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Post-doctoral position is available in the laboratories of Drs. Greg Korbitt and Andrew Pepper in the Department of Surgery, Alberta Diabetes Institute at the University of Alberta, Edmonton, Alberta, Canada.

Our research programs activities are based on the concept that to enable islet transplantation to become a therapy for more patients with Type 1 diabetes, there is a need to develop safer anti-rejection strategies that reduce/avoid chronic administration and to identify an unlimited source of insulin producing islets (e.g. animal or stem cell-derived). Available research projects include:

1. Development of a localized immunomodulatory micro-particle drug delivery system that is co-transplanted with islet grafts and subsequently prevents rejection.
2. To develop an extra-hepatic subcutaneous islet transplant site by utilizing biomaterials.
3. Development of Good Manufacturing Practice (GMP) protocols (e.g. Health Canada and FDA approved) for the preparation of clinically grade neonatal porcine islets and to scale up the manufacturing process to obtain clinically therapeutic numbers of porcine islets.

Experience in stem cell biology, cell processing, biomaterials, bioengineering, small and large animal surgery, molecular biology, immunohistochemistry and FACS analysis are all favorable assets. The successful candidate will be highly motivated, collaborative, will be committed to careful experimentation, and have excellent written and oral communication skills.

To apply, please send a CV and names of 3 referees to Drs. Korbitt ([korbitt@ualberta.ca](mailto:korbitt@ualberta.ca)) and Pepper ([apepper@ualberta.ca](mailto:apepper@ualberta.ca)).