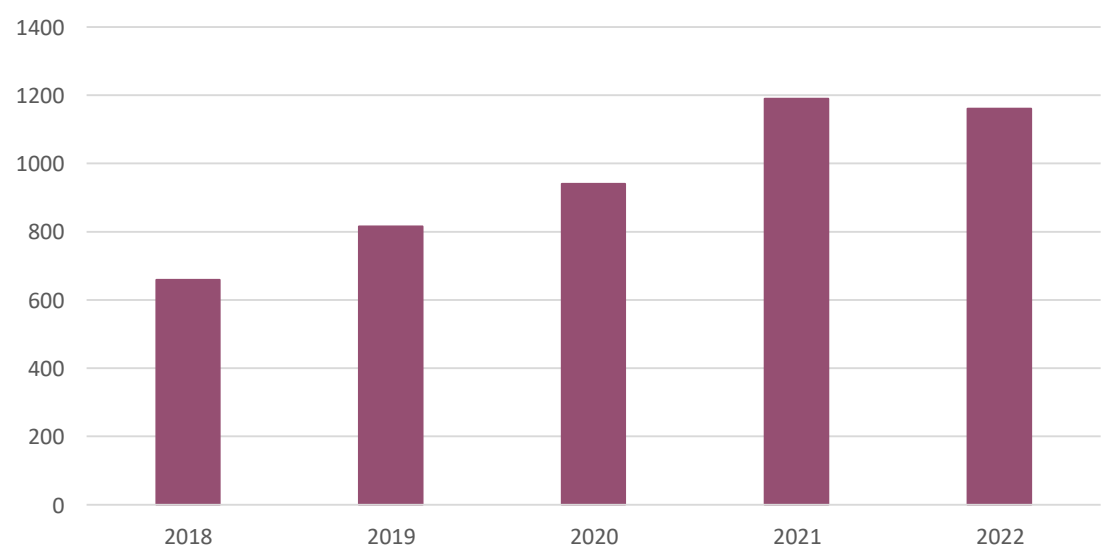


Figure 12.4 shows citation counts for Department of Emergency Medicine faculty. Departmental publications were cited **1,161** times in 2022.

**Figure 12.4: Department of Emergency Medicine Annual Citation Count**



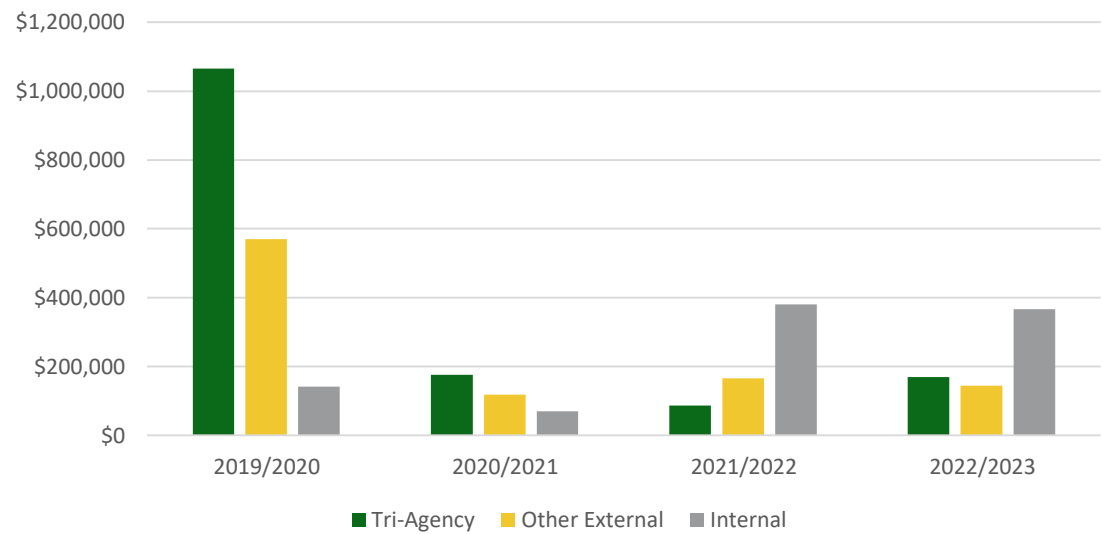
This report included **14** research-active faculty from the Department Emergency Medicine.

# 13. Department of Psychiatry

## 13.1 Research Funding

In the 2022/2023 fiscal year, Department of Psychiatry researchers were awarded a total of \$680,339.

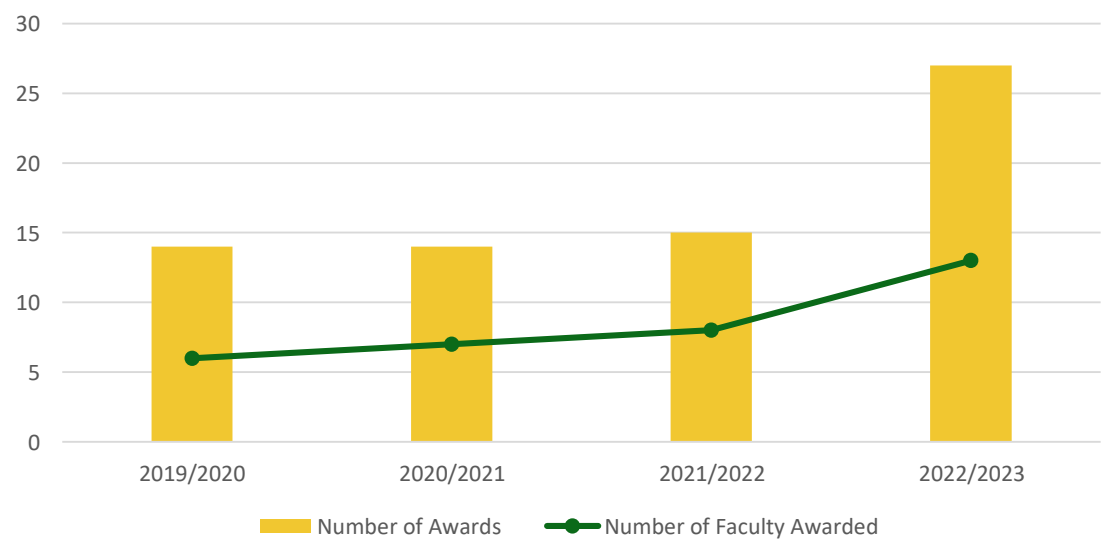
Figure 14.1: Department of Psychiatry Research Funding



## 13.2 Research Projects Awarded

Department of Psychiatry faculty were granted 27 awards in 2022/2023. The number of unique faculty award recipients increased this year, with 13 individual awardees in 2022/2023.

Figure 13.2: Department of Psychiatry Research Projects Awarded



### 13.3 Publications & Citations

Faculty within the department produced **66** publications in 2022.

