Featured Investigator: Dr. David A. Jacobson

David A. Jacobson, PhD
Associate Professor, Molecular Physiology and Biophysics

Research Specialty:
Islet expression, islet ion channel regulation

Research Description:

**Pancreatic Islet Expression and Function of Two-Pore Domain Potassium Channels**
The Jacobson lab has been working with rodent islets to study glucose and anesthesia sensitive K2P channel regulation. Dr. Jacobson hopes to identify how anesthesia can affect blood sugar, opening up new possibilities for the treatment of diabetes.

**Regulation of Islet Electrical Activity and Hormone Secretion by L-type Calcium Channel Phosphorylation**
The Jacobson lab has also been studying how human and rodent islets regulate hormone secretion through Ca2+ channels. Understanding this mechanism will provide new insight on how these channels regulate islet hormone secretion and allow for the development of new treatment for diabetes.

Learn more at the Jacobson Lab website

Dr. Jacobson will be hosting the 2018 Islet Biology Workshop at Vanderbilt University. For more information, please visit: [http://www.isletsociety2018.com/](http://www.isletsociety2018.com/)