

Jackson Weir

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

Alfarra H, **Weir J**, Grieve S, Reiman T. 2020. Targeting NK Cell Inhibitory Receptors for Precision Multiple Myeloma Immunotherapy. *Frontiers in Immunology*.
Grieve S, Wajnberg G, Lees M, Chacko S, **Weir J**, Crapoulet N, Reiman T. 2019. TAZ functions as a tumor suppressor in multiple myeloma by downregulating MYC. *Blood Advances* 3(22):3613–3625.

PRESENTATIONS

INVITED

2023 Russell A*, **Weir J***. Slide-tags: scalable single-nucleus barcoding for multi-modal spatial genomics. *Spatial Interest Group Seminar*. Broad Institute of MIT and Harvard. (Oral). *Joint presentation
2021 **Weir J**. Overcoming cancer heterogeneity with targeted immunotherapies. *University of New Brunswick Dept. of Biology*. (Oral). [Guest lecture in second year genetics course]

ORAL

2021 **Weir J**. Identifying novel immunotherapy targets for multiple myeloma. *University of New Brunswick Dept. of Biology*. (Oral).
2020 **Weir J**. TAZ regulates immune markers in multiple myeloma. *London International Youth Science Forum*. [Cancelled due to COVID].
2019 **Weir J**, Grieve S, Reiman T. TAZ's regulation of immune markers in myeloma: potential for immuno-combination therapy. *IMPART Annual Meeting*. Saint John, New Brunswick.

POSTER

2019 **Weir J**, Grieve S, Reiman T. TAZ regulates immune markers in multiple myeloma. *New Brunswick Health Research Conference*. Fredericton, New Brunswick. (Competitive)
2018 **Weir J**. Experimental Analysis of Environmental Factors: Surface Spread of Oil on Water. *Prime Minister's Science Fair*. Ottawa, Ontario. (Invited)
2018 **Weir J**. Experimental Analysis of Environmental Factors: Surface Spread of Oil on Water. *Canada-Wide Science Fair*. Ottawa, Ontario. (Invited)

RESEARCH EXPERIENCE

2022-present Ph.D. Student, Chen Lab, Broad Institute. [Tumor evolution and microenvironment interactions]
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. [PP2A tumor suppressor]
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 TAZ in multiple myeloma]

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

2019–2020 Ingenium-NSERC STEAM Horizon Award (\$25,000) [Academic excellence and community impact; 1 of 5 winners across Canada]

2018–2021	President’s Scholarship, University of New Brunswick (\$8000 per year) [Academic excellence]
2018–2019	Canada-Wide Science Fair Scholarship, University of New Brunswick (\$2000) [Research excellence]
2018–2019	Greg Cherry Memorial Scholarship (\$2000) [Academic excellence]
2018	Sisters of Charity Class Leader Bursaries (\$1000) [Academic excellence]

ACADEMIC AND RESEARCH

2023	Young Alumni Achievement Award, University of New Brunswick [Alumni distinction award for significant contributions in one’s field]
2021	Lieutenant-Governor’s Silver Medal in Science, University of New Brunswick [Most outstanding graduating student in Faculty of Science]
2020	Sir Howard Douglas Society Scholar, University of New Brunswick [Academic excellence and extracurricular impact; 1 of 9]
2019	1 st Place Poster Presentation in the Undergraduate, Medical and Master’s Student Category, New Brunswick Health Research Conference
2018	Prime Minister’s Science Fair Invitee, Natural Sciences and Engineering Research Council of Canada (NSERC) [1 of 35 selected 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	Governor General’s Academic Medal and Valedictorian, St. Malachy’s Memorial High School

COMMUNITY INVOLVEMENT

SCIENCE COMMUNICATION

2022	Science Writer, <i>Science in the News – Harvard University</i> [Science communication publication]
2019–2022	Ambassador, <i>Canada Wide Science Fair</i> [Organizer of Canadian national science fair]
2020–2021	Editor-in-Chief, <i>Atlantic Student Research Journal</i> [Science communication journal]
2019–2020	Founding Speakers Director, <i>Reaching Higher Conference</i> [Undergraduate research conference]
2019	Editor, <i>Canadian Science Fair Journal</i> [Science communication journal]
2018–2019	Science Communicator, <i>Science East</i> [Local science center]

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
2019–2020	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 [Confronting educational barriers from COVID-19]
2018	Education Think Tank Student Panelist, New Brunswick Education Department

MEDIA COVERAGE

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