

# Research output of Morningside Graduate School of Biomedical Sciences faculty: A visual review

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## Fast Facts

For 2020-2022 publications from current Morningside Graduate School of Biomedical Sciences Faculty

Number of publications: 3380 (1122 in 2020, 1157 in 2021, 1101 in 2022)

Average Field-Weighted Citation Impact (FWCI): 2.06

Publications in the top 10% journals by CiteScore Percentile: 1,553 (47.9%)

Patent citations: 53 patents cite 12 papers published in 2020

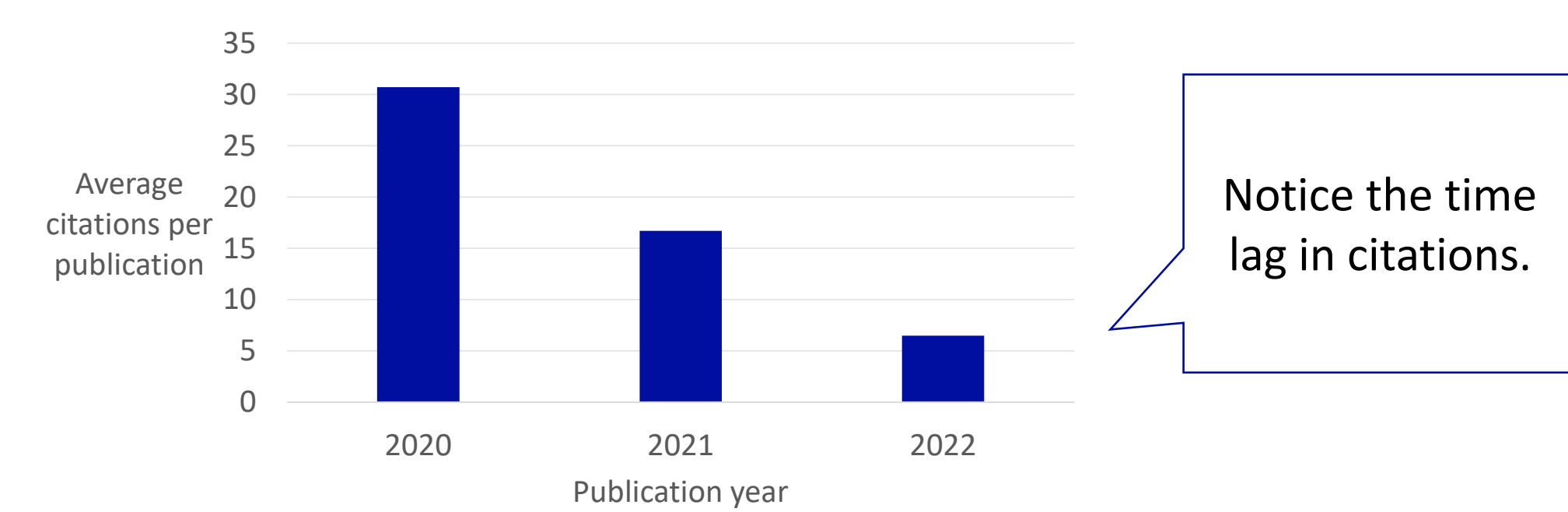


Figure 1. Citations per publication for current Morningside Graduate School of Biomedical Sciences Faculty 2020-2022 publications. Average = 18 citations/publication.

Table 1. Top 3 most cited publications.

