

Jackson Weir

Broad Institute of MIT & Harvard
75 Ames St, Cambridge MA 02142
jackson_weir@g.harvard.edu | <https://www.jacksonweir.com/>

EDUCATION

2021-present Ph.D. Biological and Biomedical Sciences, Harvard Medical School (4.0/4.0 GPA)
2018-2021 B.Sc. Cell and Molecular Biology, University of New Brunswick (4.3/4.3 GPA)

PUBLICATIONS

Russell, A. J. C.*, **Weir, J. A.***, Nadaf, N. M.*, Shabet, M., Kuma, V., Kambhampati, S., Raichur, R., Marrero, G. J., Liu, S., Balderrama, K. S., Vanderburg, C. R., Shanmugam, V., Tian, L., Wu, C. J., Yoon, C. H., Macosko, E. Z.[#], Chen, F.[#] Slide-tags: scalable, single-nucleus barcoding for multi-modal spatial genomics. *Biorxiv*, 2023. (*Co-first author)
Alfarra, H., **Weir, J. A.**, Grieve, S., Reiman, T. Targeting NK Cell Inhibitory Receptors for Precision Multiple Myeloma Immunotherapy. *Frontiers in Immunology*, 2020.
Grieve, S, Wajnberg, G, Lees, M, Chacko, S, **Weir, J. A.**, Crapoulet N, Reiman T. TAZ functions as a tumor suppressor in multiple myeloma by downregulating MYC. *Blood Advances*, 2019.

PRESENTATIONS

TALKS

2023 Single Cell Genomics Day 2023, New York Genome Center, Virtual (invited)
2023 Spatial Interest Group Seminar, Broad Institute of MIT and Harvard, Cambridge USA (invited)
2021 Evolutionary Genetics Guest Lecture, University of New Brunswick, Fredericton, Canada (invited)
2020 London International Youth Science Forum, London, UK (invited; cancelled due to COVID)
2019 IMPART Annual Meeting, Saint John, Canada (selected)

POSTERS

2019 New Brunswick Health Research Conference, Fredericton, Canada (selected)
2018 Prime Minister's Science Fair, Ottawa, Canada (invited)
2018 Canada-Wide Science Fair, Ottawa, Canada (invited)

HONOURS AND AWARDS

FELLOWSHIPS

2021 Frederick Banting and Charles Best Canada Graduate Scholarship – Master's (CGS M), Canadian Institute of Health Research (CIHR) (\$17,500) (Declined)
2021 McCall MacBain Scholarship Finalist Award, McGill University (\$10,000) (Declined)
2020 Summer Studentship Award, New Brunswick Health Research Foundation (\$6900 for 16 weeks)
2019 Jeremy Ingham Cancer Research Studentship Award, Beatrice Hunter Cancer Research Institute (\$5000 for 14 weeks) [Top applicant in Atlantic Canada]

SCHOLARSHIPS

2019 Ingenium-NSERC STEAM Horizon Award (\$25,000) [1 of 5 winners nationally]
2018–2021 President's Scholarship, University of New Brunswick (\$8000 per year)
2018 Canada-Wide Science Fair Scholarship, University of New Brunswick (\$2000)
2018 Greg Cherry Memorial Scholarship (\$2000)
2018 Sisters of Charity Class Leader Bursaries (\$1000)

ACADEMIC AND RESEARCH

2023 Young Alumni Achievement Award, University of New Brunswick
2021 Lieutenant-Governor's Silver Medal in Science, University of New Brunswick
2020 Sir Howard Douglas Society Scholar, University of New Brunswick

2019	First Place Poster Presentation, New Brunswick Health Research Conference
2018	Prime Minister's Science Fair Invitee, Natural Sciences and Engineering Research Council of Canada (NSERC) [1 of 35 invited nationally]
2018	Gold Medal, Canada-Wide Science Fair [Offered \$28,000 in scholarships]
2018	AP Research Perfect Score, College Board [1 of 111 students worldwide]
2018	National AP Scholar (Canada) Award, College Board
2018	AP Scholar with Distinction Award, College Board
2018	Governor General's Academic Medal and Valedictorian, St. Malachy's Memorial High School

RESEARCH EXPERIENCE

2022-present	Ph.D. Student, Chen Lab, Broad Institute [Spatial microenvironment and evolution in tumours]
2022	Ph.D. Rotation Student, Chen Lab, Broad Institute [Spatial technology development]
2022	Ph.D. Rotation Student, Naxerova Lab, Mass General Hospital [Tumor evolution and metastasis]
2021	Ph.D. Rotation Student, Hahn Lab, Dana Farber Cancer Institute [CRISPR screens and drug action]
2020–2021	Honours Thesis, University of New Brunswick [Novel immunotherapy targets in myeloma]
2020	Summer Studentship, University of New Brunswick [NK cell inhibitory receptors in myeloma]
2019	Summer Studentship, University of New Brunswick [Role of Hippo pathway in multiple myeloma]

COMMUNITY INVOLVEMENT

SCIENCE COMMUNICATION

2022	Science Writer, Science in the News – Harvard University
2019-2022	Ambassador, Canada-Wide Science Fair
2020-2021	Editor-in-Chief, Atlantic Student Research Journal
2019–2020	Founding Speakers Director, Reaching Higher Conference
2019	Editor, Canadian Science Fair Journal
2018–2019	Science Communicator, Science East

OUTREACH AND EDUCATION

2022-2023	Academic Advisor, Board of First Year Advisors, Harvard University
2021	Workshop Speaker, ASRJ Reaching Higher Conference
2021	Student Panelist, University of New Brunswick Science Recruitment
2020	Co-Chair, TEDxUNB, Fredericton NB
2019–2020	Educational Proctor, University of New Brunswick Residence Life
2020	Peer Mentor, University of New Brunswick Science Student Leadership Program
2020	Re-Action Education Volunteer, Makesense
2018	Education Think Tank Student Panelist, New Brunswick Education Department

MEDIA COVERAGE

2022	Harvard Dreams Come True for UNB Grad, UNB Donor Impact Report
2022	Using Science to Improve the World with Jackson Weir, Youth Science Canada
2021	UNBers named McCall MacBain Scholarship finalists, UNB Newsroom
2019	Three CWSF Alumni Announced as STEAM Horizon Award Recipients, Youth Science Canada
2019	UNB Welcomes the Canada-Wide Science Fair, UNB Newsroom
2019	Third in a Series Celebrating the 10th Anniversary of the Beatrice Hunter Cancer Research Institute, BHCRI
2018	UNB Student Presents at the Prime Minister's Science Fair, UNB Newsroom
2018	SHAD Students Seek to Help with Natural Disasters, CBC Radio
2018	St. Mac's Student Strikes Gold at National Event, Telegraph Journal