**Figure 13.3: Department of Psychiatry Annual Publication Count**

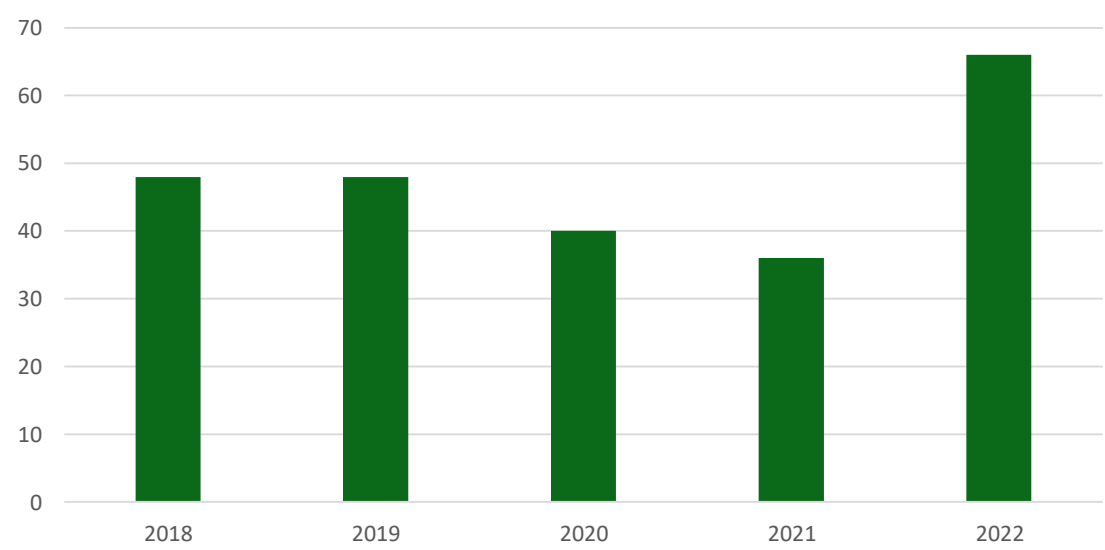
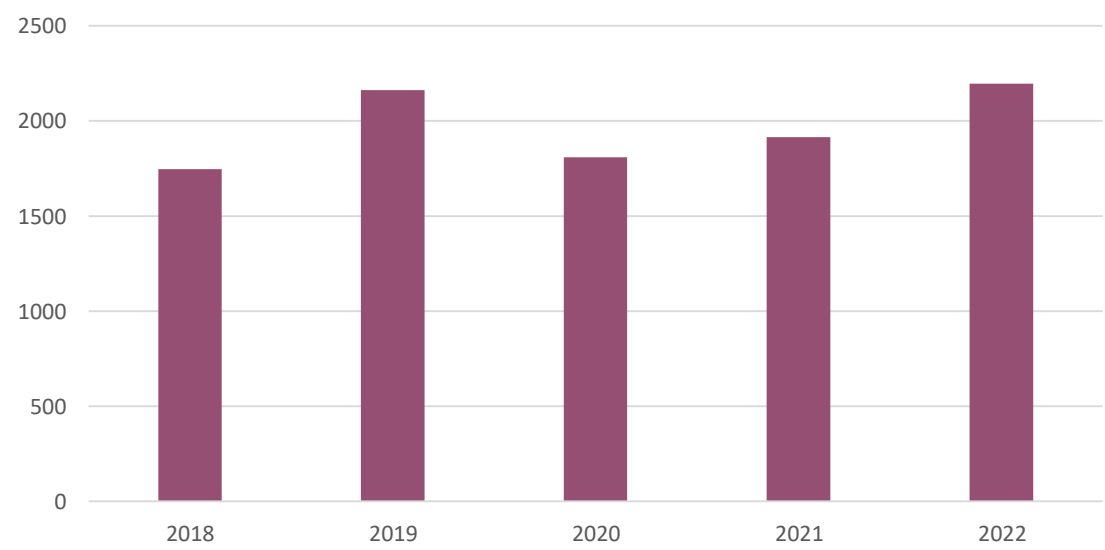


Figure 13.4 shows citation counts for Department of Psychiatry faculty. Departmental publications were cited **2,195** times in 2022.

**Figure 13.4: Department of Psychiatry Annual Citation Count**



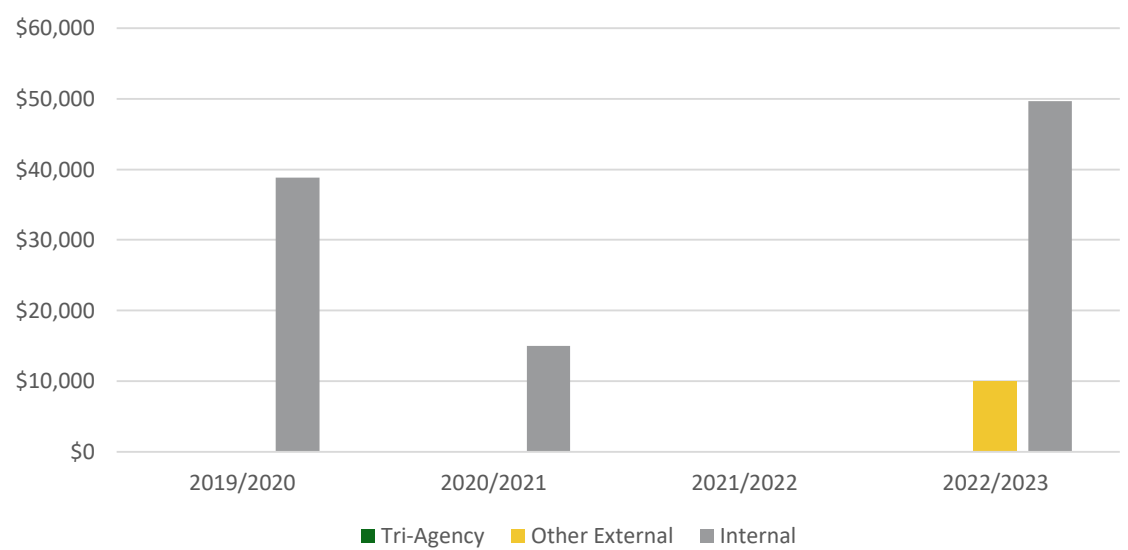
This report included **15** research-active faculty from the Department of Psychiatry.

# 14. Department of Obstetrics and Gynecology

## 14.1 Research Funding

In the 2022/2023 fiscal year, Department of Obstetrics and Gynecology researchers were awarded \$59,700.

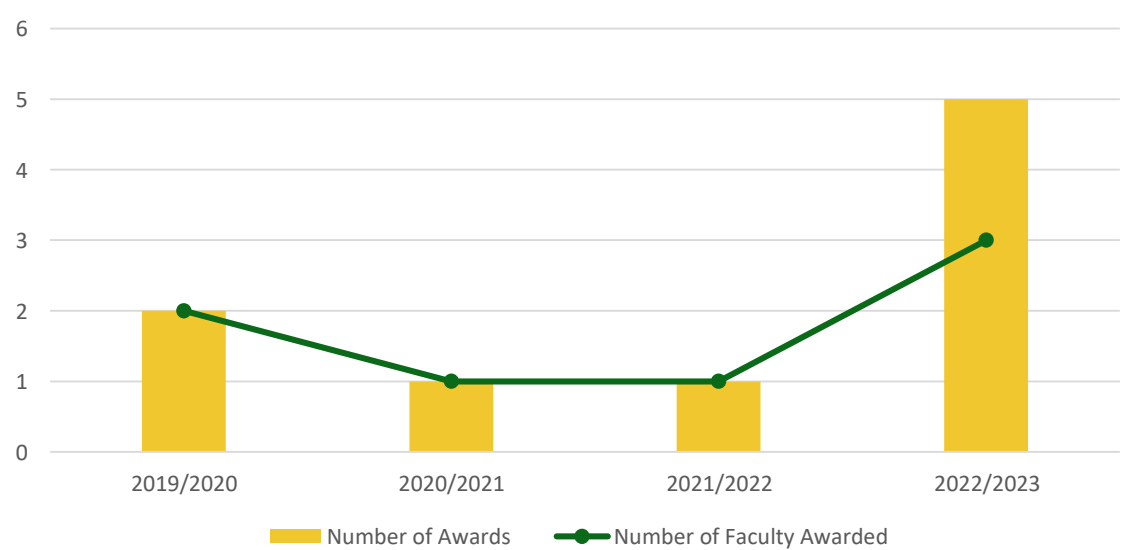
Figure 14.1: Department of Obstetrics and Gynecology Research Funding



## 14.2 Research Projects Awarded

Department of Obstetrics and Gynecology faculty were granted 5 awards in 2022/2023. The number of unique faculty award recipients increased this year, with 3 individual awardees in 2022/2023.