Publication	UMass Chan Author(s)	Citations	Field-Weighted Citation Impact
Remdesivir for the Treatment of Covid-19 - Final Report. Beigel JH et al. N Engl J Med. 2020.	Finberg RW	4,621	390.18
SARS-CoV-2 Receptor ACE2 Is an Interferon-Stimulated Gene in Human Airway Epithelial Cells and Is Detected in Specific Cell Subsets across Tissues. Ziegler CGK et al. Cell. 2020.	Cao Y, Guo Z, Wang JP, Finberg RW, Garber M	1,555	70.25
Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). Klionsky DJ et al. Autophagy. 2021.	Baehrecke EH, Bergmann A, Davis RJ, Haynes CM, Irazoqui JE	1,058	53.79

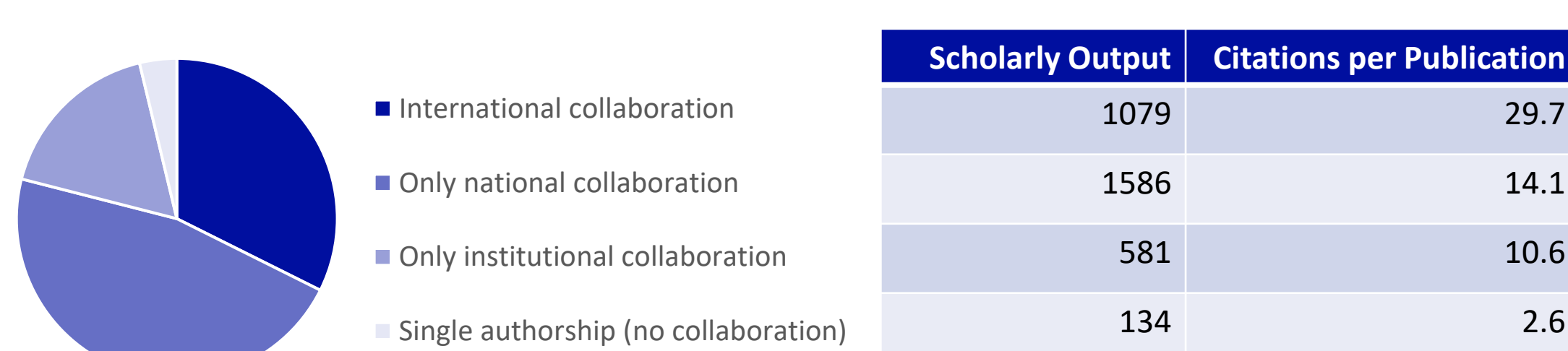
Table 2. Top 3 publications by Field-Weighted Citation Impact.

Publication	UMass Chan Author(s)	Citations	Field-Weighted Citation Impact
Remdesivir for the Treatment of Covid-19 - Final Report. Beigel JH et al. N Engl J Med. 2020.	Finberg RW	4,621	390.18
The complete sequence of a human genome. Nurk S et al. Science. 2022.	Rogaev EI	561	127.18
Screening for Lung Cancer: US Preventive Services Task Force Recommendation Statement. US Preventive Services Task Force et al. JAMA. 2021.	Pbert L	549	103.1

Table 3. Top 5 journals published in by current Morningside Graduate School of Biomedical Sciences Faculty 2020-2022.

Journal	Number of articles
Nature Communications	93
eLife	51
JAMA - Journal of the American Medical Association	45
Cell Reports	44
Proceedings of the National Academy of Sciences of the United States of America	43

Table 4. International, national, and institutional collaboration extracted from the 2020-2022 publications of current Morningside Graduate School of Biomedical Sciences Faculty.



Citations increase with broader geographic collaboration.

**Field-Weighted Citation Impact (FWCI)** in SciVal compares the number of citations received with the average number of citations received by all other similar publications. A FWCI of 1.00 means receiving the expected number of citations. A FWCI of more than 1.00 indicates above the global average for similar publications; for example, 2.06 means 106% more than the world average.

**CiteScore** is a measure of average citations received per peer-reviewed article in a journal, analogous to Impact Factor. CiteScore Percentile is the relative standing of the journal in its field.

