

Stanford Bio-X
Interdisciplinary Initiatives
Seed Grants Program Symposium
February 17, 2016
Clark Center Auditorium
biox.stanford.edu

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

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

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

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

2:10pm
Developing Mechanically Malle-
able Biomimetic Hydrogels for
3D Cell Culture and Tissue Re-
generation
Ovijit Chaudhuri (Mechanical
Engineering)
Yan Xia (Chemistry)
Manish Butte (Pediatrics)

2:30pm
Initial Feasibility Determina-
tion for a Novel AIDS Vaccine
Peter Kim (Biochemistry)
James Swartz (Chemical Eng-
ineering, Bioengineering)

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

3:10pm
Benchtop Gene Synth-
esizer: Oligo-Templat-
ed Polymerization
(OTP)
Mark Kay (Pediatrics)
Ron Davis (Biochemistry)

3:30pm
Nanostraw Sampling to Mon-
itor Cellular Reprogramming
Joseph Wu (Cardiovascular
Medicine, Radiology)
Nicholas Melosh (Materials Sci-
ence & Engineering)

3:50pm
Closing Comments

4:00pm - Nexus Café
Reception & Poster Session

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