Figure 14.2: Department of Obstetrics and Gynecology Research Projects Awarded





### 14.3 Publications & Citations

Faculty within the department produced **16** publications in 2022.

**Figure 14.3: Department of Obstetrics and Gynecology Annual Publication Count**

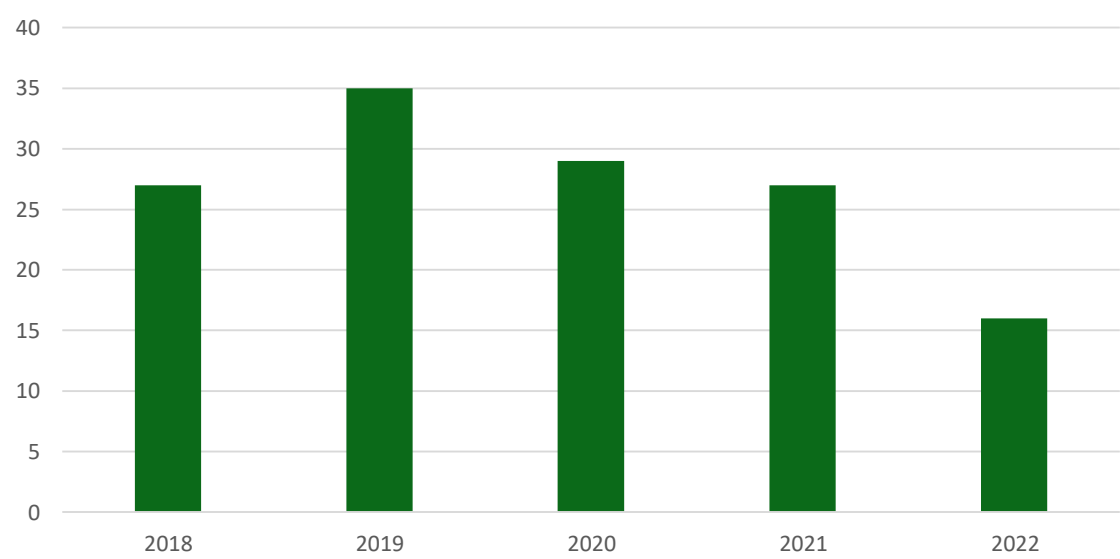
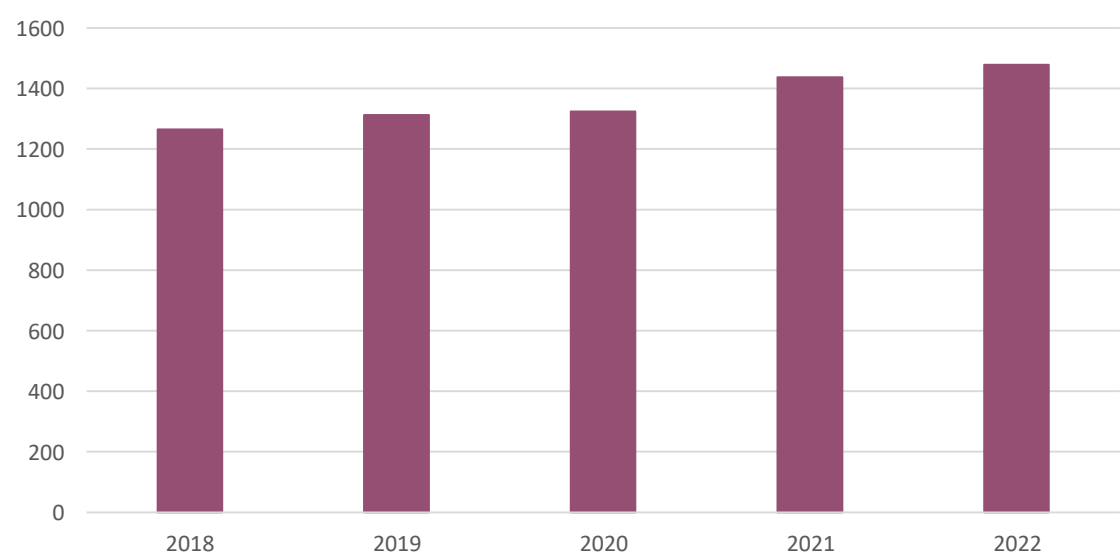


Figure 14.4 shows citation counts for Department of Obstetrics and Gynecology faculty. Departmental publications were cited **1,478** times in 2022.

**Figure 14.4: Department of Obstetrics and Gynecology Annual Citation Count**



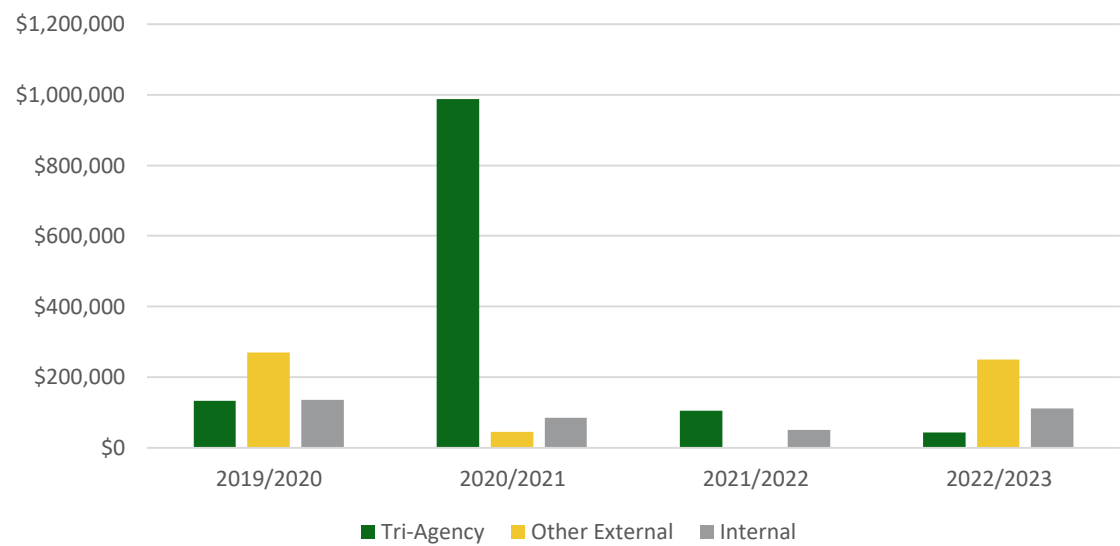
This report included **14** research-active faculty from the Department of Obstetrics and Gynecology.

# 15. Department of Medical Imaging

## 15.1 Research Funding

In the 2022/2023 fiscal year, Department of Medical Imaging researchers were awarded a total of **\$404,094**.

