The UC San Diego Pediatric Diabetes Research Center (PDRC) and the Institute of Engineering in Medicine (IEM) are proud to present:

**TYPE 1 DIABETES: NEW TECHNOLOGIES AND THERAPEUTICS**

**THURSDAY, JANUARY 19, 2017**

Sanford Consortium for Regenerative Medicine, Duane Roth Auditorium
2880 Torrey Pines Scenic Drive, La Jolla CA 92037

7:00 a.m.  Registration
8:00 a.m.  Welcome
Maike Sander, MD and David Gough, PhD
8:15 a.m.  KEYNOTE PRESENTATION
Carla J. Greenbaum, MD – Benaroya Research Center
“Type 1 Diabetes: Disease Progression and Clinical Challenges”

**SESSION 1**

**ARTIFICIAL PANCREAS**
Session Chair: Michael Gottschalk, MD, PhD
9:00 a.m.  Edward Damiano, PhD - Boston University
“The Long and Winding Road to the Bionic Pancreas”
9:30 a.m.  Francis J. Doyle III, PhD - Harvard University
“Medically-Inspired Algorithm Design for the Artificial Pancreas”
10:00 a.m.  Refreshment Break
10:30 a.m.  David Gough, PhD - UC San Diego
“Continuous Glucose Sensing of the Masses”
11:00 a.m.  Howard Zisser, MD - UC Santa Barbara
“Artificial Pancreas Overview”

**SESSION 2**

**STEM CELL THERAPIES**
Session Chair: Robert R. Henry, MD
11:30 a.m.  Jeremy Pettus, MD - UC San Diego
“Islet Encapsulation: Progress in Clinical Trials”

12:00 p.m.  Clark K. Colton, PhD - Massachusetts Institute of Technology
“Encapsulated Islets with Enhanced Oxygen Delivery for Long Term Viability and Function”
12:30 p.m.  Postdoctoral Research Presentation
12:45 p.m.  Lunch

**SESSION 3**

**REGENERATION**
Session Chair: Alberto Hayek, MD
2:00 p.m.  Teresa Rodriguez-Calvo, DVM, PhD – La Jolla Institute for Allergy & Immunology (Von Herrath Lab)
“Increase in Pancreatic Proinsulin and Preservation of Beta Cell Mass in Autoantibody Positive Donors prior to Type 1 Diabetes Onset”
2:15 p.m.  Neal Devaraj, PhD - UC San Diego
“Enzymatic Amplification of Imaging Signals for Detecting Beta Cells”
2:45 p.m.  Maike Sander, MD - UC San Diego
“Novel Pathways for Expanding Beta Cell Mass”
3:15 p.m.  Bryan Laffitte, PhD - Genomics Institute of the Novartis Research Foundation
“Pharmacological Regulation of Human Beta Cell Proliferation”
3:45 p.m.  Closing Remarks
Maike Sander, MD and David Gough, PhD

Space is limited and advance registration is required – Click here to register online!
or email Debbie Taheri, detaheri@ucsd.edu