

Name of Employer: Jewish General Hospital

Title: Postdoctoral fellow

Location: Proteomics Centre of the Lady Davis Institute – Jewish General Hospital
3755 Chemin de la Côte-Sainte-Catherine, Montreal, QC H3T 1E2

Status: Contractual, full-time, day.

Job Start Date: As soon as possible.

Job Description:

The proteomics center of the Lady Davis Institute is looking for a motivated and talented post-doctoral fellow to study “Innovative cleavable linker strategy for mass spectrometry-based elucidation of drug binding sites” as part of a FQRNT funded collaboration between the Verhelst lab in Leuven/Belgium and the JGH Proteomics Centre in Montreal. We will use newly developed chemical cross-linkers to covalently bind drugs to their targets and off-targets. After enrichment, those on/off targets and their respective binding sites will be identified with modern mass spectrometry methods.

Job Roles:

The post-doctoral fellow will optimize the MS conditions for the identification of drug targets and their binding sites, and will conduct quantitative (phospho)proteomics studies using cancer drugs currently used in the clinic and analyze the data.

Duration:

The position is available for 3 years and will be supervised by Dr. Christoph Borchers and Dr. René Zahedi.

Company Profile:

The Jewish General Hospital Proteomics Centre encompasses the Segal Cancer Proteomics Centre (SCPC) and the Warren Y. Soper Program in Translational Proteomics. The SCPC provides advanced proteomics services to the research community at the hospital as well as to other academic, pharmaceutical and biotechnology groups. The SCPC works together with the Translational Proteomics unit located at the JGH Clinical Chemistry Laboratory to transfer proteomic discoveries to practical applications in the clinic.

The services provided at the SCPC are in key areas such as biomarker discovery/validation, clinical studies, diagnostics and basic research. As specialists in targeted proteomics approaches, we specialize in the highly multiplexed quantitation of protein biomarkers in complex biological samples such as blood, cerebrospinal fluid, urine and other fluids/tissues. Our workflows use Multiple Reaction Monitoring-Mass Spectrometry (MRM-MS) with isotopically-labeled internal standards to achieve unparalleled specificity and sensitivity. This approach uses minimal sample volumes and provides quantitative information on up to hundreds of protein or peptide targets within a single short analysis.

Qualifications:

- University level – Doctorate Degree in Chemistry, Biochemistry or similar
- Strong experience in protein mass spectrometry
- Strong communication and writing skills

Please refer to McGill's requirements on postdoctoral appointments, www.mcgill.ca/gps/postdocs, for conditions and additional information on the status of the position. [In Quebec, a Postdoctoral Fellow is a full-time student status and trainee category, and the Ministère de l'Éducation, Enseignement Supérieur et Recherche (MESRS) stipulates that all postdocs must be registered on a university student registration system.] Please note that non-Canadian postdoctoral fellows must have valid Citizenship or an Immigration Canada (CIC) work permit to legally work in Canada.

Conditions:

If you are interested in this opportunity, please send your application to the Attention of Ms. Hannah Meltzer at hannah.meltzer@ladydavis.ca. Please ensure that your CV lists your current coordinates including telephone number, email address and address.

The Proteomics Centre would like to thank all applicants, however only those who qualify for an interview will be contacted.

The Proteomics Centre is an equal opportunity employer.

For questions, please contact Ms. Hannah Meltzer at hannah.meltzer@ladydavis.ca

Website: <https://www.igh.ca> ; <https://www.mcgill.ca/igh-proteomics/home>