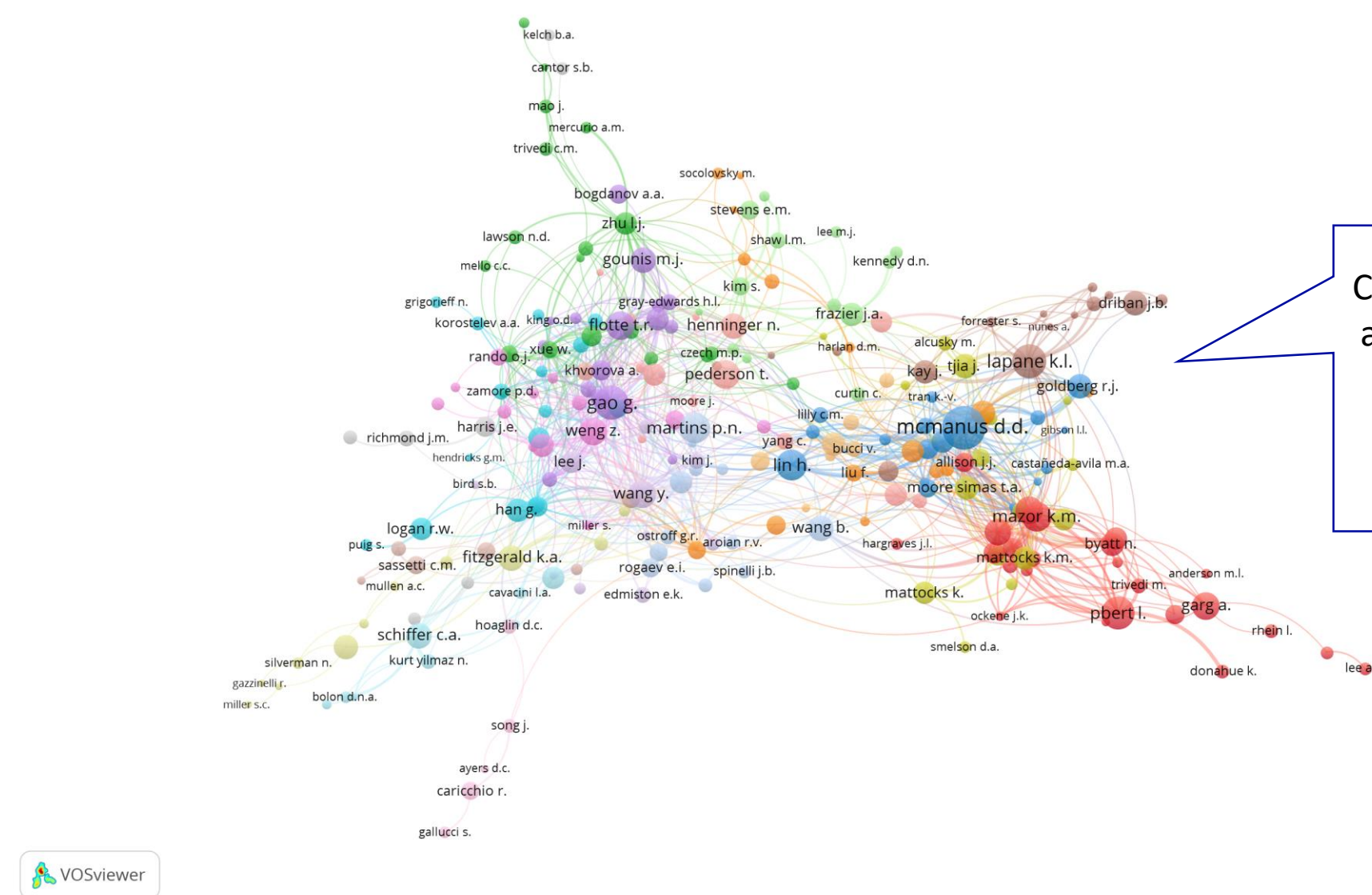


Figure 2. Co-authorship network for the current Morningside Graduate School of Biomedical Sciences Faculty based on 2020-2022 publications with 2 or more affiliated authors.

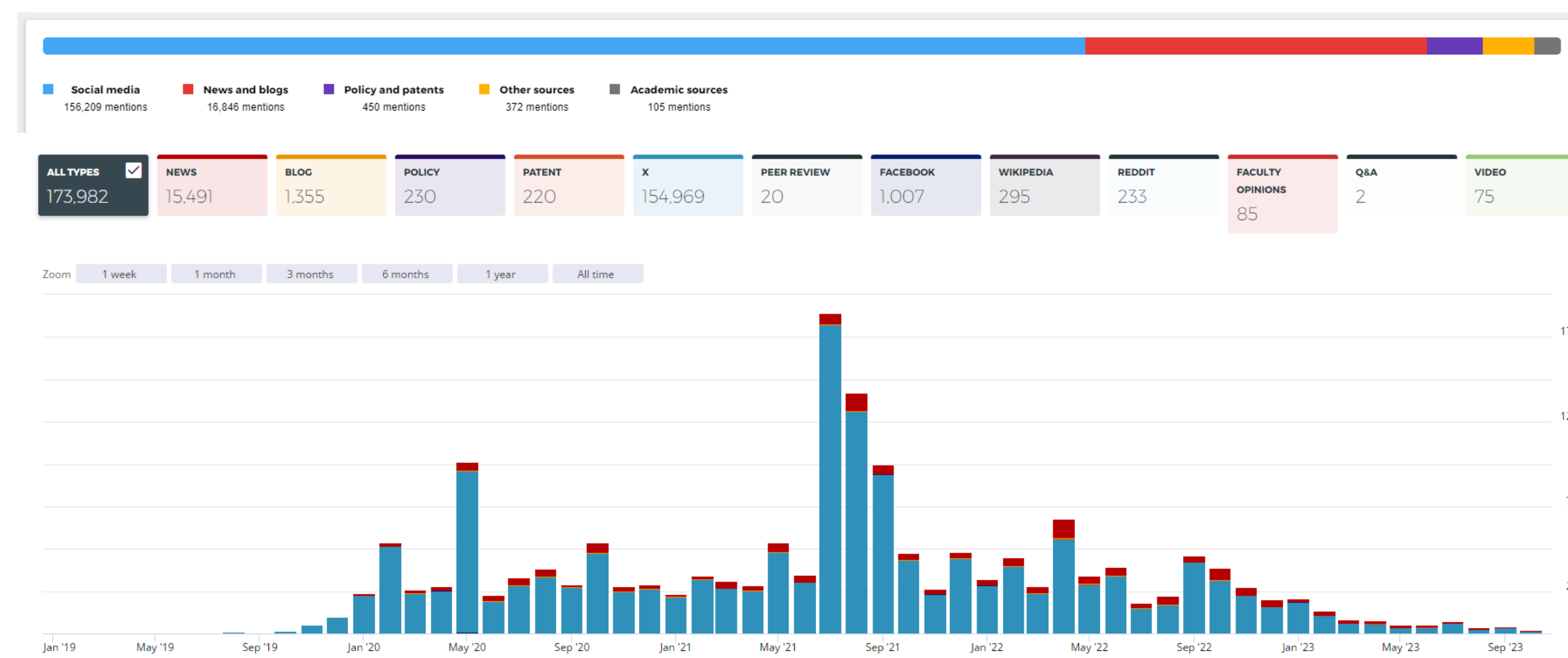


Figure 3. Altmetric attention breakdown and timeline for current Morningside Graduate School of Biomedical Sciences Faculty 2020-2022 publications.

