LaunchPad for Diabetes Funded Projects 2015 - 2019

2018

**Renewal: AAV mediated gene therapy for diabetes**  
Edward Perez-Reyes PhD-Pharmacology  
Jennifer Kirby MD-Endocrinology and Metabolism  
Thurl Harris, PhD-Pharmacology

**Renewal: Novel Cytokine Therapy for Type 1 Diabetes**  
Rahul Sharma PhD-Center for Inflammation and Regeneration  
Mark Okusa MD-Nephrology

**A Multiparametric Biosensor Assay for Standardized Characterization of Islets**  
Huiwang Ai, PhD, Molecular Physiology & Biological Physics  
Jose Oberholzer, MD, Chief of Transplant and Director of Transplant Center  
Yong Wang, PhD, Transplant Surgery

**Exploration of Lacripep for Pancreatic Islet Expansion, Survival & Post Transplantation Immunosuppression**  
Gordon Laurie, PhD, Cell Biology  
Ken Brayman, MD, Surgery

**BAFF 60mer as a novel therapeutic target for Type 1 diabetes**  
Akshaya Meher, PhD, Pharmacology & CVRC  
Coleen McNamara, MD, Medicine: Cardiovascular

2017

**Renewal: Novel Cytokine Therapy for Type 1 Diabetes**  
Rahul Sharma PhD, Center for Inflammation and Regeneration  
Mark Okusa MD, Nephrology

**Microfluidic Selection of Functional Islets for Transplantation in Diabetes**  
Shayn Peirce-Cottler PhD, Biomedical Engineering  
Nathan Swami, PhD, Electrical and Computer Engineering  
Ken Brayman MD, Surgery.

**Improve islet transplant outcomes for Type 1 diabetes by minimizing rapamycin immunotoxicity**  
Jose Oberholzer MD, Chief of Transplant and Director of Transplant Center  
Yong Wang, PhD, Transplant Surgery

**AAV mediated gene therapy for diabetes**  
Edward Perez-Reyes PhD, Pharmacology  
Jennifer Kirby MD, Endocrinology and Metabolism  
Thurl Harris, PhD, Pharmacology.

**Enhancement of glucagon counterregulation in type 1 diabetes by basal amylin replacement**  
Leon Farhi, PhD- Endocrinology and Metabolism  
Stacy Anderson, MD-Medical Director of the Center for Diabetes Technology.
2016

RENEWAL: Targeting adipose tissue lipolysis to prevent postoperative hyperglycemia and improve recovery in rodent model of T1DM
Thurl Harris PhD, Pharmacology
Alex Kadl MD, Pulmonary and Critical Care Medicine

Microfluidic Selection of Functional Islets for Transplantation in Diabetes
Shayn Peirce-Cottler, PhD, Biomedical Engineering
Nathan Swami, PhD, Electrical Engineering
Ken Brayman, MD, Surgery

Novel Cytokine Therapy for Type-1 Diabetes
Rahul Sharma, PhD, Nephrology
Mark Okusa, MD, Nephrology

Role of Extracellular Vesicle for Vascular Health in Adults with Prediabetes
Steven Malin, PhD, Kinesiology
Uta Erdbrugger, MD, Nephrology

Modulating Diacylglycerol Kinase Activity to Enhance Insulin Secretion in Type 2 Diabetes (pilot project)
Ken Hsu, PhD, Chemistry & Pharmacology

Application of Machine Learning to Identify Diabetic Patients at Risk for High Atherosclerotic Burden in Coronary Arteries (pilot project)
Michael Lawrence, PhD, Biomedical Engineering
Coleen McNamara, MD, Cardiovascular Medicine

2015

Development of Dendritic cell (DC) therapeutic intervention for type 1 Diabetes (T1D)
Amandeep Bajwa PhD, Nephrology
Mark Okusa MD, Nephrology

Design and Testing of a Closed-Loop System for Control of Type 1 Diabetes in Young Children 5-8 years old
Mark DeBoer MD, Pediatrics-Division of Pediatric Endocrinology & Diabetes
Daniel Chernavvsky MD, Psychiatry and NB Sciences

Treatment of diabetic retinopathy with microRNA-let-7b inhibitor
Bijan Dey PhD, Biochemistry and Molecular Genetics
Paul Yates MD, Ophthalmology

Targeting adipose tissue lipolysis to prevent postoperative hyperglycemia and improve recovery in rodent model of T1DM
Thurl Harris PhD, Pharmacology
Alex Kadl MD, Pulmonary and Critical Care Medicine