



**a place of mind**

**THE UNIVERSITY OF BRITISH COLUMBIA**

**Position:** Full-time Postdoctoral Research Fellow

**Location:** Fedida Laboratory, Department of Anesthesiology, Pharmacology and Therapeutics, University of British Columbia

**Collaboration Partners:** Prof. Konrad Walus (Electrical & Computer Engineering), Aspect Biosystems Ltd. IonsGate Preclinical Services

Applications are invited from outstanding individuals for a full-time Postdoctoral Research Fellow position within the Fedida Laboratory in the Department of Anesthesiology & Pharmacology & Therapeutics at the University of British Columbia. The advertised position is for 1 year, with the possibility of extension.

Applicants must hold a Ph.D. from a recognized institution and should understand and have demonstrated practical experience with microelectrode recording of action potentials, or voltage clamp of ion channel currents from cultured cells or acutely isolated primary cells. As well, we are looking for applicants trained in protein expression and localization, particularly of ion channels, and cardiac cell biology and tissue engineering. Specific training, particularly on the microelectrode instruments, will be provided, but the individual will be expected to perform most tasks with a minimum of supervision.

The focus of this position is experimental so applicants with a strong record of experimental research will be prioritized. The applicant should have evidence of outstanding quality research publications and a proven track record of collaborative research, ideally interdisciplinary research.

Successful candidates will engage in an active collaboration between the Fedida Lab, The Walus Lab (UBC), Aspect Biosystems Ltd., and indirectly with IonsGate Preclinical Services. The research will involve the characterization and development of novel 3D Bioprinting technology, bioprinted materials, and tissue culture processes with a specific focus on enabling the development of next generation 3D cardiac tissue models. The successful candidate will be expected to:-

- Perform and optimize electrophysiological characterization of changes in action potential shapes and ion channel function in 3D-printed cardiac cell structures.
- Perform molecular biochemical characterization of ion channel expression in 3D cardiac tissues.
- Maintain bioprinted cardiac tissues in appropriate cell culture conditions.
- Interpret functional 3D cardiac tissue data in a relatively independent manner, present the data to UBC and Aspect researchers and contribute ideas to guide the further development of 3D tissues.



Aspect Biosystems Ltd. ([www.aspectbiosystems.com](http://www.aspectbiosystems.com)) is an award winning Canadian startup developing state-of-the-art 3D bioprinting technology capable of creating living human tissues on demand. Aspect aims to drive a fundamental shift in the pharmaceutical industry by enabling the development of physiologically relevant human tissue models for pre-clinical drug discovery, moving away from the use of animals and de-risking experimental

pharmaceuticals entering clinical trials. Aspect is a forward looking company, and envisions a future where our technology is used directly to save lives through the creation of personalized implantable tissue, and even functional organs.

Interested applicants should submit an application package that consists of a short biography and curriculum vitae, a statement of interest including research priorities, and evidence of their work to [david.fedida@ubc.ca](mailto:david.fedida@ubc.ca) . A list of three references with contact information should also be included.

The start date of the appointment could be as early as June 1, 2018. Salary will be commensurate with qualifications and experience. Applications must be submitted online at <http://www.hr.ubc.ca/careers-postings/faculty.php>. The closing date for the applications will be August 30 2018.

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 Canadian citizens and permanent residents of Canada will be given priority