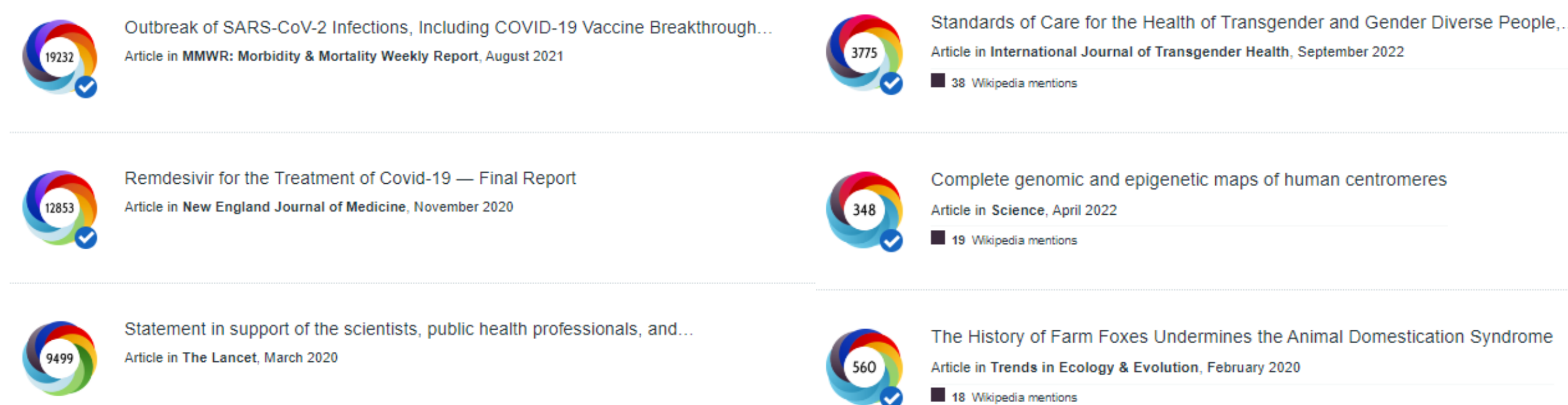


Figure 4. Top 3 publications for current Morningside Graduate School of Biomedical Sciences Faculty 2020-2022 publications by Altmetric score and Wikipedia mentions.

