### Pediatric Diabetes Research Center (PDRC)
#### 4th Annual Scientific Symposium
Friday, January 31, 2014

**Session 1**  
**Endoplasmic Reticulum: Sentinel of Cellular Stress**  
*Chair: Fred Levine, Sanford-Burnham Medical Research Institute*

- **8:45 a.m.** Randal Kaufman, Sanford-Burnham Medical Research Institute  
  *The Role of ER Stress and Diabetes*
- **9:15 a.m.** Fumihiko Urano, Washington University School of Medicine  
  *Patient-Based Therapeutic Development for Wolfram Syndrome: A Prototype of Endoplasmic Reticulum Disease*
- **9:45 a.m.** Anne N. Murphy, UC San Diego  
  *Reversal of WFS-2 Induced Cell Dysfunction by N-Acetylcysteine*

**Session 2**  
**Transcriptional Co-Regulators and Beta Cell Function**  
*Chair: Mark Huising, The Salk Institute*

- **10:45 a.m.** Chuxia Deng, NIDDK, National Institutes of Health  
  *SIRT1 in Insulin Resistance and Diabetes*
- **11:15 a.m.** Emilie Blanchet, The Salk Institute – Montminy Lab  
  *The Role of CREB-CRTC2 Pathway in Beta Cell Dysfunction*
- **11:30 a.m.** Lunch

**Session 3**  
**Beta Cell Stress: Coping or Compensating?**  
*Chair: Charles King, UC San Diego*

- **1:00 p.m.** James D. Johnson, The University of British Columbia  
  *Regulation of Beta Cell Survival by Locally Produced Growth Factors*
- **1:30 p.m.** Wenxian Fu, UC San Diego  
  *Immune Regulation of the Inflammation in Type 1 Diabetes*
- **2:00 p.m.** Ron Piran, Sanford-Burnham - Levine Lab  
  *Induced Islet Cell Transdifferentiation and its Relevance to T1D*
- **2:15 p.m.** Refreshment Break

**Session 4**  
**Mitochondria: Sentries for Beta Cell Function and Survival**  
*Chair: Jane Kim, UC San Diego*

- **2:45 p.m.** Yun Sok Lee, UC San Diego – Olefsky Lab  
  *Regulation of Insulin Secretion by Fractalkine and CX3CR1*
- **3:00 p.m.** Ulupi Jhala, UC San Diego  
  *Crosstalk of Survival and Death Pathways in the Beta Cell*
- **3:30 p.m.** Orian Shirihai, Boston University Medical Center  
  *The Social Life of Mitochondria in the Beta Cell*
- **4:00 p.m.** Closing Remarks: Maike Sander

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