June 26
Josef Parvizi, Studying the Localization of Functions in the Human Brain with Intracranial Electrodes
Vinod Menon, Development of Functional and Structural Brain Networks: Implications for Neurodevelopmental Disorders
Lawrence Steinman, When Bad is Good: Beneficial Amyloid to Protect the Brain
Dean Felsher, Modeling and Predicting Oncogene Addiction

July 3
Mark Pegram, Therapeutic Strategies Targeting ERBB2
Firdaus Dhabhar, A Hassle a Day May Keep the Doctor Away - Protective Versus Harmful Effects of Stress
Renee Reijo Pera, Reprogramming and Programming in Human Embryo Development
Alexander Urban, Genomic Basis of Mental Disorders

July 10
Beth Pruitt, Microsystems for Mechanobiology
Kang Shen, Using a Small Nervous System to Answer Big Questions
Liqun Luo, Of Mice and Flies: How Neural Circuits are Organized and Built
Carla Shatz, Restoring Plasticity to Old Brains

July 17
Jason Dragoo, The Clinical Use of Stem Cells in Orthopaedic Surgery
Euan Ashley, Big Data: Biological Networks, Human Genomes
Howard Chang, Genome Regulation by Long Noncoding RNAs
Yoon-Jae Cho, A Bedside to Bench to Bedside Approach to Childhood Brain Tumors

July 24
Sean Mackey, The Strain in Pain Lies Mainly in the Brain: Lessons Learned from Neuroimaging of Pain
Nicholas Melosh, Engineering Cell Access
Yunzhi Yang, Bio Inspired Approaches for Musculoskeletal Tissue Engineering
Sarah Heilshorn, Biomaterials to Improve Stem Cell Transplantation Therapies

August 7
Steven Boxer, Not Your Grandmother’s GFP
Matthew Porteus, Genome Editing using Engineered Nucleases
Sheri Krams, Visualizing the Functional Interactions Between NK Cells and Their Targets
Robert Malenka, Mechanisms and Functions of Synaptic Plasticity

August 14
Andrew Fire, The Difficulties of Genome Engineering and What We Can Learn from Them
Ravindra Majeti, Therapeutic Targeting of Human Acute Myeloid Leukemia Stem Cells
James McClelland, Understanding the Cognitive Consequences of Neurodegenerative Disease Through Simulated Damage to Artificial Neural Networks
Joseph Wu, iPSCs for Cardiovascular Diseases

August 21
Alesha Castillo, Mechanical Stimulation in Bone Adaptation and Healing
Michael Snyder, Getting Your Genome Sequenced: What Can You Learn?
Irv Weissman, Normal and Neoplastic Stem Cells
Heng Zhao, The Protective Effects of Ischemic Postconditioning Against Stroke

August 28
Michael Snyder, Next-Generation Sequencing: What Can You Learn?