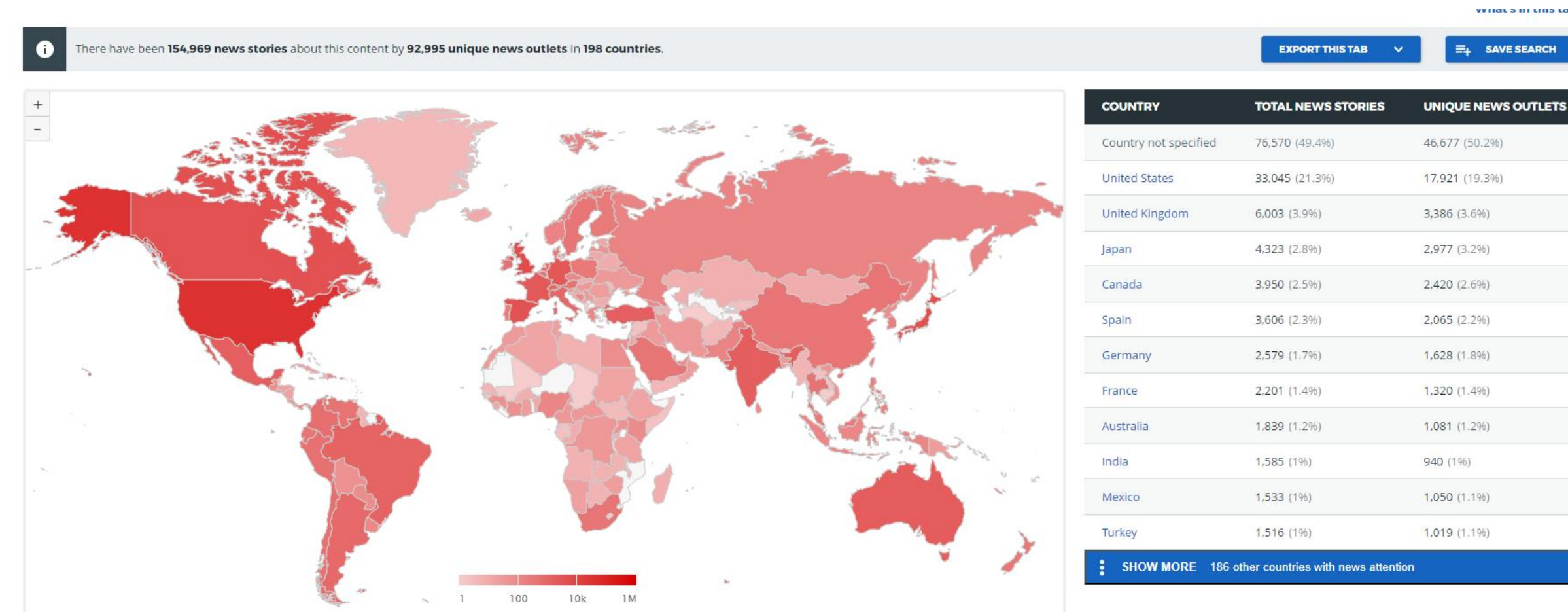


Figure 5. News attention from around the world for current Morningside Graduate School of Biomedical Sciences Faculty 2020-2022 publications.

Table 5. Top 3 Scopus research areas for 2020-2022 publications from current Morningside Graduate School of Biomedical Sciences faculty.

Research area	Number of articles	Field-Weighted Citation Impact	Worldwide prominence percentile
Adeno Associated Virus; Capsid; Genetic Therapy	51	2.08	99.058
Nasopharyngeal Swabs; Serologic Tests; COVID-19	43	4.93	100.00
Genome; CRISPR Associated Endonuclease Cas9; Gene Editing	32	3.87	99.947