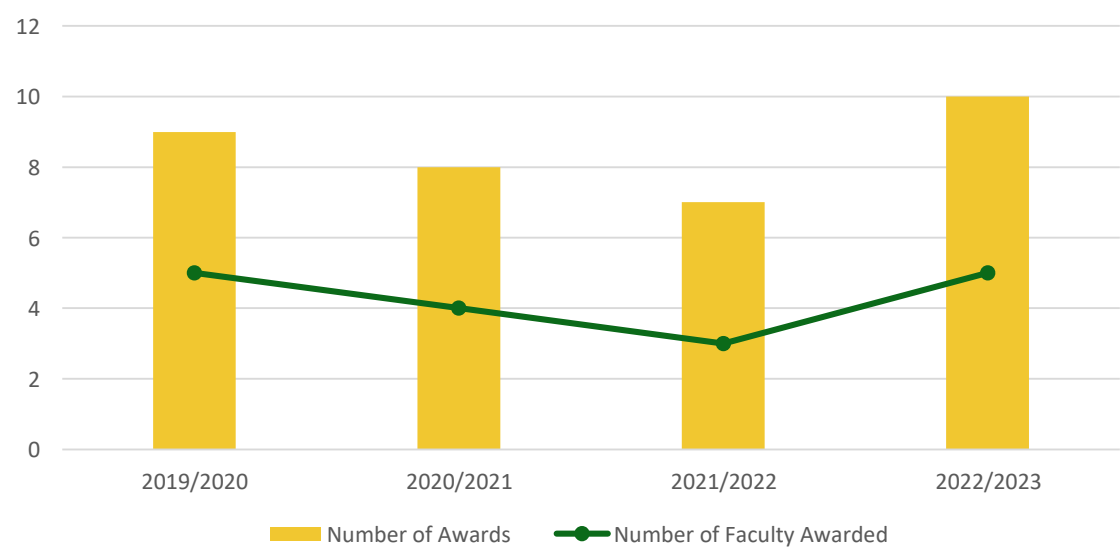
Figure 15.1: Department of Medical Imaging Research Funding



## 15.2 Research Projects Awarded

In 2022/2023 Department of Medical Imaging faculty were granted **10** awards, received by **5** awardees.

Figure 15.2: Department of Medical Imaging Research Projects Awarded



### 15.3 Publications & Citations

Faculty within the department produced **43** publications in 2022.

**Figure 15.3: Department of Medical Imaging Annual Publication Count**

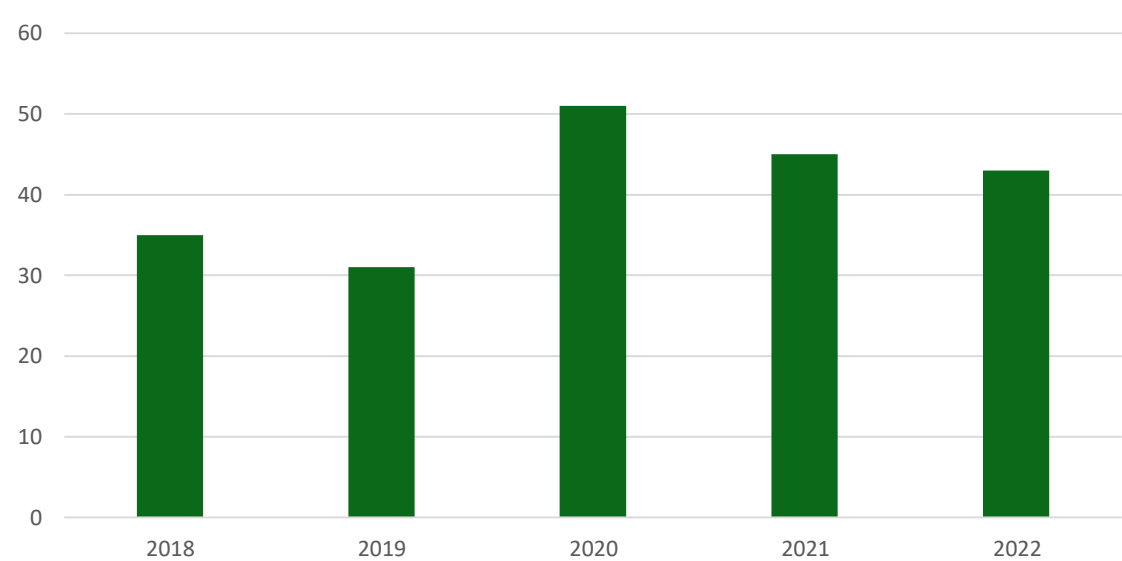
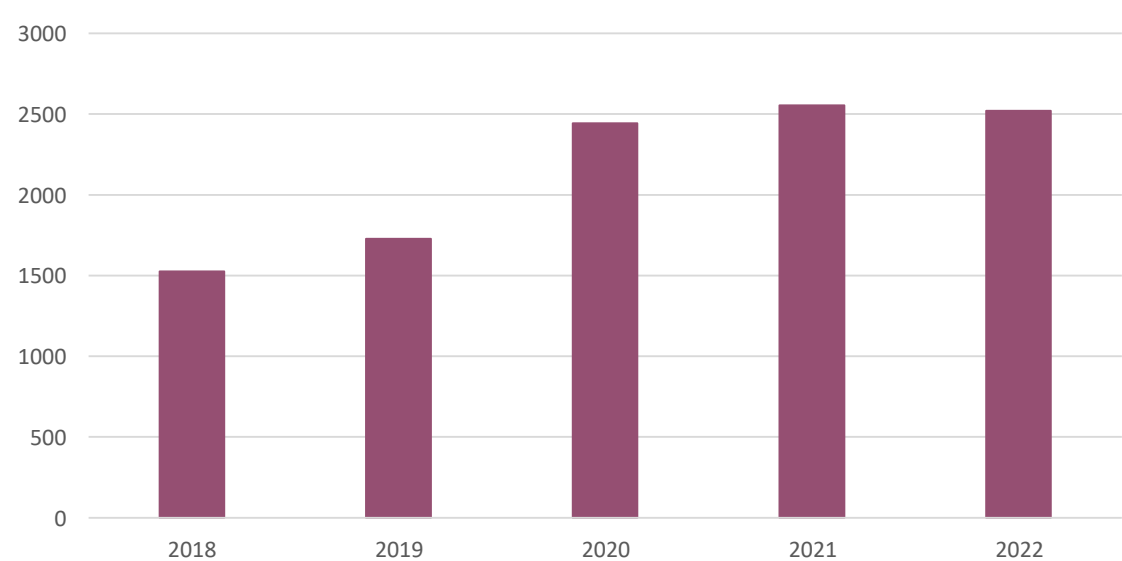


Figure 15.4 shows citation counts for Department of Medical Imaging faculty. Departmental publications were cited **2,521** times in 2022.

