



Postdoctoral Research Fellow, Brunham Laboratory
Centre for Heart Lung Innovation
The University of British Columbia

Job Summary:

The Brunham Laboratory at the Centre for Heart Lung Innovation at UBC/St. Paul's is currently seeking one highly motivated, full-time Postdoctoral Research Fellow (PDF) with a Ph.D in Metabolism, Immunology, Genetics, Pharmacology, or a related field. Reporting to the PI, Dr. Liam Brunham, the successful candidate will conduct research in the area of lipid and lipoprotein metabolism in infections and sepsis using small animal models and in vitro approaches, as well as human genetics. A strong scientific background and excellent communication skills are required as the candidate will be part of a cross-faculty multi-disciplinary team.

One over-arching goal of the PDF position is to discover and build the science for new sepsis therapies by targeting lipoprotein metabolism. Sepsis is severe infection leading to vital organ dysfunction and kills more people than heart attacks. Several promising leads from one of our research team suggest strong candidate targets for sepsis by manipulating lipid metabolism.

The successful candidate will also lead collaborations with other academic groups, develop new intellectual property and support grant applications and patent applications. The start date for this position is flexible.

Responsibilities will include but are not limited to the following:

- Design and conduct of animal experiments assessing lipid modifying drugs on sepsis and inflammation
- Design and conduct of human genetic experiments analyzing genetic variants of interest on infectious and sepsis-related phenotypes
- In vitro and testing of lipids on cell response
- 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 Metabolism, Immunology, Genetics, Pharmacology 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 metabolism and assays would be beneficial
- Excellent writing and presentation skills are required



THE UNIVERSITY OF BRITISH COLUMBIA

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

About HLI and UBC

The Centre for Heart Lung Innovation (HLI), previously known as iCAPTURE and the James Hogg Research Centre, was established as the Pulmonary Research Laboratory in 1977 by Drs. James Hogg (2013 Gairdner Wightman Award Winner) and Peter Paré. Since then it has grown dramatically in scope, size, and worldwide impact. Basic and clinician scientists work together in an exciting multidisciplinary environment to address vital issues in heart, lung, and critical care disease. Situated within Providence Health Care's St. Paul's Hospital, a University of British Columbia teaching hospital, the HLI is a translational research centre using our basic molecular and cellular research discoveries to develop innovative approaches to prevent and treat human disease through our complementary and connected clinical research.

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.

Qualified candidates, please submit your cover letter and CV to Dr. Liam Bunham at liam.brunham@ubc.ca