



Postdoctoral Research Fellow, Cullis Laboratory
Department of Biochemistry & Molecular Biology
The University of British Columbia

Job Summary:

The Cullis Laboratory in the Department of Biochemistry & Molecular Biology at UBC is currently seeking two highly motivated, full-time Postdoctoral Research Fellows (PDF) with a Ph.D in Biochemistry, Biophysics, Pharmacology, or a related field. Reporting to the PI, Dr. Pieter Cullis, the successful candidate will conduct research to develop LNP systems containing siRNA and/or mRNA to enable gene therapies in extrahepatic tissues. He or she will also run collaborations with other academic groups, develop new intellectual property and support grant applications and patent applications. The start date for this position is flexible.

For more than fifty years, the Department of Biochemistry & Molecular Biology has played an active and important role at UBC and in the greater scientific community. The Department is home to approximately 90 research laboratories from fifteen Departments organized into nine research clusters, fostering a strong foundation for innovation and collaborations. All members of the Department maintain active, well-funded research programs that encompass many areas of modern biochemistry, and molecular and structural biology. The Department hosts an active Graduate program with more than 90 students and offers over fifteen undergraduate courses and laboratory courses for honours, major and minor Undergraduate programs.

The Department of Biochemistry & Molecular Biology is mainly located in the Life Science Institute (LSI) in Vancouver, BC. A number of research faculty, however, are dispersed at different locations, such as, Michael Smith Labs and BCCHR, and the teaching stream are based in the Biological Sciences Building at the Point Grey Campus. The Biological Sciences Building is a hub for Science Undergraduate teaching and students, housing a number of Departments such as the Departments of Biochemistry & Molecular Biology, Botany, Cellular & Physiological Sciences, and Zoology. All members of the Departments maintain their lab teaching activities at this new site.

Responsibilities will include but are not limited to the following:

- Formulation of lipid nanoparticles and optimization of lipid nanoparticles for in vitro and in vivo systems.
- Assay development and physicochemical characterization of lipid nanoparticles LNPs using biophysical and analytical techniques.
- In vitro and in vivo testing of lipid nanoparticles.
- Training junior laboratory members & students.
- Preparing manuscripts for publication and support grant proposals.
- Attending meetings and seminars.
- Initiating and directing collaborations with other laboratories.

Education/Work Experience:

- Ph.D in Biochemistry, Pharmacology, Biophysics, or related.
- The candidate should have a solid scientific and technical background with excellent written/oral communication, interpersonal and organizational skills.
- Preference will be given to candidates with a proven track record with a minimum of 2-3 first author publications in reputable journals.
- Experience with lipid nanoparticle (LNP) formulations would be considered a major asset. Excellent writing and presentation skills are required.

Candidates interested must apply via the [UBC Careers website](#).

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.