**Figure 15.4: Department of Medical Imaging Annual Citation Count**



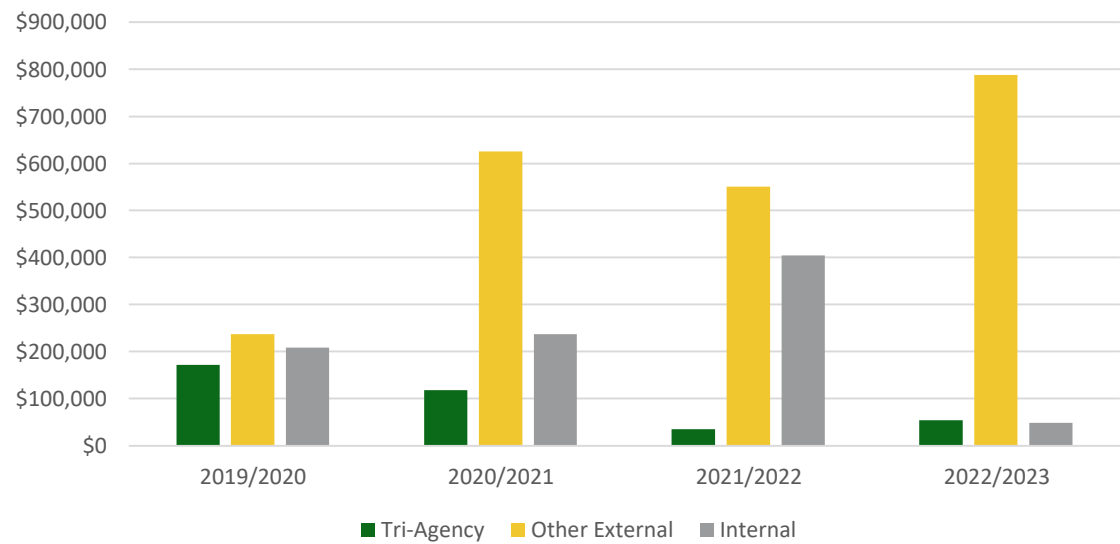
This report included **14** research-active faculty from the Department of Medical Imaging.

# 16. School of Rehabilitation Science

## 16.1 Research Funding

In the 2022/2023 fiscal year, School of Rehabilitation Science researchers were awarded a total of **\$890,661**.

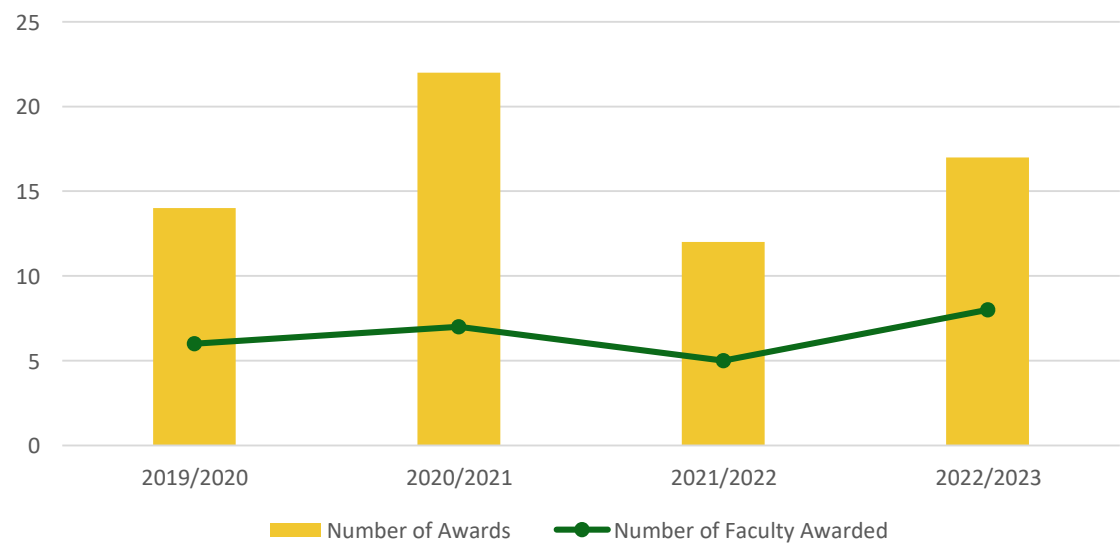
**Figure 16.1: School of Rehabilitation Science Research Funding**



## 16.2 Research Projects Awarded

In 2022/2023 Department of School of Rehabilitation Science faculty were granted **17** awards, received by **8** individual award recipients.

**Figure 16.2: School of Rehabilitation Science Research Projects Awarded**



### 16.3 Publications & Citations

The School of Rehabilitation Science produced **44** publications in 2022.

**Figure 16.3: School of Rehabilitation Science Annual Publication Count**

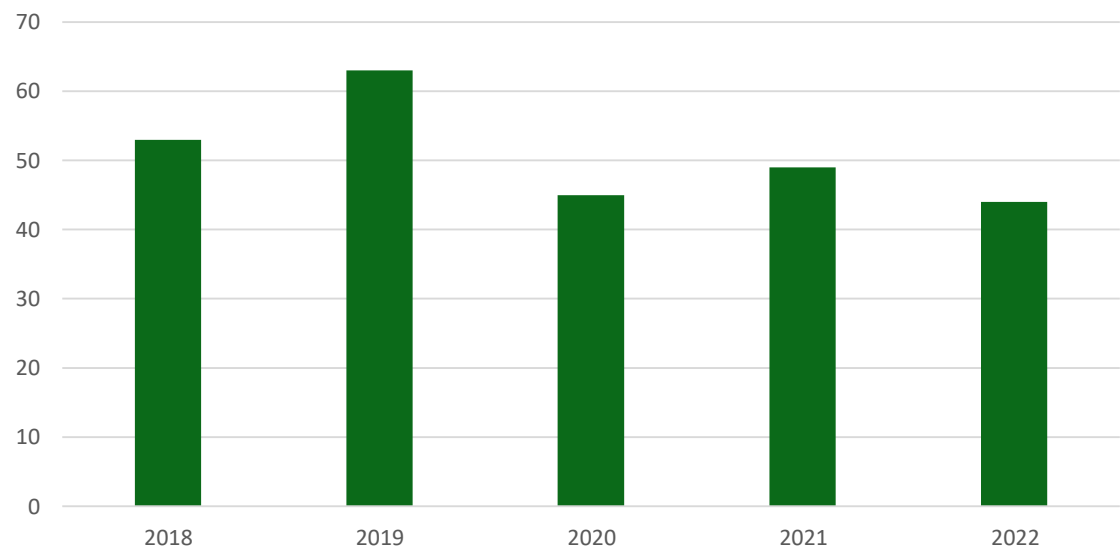
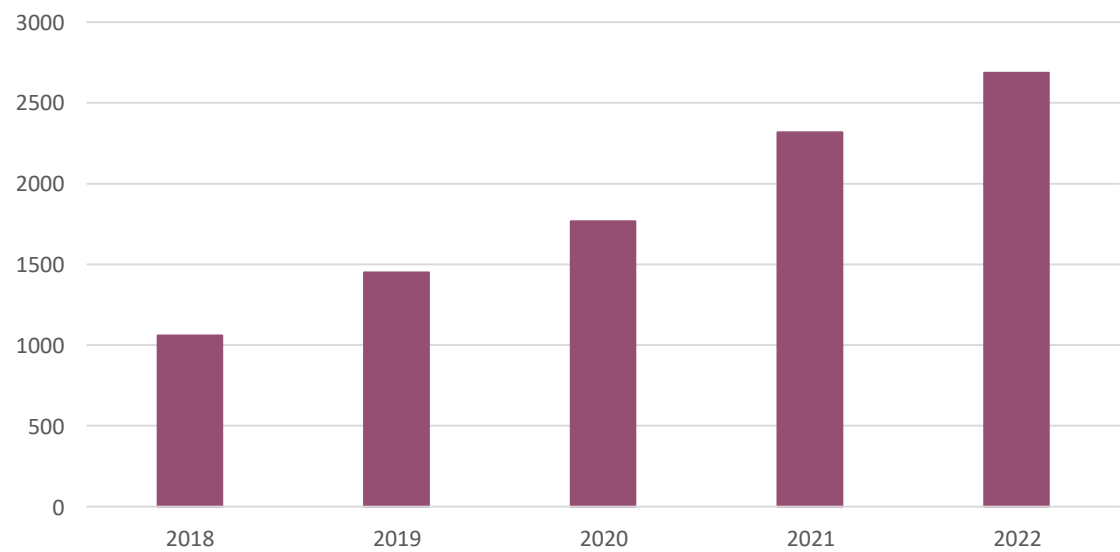


Figure 16.4 shows citation counts for School of Rehabilitation Science faculty. School publications were cited **2,687** times in 2022.

