



Assistant Professor (Tenure Track) | Department of Anesthesiology, Pharmacology & Therapeutics

The Department of Anesthesiology, Pharmacology & Therapeutics at The University of British Columbia (UBC) invites applications for a full-time faculty position (1.0 FTE) at the rank of Assistant Professor (tenure track) in Heart and Lung Pharmacogenomics and Precision Medicine. The successful applicant will also be offered membership as a principal investigator at the UBC James Hogg Research Centre, a UBC Senate approved centre for heart and lung research, located at St. Paul's Hospital.

The Department of Anesthesiology, Pharmacology & Therapeutics consists of more than 400 physicians and scientists, providing undergraduate and graduate programs in pharmacology and therapeutics, postgraduate residency programs and fellowships in anesthesiology. This faculty appointment within the Department of Anesthesiology, Pharmacology & Therapeutics will provide the candidate with immediate access to patients and clinicians located at St. Paul's Hospital, and the Lower Mainland academic anesthesiology hospital sites, to realize the translation and implementation of new heart and lung pharmacogenomics innovations.

The UBC James Hogg Research Centre is the largest research centre of its kind in Western Canada, where more than 40 Investigators form a dynamic and highly collaborative research community that aim to improve the health outcomes of heart and lung disease. The successful candidate will have opportunities to collaborate with a large and diverse community of basic scientists and clinicians throughout the Department and the St. Paul's Hospital, Providence Health Care Research Institute (PCHRI). Through infrastructure funds, the UBC James Hogg Research Centre provides substantial core facilities including those specific to the position: a computational hub for dry laboratory space, in-house IT support with servers specified for housing clinical data within St. Paul's Hospital to align with privacy issues, a molecular phenotyping core, and access to world-class heart and lung tissue, blood and cell registries.

Together, the Department of Anesthesiology, Pharmacology & Therapeutics and PCHRI offer unique environments where basic science research, clinical research, and clinical practice converge to ensure a multi-disciplinary research approach to clinically relevant problems regarding heart and lung pharmacogenomics and precision medicine. This is crucial to bridging the gap between research and clinical practice to enable translation of research findings into clinical practice.

The incumbent will be accountable to the Department Head of Anesthesiology, Pharmacology & Therapeutics for overall academic productivity and for appointment and promotion activities. Additional day to day research mentoring will be provided by the Director of the UBC James Hogg Research Centre and PCHRI. The incumbent will be expected to take part in undergrad pharmacology, graduate and postgraduate teaching and will work to bridge research and clinical practice in the areas of heart and lung disease using pharmacogenomics-driven strategies. The successful candidate will be expected to build a strong and productive research lab on four key areas of translation and innovation within the field of heart and lung pharmacogenomics:

1. Discovery/replication/integration of genomic variants, genes, proteins or other dimensionalities of "omics" data that are highly predictive of disease or therapeutic outcomes;
2. Validation of mechanisms by which variants/genes/proteins significantly affect disease and drug outcomes;
3. Translational implementation science of highly predictive and validated pharmacogenomic biomarkers into clinical practice;
4. Commercialization research to bring clinically meaningful findings to the rest of Canada and the world.

Candidates for this position must hold a PhD, MD/PhD or MD/MSc degree, awarded within the past 10 years, or equivalent with postdoctoral research experience. The candidate will have demonstrated clear evidence and expertise in statistical genetics, genetic epidemiology, human genetics, and systems biology, which can be applied to an independent research program in the area of heart and lung pharmacogenomics. The successful candidate will show demonstrated ability to achieve excellence in teaching through undergraduate, graduate and postgraduate teaching activities of the units. The incumbent will also show demonstrated ability in scholarly activity through operating grants and publications, and will be expected to provide service to the University and the broader academic and professional community.

Salary will be commensurate with qualifications and experience. Competitive start-up infrastructure funds will be provided.

A letter of application outlining the applicant's research and teaching interests including a description of two potentially fundable projects (maximum 5 pages), accompanied by a detailed curriculum vitae and the names of three references should be directed to:

Allison Rintoul

Senior Administrator, UBC Department of Anesthesiology, Pharmacology & Therapeutics

Email: allison.rintoul@ubc.ca

Subject Line: Heart and Lung Pharmacogenomics

For specific questions please contact:

Pascal Bernatchez

Associate Professor, UBC Department of Anesthesiology, Pharmacology & Therapeutics

Email: pascal.bernatchez@hli.ubc.ca

Subject Line: Heart and Lung Pharmacogenomics

Review of applications will begin on January 1, 2020 and continue until the position is filled. The anticipated start date for this position is October 1, 2020 or upon a date to be mutually agreed.

The **University of British Columbia** is a global centre for research and teaching, consistently ranked among the top 20 public universities in the world. Since 1915, UBC's entrepreneurial spirit has embraced innovation and challenged the status quo. UBC encourages its students, staff and faculty to challenge convention, lead discovery and explore new ways of learning. At UBC, bold thinking is given a place to develop into ideas that can change the world.

Our Vision: To Transform Health for Everyone.

Ranked among the world's top medical schools with the fifth-largest MD enrollment in North America, the **UBC Faculty of Medicine** is a leader in both the science and the practice of medicine. Across British Columbia, more than 11,000 faculty and staff are training the next generation of doctors and health care professionals, making remarkable discoveries, and helping to create the pathways to better health for our communities at home and around the world.

The Faculty — comprised of approximately 2,200 administrative support, technical/research and management and professional staff, as well approximately 650 full-time academic and over 9,000 clinical faculty members — is composed of 19 academic basic science and/or clinical departments, three schools, and 24 research centres and institutes. Together with its University and Health Authority partners, the Faculty delivers innovative programs and conducts research in the areas of health and life sciences. Faculty, staff and trainees are located at university campuses, clinical academic campuses in hospital settings and other regionally based centres across the province.

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 of Canada will be given priority.

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