1:00pm
Introduction
Carla Shatz, David Starr Jordan Director of Stanford Bio-X

1:10pm
Fully-Internalized Wirelessly-Powered Optogenetic Devices to Study Pain in Unconstrained and Complex Environments
Ada Poon (Electrical Engineering)
Scott Delp (Bioengineering, Mechanical Engineering)
David Clark (Anesthesia)

1:30pm
Innovating High-Resolution Novel Imaging Approaches to Elucidate Mechanisms of Prion-Like Spreading of Neurodegenerative Disease
Jin Hyung Lee (Bioengineering, Neurology)
Aaron Gitler (Genetics)

1:50pm
A Circadian Code for Fat Cell Differentiation
Mary Teruel (Chemical & Systems Biology)
Sanjay Lall (Electrical Engineering, Aeronautics & Astronautics)
Allison Okamura (Mechanical Engineering)

2:10pm
Developing Mechanically Malleable Biomimetic Hydrogels for 3D Cell Culture and Tissue Regeneration
Ovijit Chaudhuri (Mechanical Engineering)
Yan Xia (Chemistry)
Manish Butte (Pediatrics)

2:30pm
Initial Feasibility Determination for a Novel AIDS Vaccine
Peter Kim (Biochemistry)
James Swartz (Chemical Engineering, Bioengineering)

2:50pm
In Vivo Metabolic Imaging of Senescent Cells Using Hyperpolarized 13C MRS
Daniel Spielman (Radiology)
Jianghong Rao (Radiology)
Dean Felsher (Medicine)

3:10pm
Benchtop Gene Synthesizer: Oligo-Templated Polymerization (OTP)
Mark Kay (Pediatrics)
Ron Davis (Biochemistry)

3:30pm
Nanostraw Sampling to Monitor Cellular Reprogramming
Joseph Wu (Cardiovascular Medicine, Radiology)
Nicholas Melosh (Materials Science & Engineering)

3:50pm
Closing Comments

4:00pm - Nexus Café
Reception & Poster Session