**Figure 16.4: School of Rehabilitation Science Annual Citation Count**



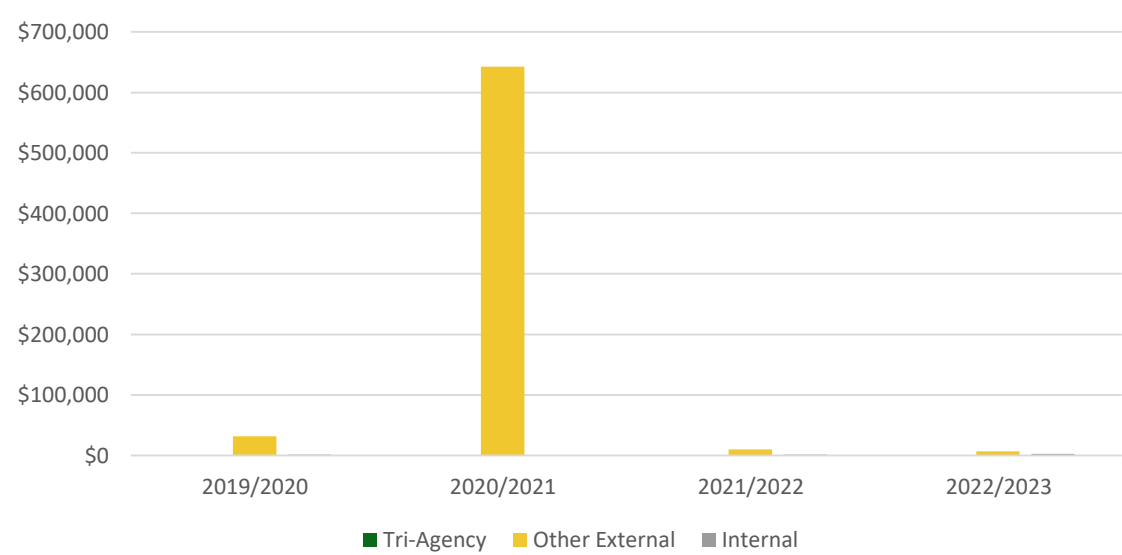
This report included **14** research-active faculty from the School of Rehabilitation Science.

# 17. Department of Physical Medicine and Rehabilitation

## 17.1 Research Funding

In the 2022/2023 fiscal year, Department of Physical Medicine and Rehabilitation researchers were awarded a total of **\$9,377**.

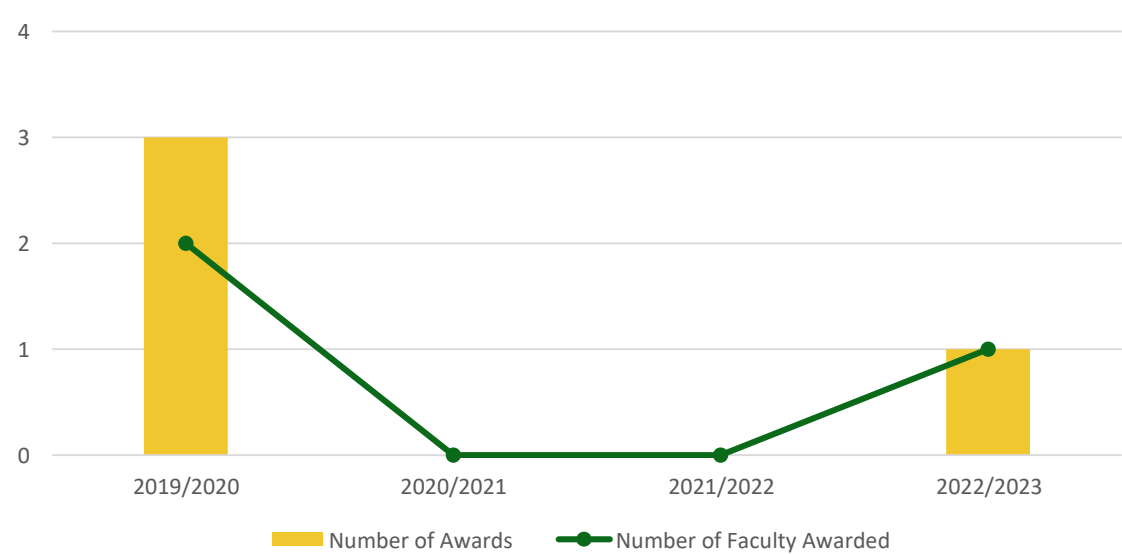
**Figure 17.1: Department of Physical Medicine and Rehabilitation Research Funding**



## 17.2 Research Projects Awarded

In 2022/2023 Department of Physical Medicine and Rehabilitation faculty were granted **1** award, received by **1** awardee.

**Figure 17.2: Department of Physical Medicine and Rehabilitation Research Projects Awarded**



### 17.3 Publications & Citations

Faculty within the department produced 7 publications in 2022.

**Figure 17.3: Department of Physical Medicine and Rehabilitation Annual Publication Count**

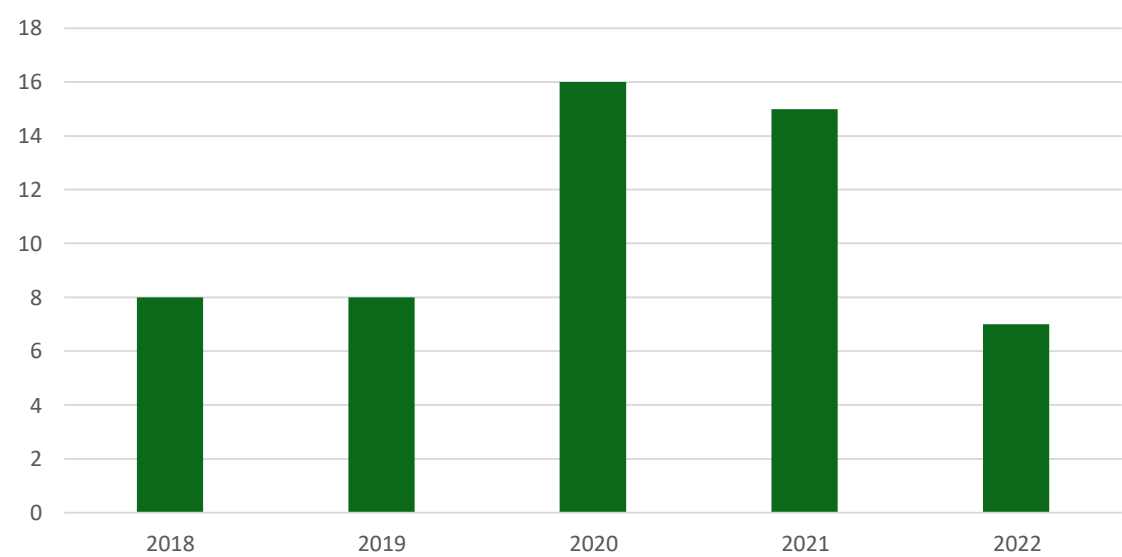
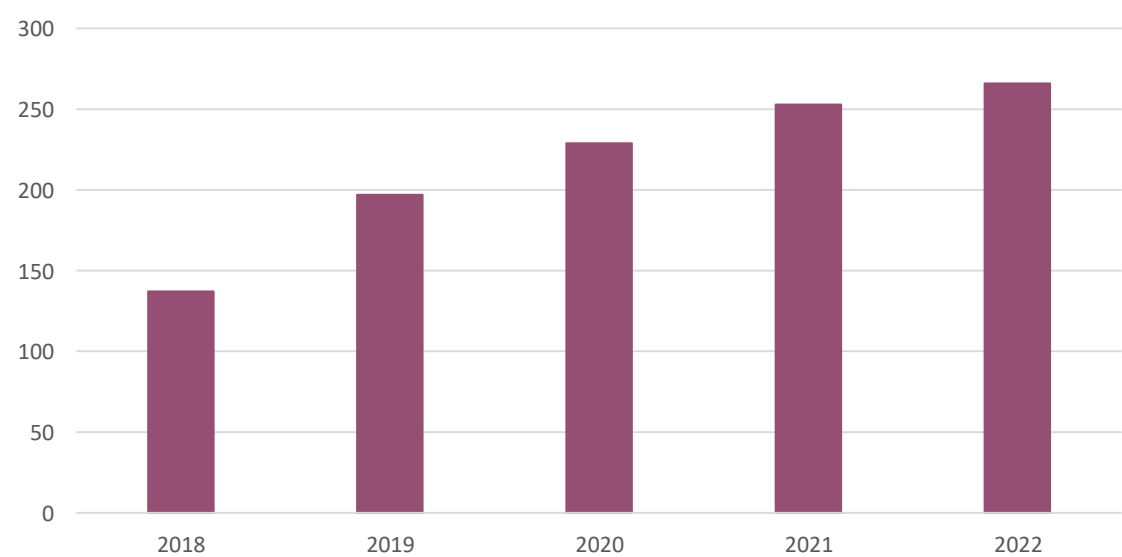


