

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. **Breakfast and 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"

2:30 p.m. **Neal Devaraj, PhD** - UC San Diego

"Enzymatic Amplification of Imaging Signals for Detecting Beta Cells"

3:00 p.m. **Maike Sander, MD** - UC San Diego

"Novel Pathways for Expanding Beta Cell Mass"

3:30 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](mailto:detaheri@ucsd.edu)

UC San Diego
HEALTH SCIENCES
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