

# Sanford Consortium / Sanford Research Symposium

MAY 18, 2015 | 8 AM - 5:30 PM

DUANE ROTH AUDITORIUM  
SANFORD CONSORTIUM FOR  
REGENERATIVE MEDICINE

**8:00 AM** | **Breakfast**

**9:00 AM** | **Welcome and Updates**

*Lawrence Goldstein, PhD*

Director, Sanford Stem Cell Clinical Center  
Director, UC San Diego Stem Cell Program  
Scientific Director, Sanford Consortium  
for Regenerative Medicine  
Distinguished Professor, Department of Cellular &  
Molecular Medicine, UC San Diego

**9:05 AM** | **Update on Sanford Health**

*David Pearce, PhD*

Vice President, Chief Operating Officer of Research,  
Sanford Health (South Dakota)  
Director, Sanford Children's Health Research Center,  
Sanford Research (South Dakota)  
Professor, Department of Pediatrics, Sanford School  
of Medicine of the University of South Dakota

**9:10 AM** | **The Interplay Between Neurons  
and Astrocytes in Autism  
Spectrum Disorders**

*Alysson Muotri, PhD*

Associate Professor, Department of Pediatrics  
and Cellular & Molecular Medicine, UC San Diego

**9:40 AM** | **Post-transcriptional Regulation  
of Epidermal Stem Cell  
Self-Renewal**

*George Sen, PhD*

Assistant Professor, Department of Cellular  
& Molecular Medicine, UC San Diego  
Assistant Professor of Medicine in the Division of  
Dermatology, UC San Diego

**10:10 AM** | **Coffee Break**

**10:30 AM**

**Probing the Secrets of  
Alzheimer's Disease with  
Stem Cells**

*Lawrence Goldstein, PhD*

Director, Sanford Stem Cell Clinical Center  
Director, UC San Diego Stem Cell Program  
Scientific Director, Sanford Consortium  
for Regenerative Medicine  
Distinguished Professor, Department of Cellular &  
Molecular Medicine, UC San Diego

**11:00 AM**

**Window of Opportunity:  
Clinical Trials in New-onset Type  
1 Diabetes**

*Kurt Griffin, MD, PhD*

Director of Clinical Trials and Scientist, The  
Sanford Project, Sanford Research (South Dakota)  
Associate Professor, Department of Pediatrics,  
Sanford School of Medicine of the University of South  
Dakota

**11:30 AM**

**Distinct Cells-of-Origin for  
Pediatric Brain Tumors Driven by  
Oncogenic Sonic  
Hedgehog**

*Haotian Zhao, PhD*

Associate Scientist, Sanford Children's Health  
Research Center (South Dakota)

**12:00 PM**

**Lunch**

**1:00 PM**

**Mechanistic Insights into Motor  
Neuron Degeneration in X-linked  
Spinal and Bulbar Muscular  
Atrophy**

*Albert La Spada, MD, PhD*

Professor and Chief, Division of Genetics,  
Department of Pediatrics, UC San Diego  
Professor, Department of Cellular & Molecular  
Medicine, UC San Diego

**1:30 PM**

**ZNF423 is a Signal  
Integration Node in  
Developing Cells Responding  
to Their Environments**

*Bruce Hamilton, PhD*

Director, UC San Diego Genetics  
Training Program  
Associate Director, IGM  
Professor, Department of Cellular & Molecular  
Medicine, UC San Diego

**2:00 PM**

**Genetic Susceptibility to  
Syndromic Hydrocephalus**

*Lance Lee, PhD*

Associate Scientist, Sanford Children's Health  
Research Center, Sanford Research (South Dakota)  
Assistant Professor, Department of Pediatrics,  
Sanford School of Medicine of the University  
of South Dakota

**2:30 PM**

**Using Stem Cells to Probe  
Complex, Multifactorial,  
Polygenic Diseases**

*Evan Snyder, MD, PhD*

Faculty Physician, Department of Pediatrics, UC  
San Diego; Professor, Sanford-Burnham Medical  
Research Institute

**3:00 PM**

**Coffee Break**

**3:20 PM**

**Making Heads or Tails of WNT  
Signaling in Stem Cells and  
Disease**

*Karl Willert, PhD*

Director, Human Embryonic Stem Cell Core Facility,  
UC San Diego Stem Cell Program  
Assistant Professor, Department of Cellular &  
Molecular Medicine, UC San Diego

**3:50 PM**

**Malignant Reprogramming:  
Biologic and Therapeutic  
Implications**

*Catriona Jamieson, MD, PhD*

Deputy Director, Sanford Stem Cell  
Clinical Center; Chief, Division of Regenerative  
Medicine, UC San Diego

Director, Stem Cell Research at Moores  
UC San Diego Cancer Center

Associate Professor, Division of  
Hematology-Oncology, UC San Diego

**4:20 PM**

**Therapeutic Rescue of  
Mitochondrial Function in  
hiPSC Derived Niemann Pick  
Type C1 Neurons**

*Paulina Ordonez, MD*

Assistant Professor of Pediatrics,  
UC San Diego School of Medicine

**4:50 PM**

**Imaging Cancer Heterogeneity  
and Therapy Resistance in  
Real Time**

*Tannishtha Reya, PhD*

Professor, Department of Pharmacology,  
UC San Diego

# Sanford Consortium / Sanford Research Symposium

MAY 19, 2015 | 8 AM - 12:00 PM

DUANE ROTH AUDITORIUM  
SANFORD CONSORTIUM FOR  
REGENERATIVE MEDICINE

**8:00 AM** | **Breakfast**

**9:00 AM** | **Novel Mechanisms for Distal  
Transport in Developing and  
Mature Neurons**

*Jill Weimer, PhD*

Associate Scientist,  
Sanford Children's Health Research Center,  
Sanford Research (South Dakota)  
Assistant Professor, Department of Pediatrics,  
Sanford School of Medicine of the University of  
South Dakota

**9:30 AM** | **Towards the Clinical  
Application of an Emerging  
Model of Hematopoietic Stem  
Cell-Mediated Tissue Repair to  
Treat the Multi-Systemic  
Disorder Cystinosis**

*Stephanie Cherqui, PhD*

Assistant Professor, Department of Pediatrics,  
UC San Diego School of Medicine

**10:00 AM** | **Autophagy, Parkinson's Disease  
and the Importance of  
Autophagosome Maturation**

*Michael Krueger, MD*

Associate Scientist,  
Sanford Children's Health Research Center,  
Sanford Research (South Dakota)  
Assistant Professor, Department of Pediatrics &  
Neuroscience, Sanford School of Medicine of the  
University of South Dakota

**10:30 AM** | **Coffee Break**

**10:45 AM** | **A Porcine Model of  
Ataxia-Telangiectasia Reveals  
Early Cerebellar Lesions and a  
Network of Altered Gait  
Components**

*Rosanna Beraldi, PhD*

Staff Scientist,  
Sanford Children's Health Research Center,  
Sanford Research (South Dakota)

**11:15 AM** | **Tracking Protein Footprints to  
New Horizons with BiolD**

*Kyle Roux, PhD*

Associate Director and Scientist,  
Sanford Children's Health Research Center,  
Sanford Research (South Dakota)

**11:45 PM** | **Final Remarks**

*David Pearce, PhD*

Vice President, Chief Operating Officer of Research,  
Sanford Health (South Dakota)  
Director, Sanford Children's Health Research Center,  
Sanford Research (South Dakota)  
Professor, Department of Pediatrics, Sanford School  
of Medicine of the University of South Dakota

**12:00 PM** | **Close**

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