Figure 17.4 shows citation counts for Department of Physical Medicine and Rehabilitation faculty. Departmental publications were cited 266 times in 2022.

**Figure 17.4: Department of Physical Medicine and Rehabilitation Annual Citation Count**



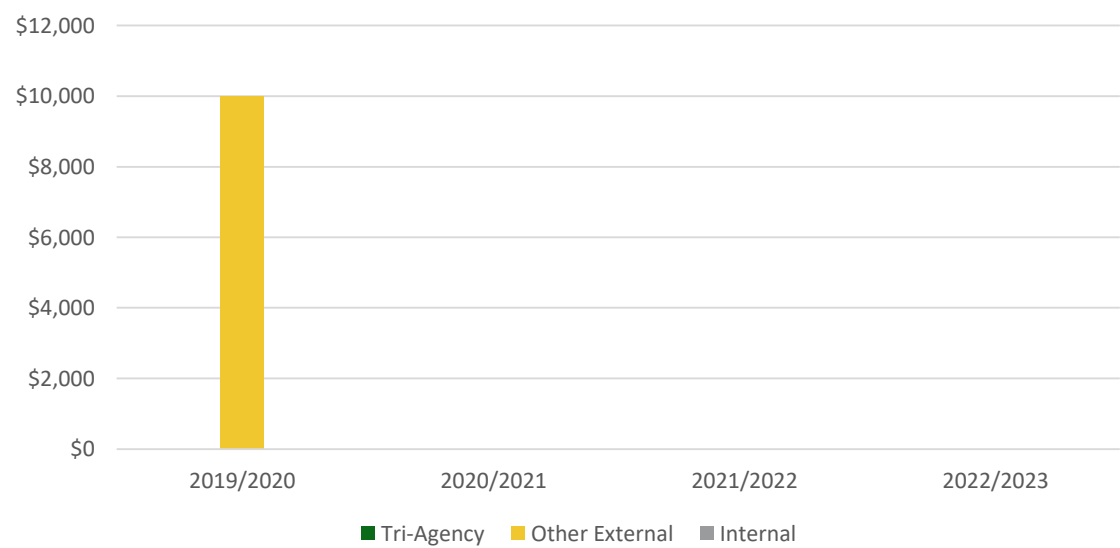
This report included 6 research-active faculty from the Department of Physical Medicine and Rehabilitation.

# 18. Department of Ophthalmology

## 18.1 Research Funding

In the 2022/2023 fiscal year, Department of Ophthalmology researchers were awarded \$0.

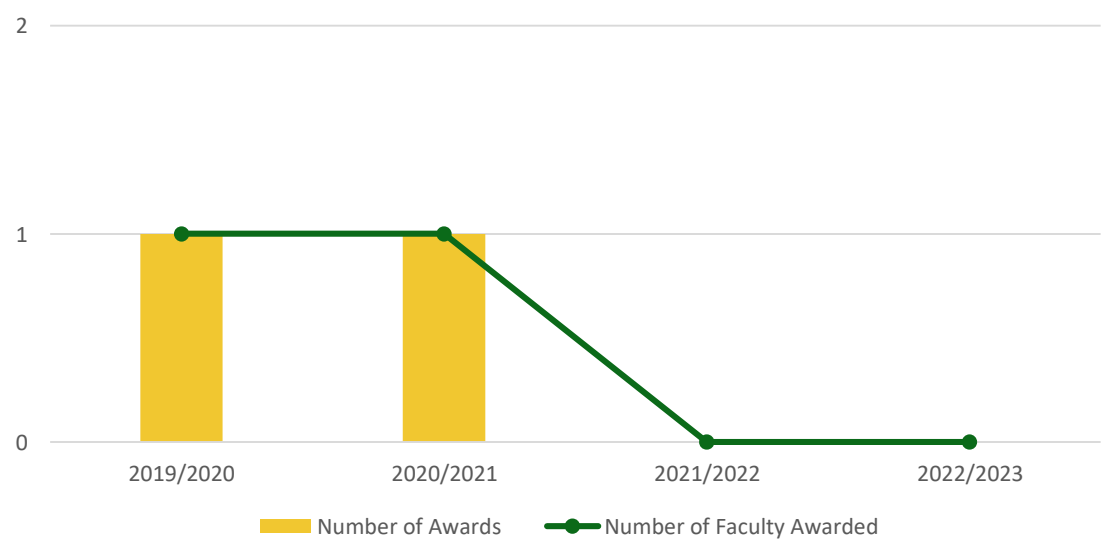
Figure 18.1: Department of Ophthalmology Research Funding



## 18.2 Research Projects Awarded

In 2022/2023 Department of Ophthalmology faculty received 0 awards.

