

BIOC 462/491 Internship Position in Industry

Winter 2024

Restrictions

Open only to Honours Students enrolled in BIOC 462/491 during the winter 2024 semester

Company:

REPAIR

THERAPEUTICS

Repare Therapeutics,

7171, Rue Frederick Banting, Building 2

Ville Saint-Laurent, QC H4S 2A1

<https://www.reparerx.com/>

Project Title: Development of pharmacodynamic biomarker assays for cancer therapy

Project Description: The student will be joining the Cancer Biology team at Repare Therapeutics actively contributing to our pharmacodynamic biomarker development program. The student will investigate biomarker candidates in rat peripheral blood mononucleated cells (PBMCs) as well as other relevant preclinical samples, with the goal of evaluating the utility of selected biomarkers for further development of pre-clinical and clinical assays, and to unravel the mechanism of action of our drug candidate(s). To accomplish this, the student will learn to utilize advanced cell-based techniques, including high-content immunofluorescence imaging and flow cytometry, and will participate in optimizing the workflow for evaluating biomarker expression. In this way, the student will become familiar with approaches to understand how a drug candidate is acting within the biological systems and tumours, and will have the opportunity to participate in research informing early phase clinical trials.

In summary, this research project presents a unique opportunity for the student to make meaningful contributions to the development of cutting-edge cancer therapies while gaining hands-on experience with fluorescence-based techniques that are crucial in current drug development landscape.

Contact Information

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