Pancreatic islet transplantation

Research emphasis:

Dr. Adin has a background in microsurgery and vascularized organ transplantation. His laboratory currently is focused on translational research in pancreatic islet cell transplantation. The lab has the capability to isolate islets in rodents, pigs, or companion animals and to maintain islets in culture for in vitro studies of implant materials or islet biology. Dr. Adin has also performed clinical pig to dog islet transplants in dogs with diabetes and his ultimate goal is to offer cell based therapy for diabetes through his work as a clinician at the Terry Center Veterinary Hospital.

Application:

- Pancreatic islet isolation
- Models of hypoxic stress
- Fluorescence microscopy
- Transplantation models

Collaboration potential:

- Animal models of transplantation
- Evaluation of devices for endocrine cell implantation
- Application of stem cell therapy in companion animal trials

Selected publications:


