



Stephanie Xie (Canada)

Position: Allan Slaight Scientist, 0-3 years

Organization: Princess Margaret Cancer Centre/University of Toronto

Lab: <https://medbio.utoronto.ca/faculty/xie>

Email: stephanie.xie@uhn.ca

Research Area(s) of Focus: Cytokines and growth factors, hematopoiesis, innate immune cells, microenvironment, stem cells and progenitors

Available Position(s):

Postdoctoral fellow

Union: Non-Union

Number of Vacancies: 2

Site: Princess Margaret Cancer Research Tower

Department: Research

Reports to: Dr. Stephanie Xie, Principal Investigator and/or Dr. Steven Chan, Principal Investigator

Work Model: On-Site

Hours: 37.5 hours per week

Shifts: Monday - Friday

Status: Temporary Full-time (1 year Contract)

Closing Date: April 30, 2026

Position Summary

We are seeking two exceptional Postdoctoral Researchers to join our team investigating GLP1-1 receptor agonists as a preventive strategy for clonal hematopoiesis-driven hematological cancers.

The Xie and Chan Laboratories are located at the Princess Margaret Cancer Centre in Toronto, Canada with full access to state-of-the-art facilities in Toronto's Discovery District. The labs employ advanced humanized and syngeneic animal models, CRISPR/Cas9 genome editing tools, functional assays, and single cell technologies to identify and investigate specific gene dependencies that drive clonal hematopoiesis.

Duties

- **Design and Conduct Experiments:** Develop and execute experimental protocols to investigate the biology of hematopoietic stem cells and mechanisms of clonal hematopoiesis with GLP-1 receptor agonism, using advanced molecular and cellular techniques
- **Data Analysis and Interpretation:** Perform comprehensive data analysis, including bioinformatics and statistical analysis, to interpret experimental results and draw meaningful conclusions.
- **Stem Cell Isolation and Characterization:** Isolate and characterize hematopoietic stem cells from human donor samples or animal models, utilizing techniques such as flow cytometry, cell sorting, and other stem cell assays.
- **Collaboration and Teamwork:** Work closely with other researchers, including graduate students and other post-doctoral fellows, to support ongoing projects and foster a collaborative research environment.
- **Literature Review and Research Development:** Stay updated on recent literature and advancements in clonal hematopoiesis research, identify new research opportunities, and propose novel hypotheses to explore within the lab's focus area.
- **Manuscript and Grant Writing:** Prepare research findings for publication in peer-reviewed journals and contribute to writing grant applications to secure additional funding for research projects.
- **Mentorship and Training:** Mentor junior researchers, including graduate and undergraduate students, by providing guidance on experimental design, lab techniques, and data analysis.
- **Presentation of Findings:** Present research findings at lab meetings, seminars, and national or international conferences to share progress and gain feedback from the scientific community.

Qualifications

- PhD must be obtained within the previous 5 years in immunology, genetics, molecular biology, biochemistry, or related field.
- Strong background in stem cell and/or cancer biology, particularly hematological malignancies.
- Experience in working with syngeneic or humanized mouse models, flow cytometry, and tissue culture is an asset.
- Expertise in molecular biology and genome editing techniques.
- Excellent analytical and problem-solving skills.
- Proven track record of scientific publications.