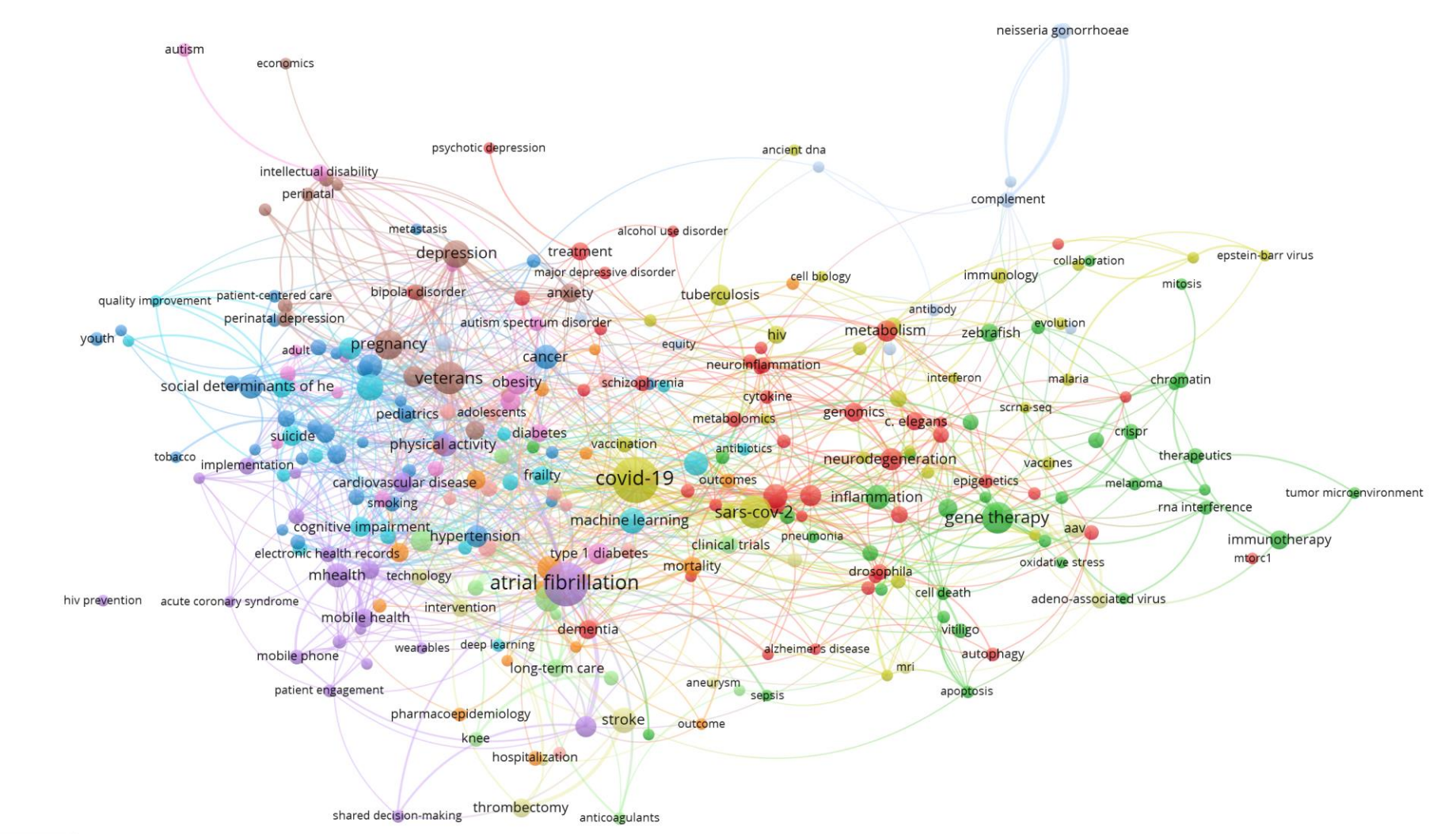


Figure 6. Author keyword network diagram for current Graduate School of Biomedical Sciences Faculty based on 2020-2022 publications.

## Morningside Graduate School of Biomedical Sciences Dissertations and Theses

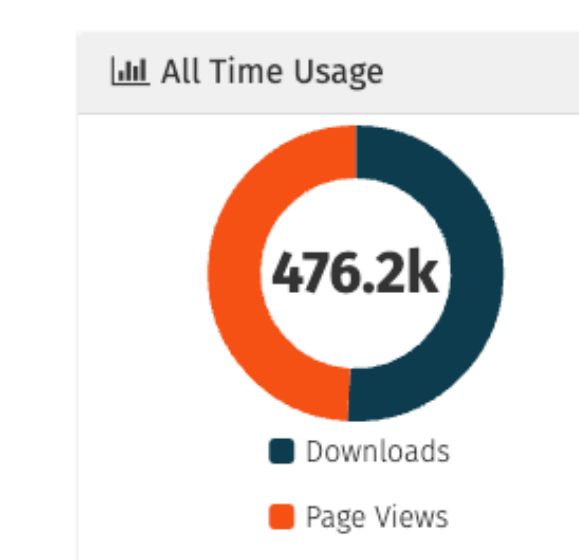


Figure 7. Downloads and page views for the Morningside Graduate School of Biomedical Sciences Dissertations and Theses collection in eScholarship@UMassChan.

1000s of downloads and pageviews each month from over 200 countries.

## Methods

Scopus<sup>\*</sup> SciVal Altmetric VOSviewer

- Collected Scopus IDs of current Morningside Graduate School of Biomedical Sciences faculty listed on the School's website, <https://www.umassmed.edu/gsbbs/faculty--research/faculty/>
- Used Scopus author search to create publications list of published works from 2020-2022 by current Morningside Graduate School of Biomedical Sciences faculty. If an author had multiple Scopus IDs, both IDs were used. The Scopus search was run on September 21, 2023.
- Scopus IDs were imported into SciVal and metrics were gathered from the 2020 to 2022 report. The SciVal report was run on October 20, 2023.
- DOIs from the Scopus publications list were searched in Altmetric Explorer for Institutions (3420 publications from the list had a DOI, 3290 of those publications are tracked by Altmetric, and 2766 publications had attention). Altmetric Explorer Search was run on October 12, 2023.
- Publications list was imported into VosViewer to create co-authorship and keyword diagrams. Only affiliated faculty members were selected for the co-authorship visual.
- Metrics on the Morningside Graduate School of Biomedical Sciences Thesis Collection were gathered from eScholarship@UMassChan on October 20, 2023.