THE UNIVERSITY OF BRITISH COLUMBIA

Faculty of Medicine Vancouver Campus
Biochemistry and Molecular Biology
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The University of British Columbia's (UBC) Faculty of Medicine invites applications for a Research Associate to join an interdisciplinary translational research program in our Canada Excellence Research Chair Program led by Dr. Sriram Subramaniam. The long-term mission of the program is to explore frontiers in structural biology and drug design using cryo electron microscopy (cryo-EM), with the goal of accelerating the development of effective therapeutic agents. Our research combines novel technologies for high-resolution 3D imaging with computation and machine learning as well as cell and molecular biology. More details about our program can be found at http://electron.med.ubc.ca.

Specific responsibilities will include:

- Hit and lead identification drug discovery on several therapeutic targets.
- Work to develop and implement assays suitable for assessment of compound efficacy and selectivity.
- Establish approaches for simultaneous optimization of potency and drug-like properties.
- Assess ligandability of new targets and execute pilot screens with fragments or limited libraries to validate approaches.
- Develop pharmacophore models to enable and execute in silico screening.
- Maintain awareness of additional screening methods for identification of hits such as DNA-encoded libraries.
- Work collaboratively with medicinal chemists and structural biologists to understand and optimize binding modes of compounds based on specific hypotheses.

The successful candidate will have a Ph.D in in a relevant life sciences discipline with excellent knowledge and experience in experimental biological assays and medicinal chemistry, with at least 5 years of research experience in computational chemistry and in silico screening. The applicant should be highly self-motivated and demonstrate the ability to work independently, conceive, initiate, organize, and manage research projects. Excellent verbal and written communication and interpersonal skills are a necessity, as well as the ability to work in a team environment. The applicant must have a strong research publication record and proven track record of collaborative research.

Applications should include a letter outlining the applicant's research, strengths and experiences relevant to the position requirements, a detailed curriculum vitae and the names of three references to:

Program in Cryo-EM Drug Design
Email: cryoem.lab@ubc.ca
Subject Line: Research Associate Position

UBC - One of the World's Leading Universities

As one of the world's leading universities, the University of British Columbia creates an exceptional learning environment that fosters global citizenship, advances a civil and sustainable society, and supports outstanding research to serve the people of British Columbia, Canada and the world.

UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.