POSTDOCTORAL POSITION IN CARDIOVASCULAR RESEARCH
Dr. Michael Zaugg, Cardiovascular Anesthesia Research Laboratory

Project:
Insulin Resistance Due to Lipotoxicity of Fat Emulsions In Healthy and Diabetic Hearts: Underlying Mechanisms and Prevention
In this translational research project, the successful candidate will measure the extent and severity of insulin resistance and inflammation caused by fat emulsions in healthy and type-2 diabetic hearts. Experiments will focus on signaling mechanisms underlying metabolic effects of TG emulsions, such as alterations in the canonical insulin signaling pathway as well as activation of pro-inflammatory pathways. The role of mitochondria will be also investigated. The cause-effect relationships between lipid intermediates, pro-inflammatory signaling, mitochondrial function, and insulin resistance will be established using isolated cells in culture.

Requirements:
The ideal candidate will be a highly ambitious, self-motivated individual with:
- A PhD degree in a discipline related to biomedical research (cell biology, pharmacology, diabetes research);
- Experience in basic cell biology (primary cell isolation and culture) and biochemistry techniques.
- Experience in molecular biology (cell transfections)
- Expertise in the following fields and techniques is an asset: molecular biology of lipids, mitochondria physiology and related techniques (polarography)
- Excellent written and oral communication skills in English and the ability to work in a collaborative team are essential

To Apply:
Forward your CV, a cover letter that outlines your career objectives and why you are a good fit for the project, and contact information for three references to:

Michael Zaugg, MD MBA FRCPC
Michael.zaugg@ualberta.ca

Closing date:
Position open until filled

We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.

The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Métis and Inuit; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.