Figure 18.2: Department of Ophthalmology Research Projects Awarded

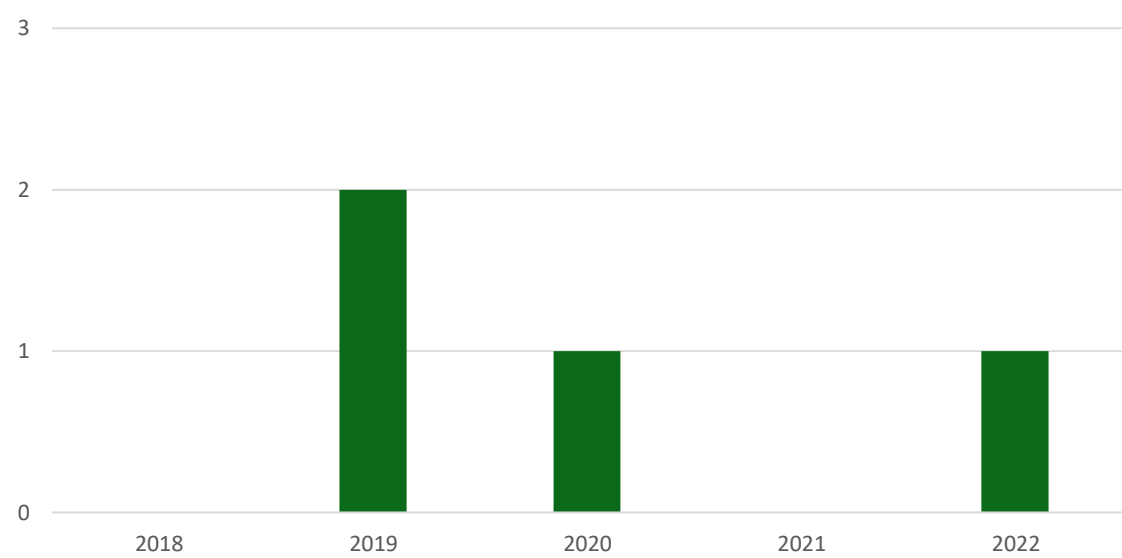




### 18.3 Publications & Citations

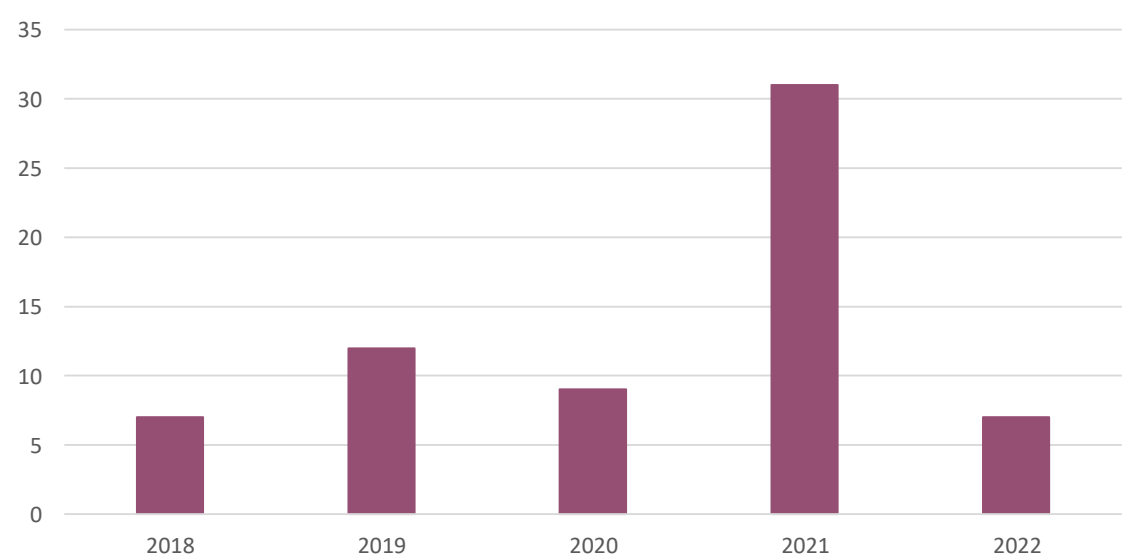
Faculty within the department produced 1 publication in 2022.

**Figure 18.3: Department of Ophthalmology Annual Publication Count**

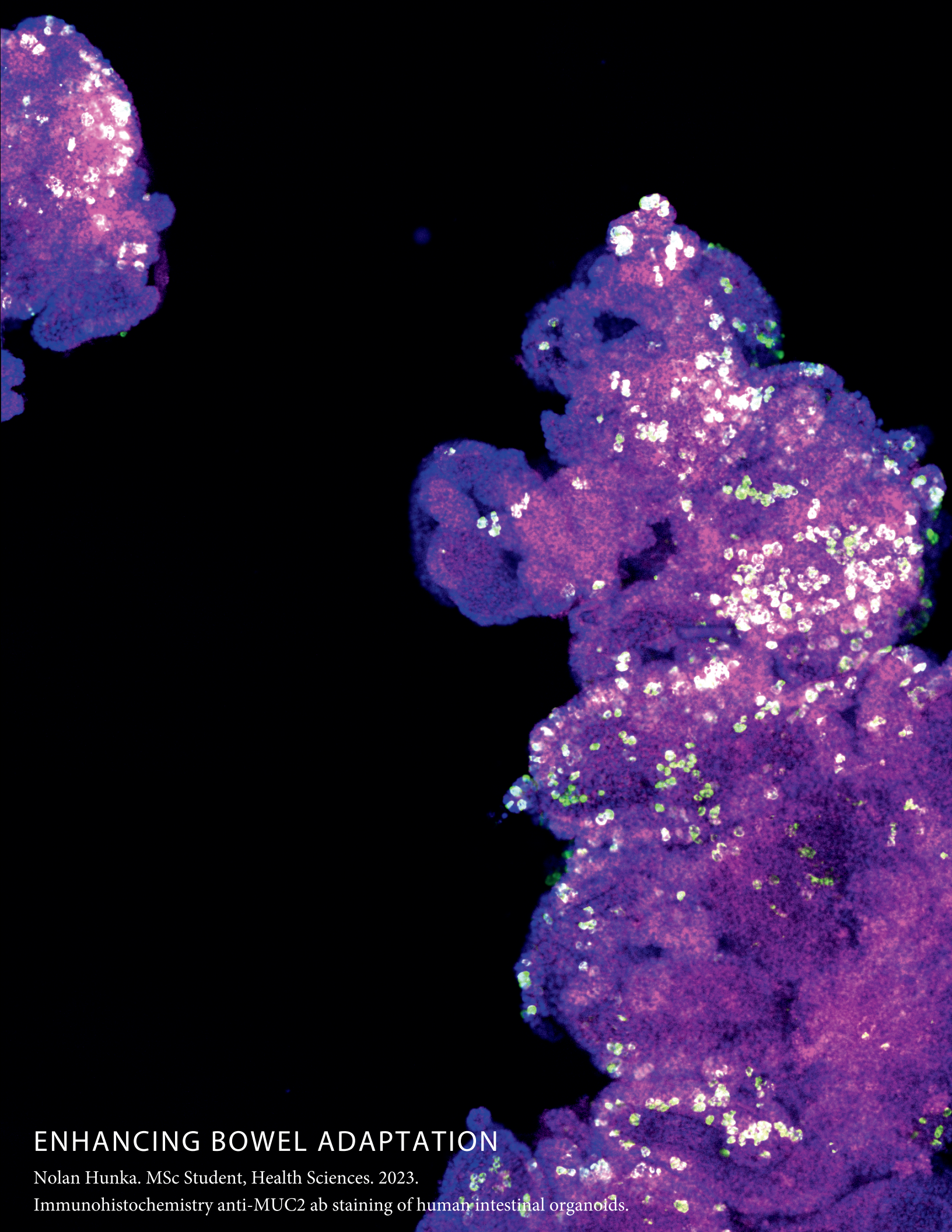


Department of Ophthalmology publications were cited 7 times in 2022.

**Figure 18.4: Department of Ophthalmology Annual Citation Count**



This report included 3 research-active faculty from the Department of Ophthalmology.



# ENHANCING BOWEL ADAPTATION

Nolan Hunka. MSc Student, Health Sciences. 2023.  
Immunohistochemistry anti-MUC2 ab staining of human intestinal organoids.