

# BIO-X

**August 27  
2014**

## Interdisciplinary Initiatives Seed Grants Program Symposium

**James H. Clark Center Auditorium**

**Poster Session at 4:00pm  
Clark Center  
Courtyard**

1:00pm Introduction

1:10pm

**Biomarkers of the Social Deficits of Children with Autism**

**Karen Parker (Psychiatry)**

Antonio Hardan (Psychiatry)

Joshua Elias (Chemical & Systems Biology)

Sonia Partap (Neurology)

1:30pm

**Pluridirectional High-energy Agile Scanning Electron Radiotherapy (PHASER): A Novel Design for Radiation Treatment of Cancer**

**Peter Maxim (Radiation Oncology)**

Billy Loo (Radiation Oncology)

Sami Tantawi (SLAC)

1:50pm

**Visualizing the Molecular Processes of the Retina in Living Subjects**

**Adam de la Zerda (Structural Biology)**

Mark Blumenkranz (Ophthalmology)

2:10pm

**Single Molecule and High-Resolution Imaging of Developmental Signal Transducers**

**W.E. Moerner (Chemistry)**

Matthew Scott (Developmental Biology)

2:30pm

**Developing Biomimetic Hydrogels to enhance Pluripotent Stem Cell-based Therapy for Smooth Muscle Tissue Repair**

**Fan Yang (Orthopaedic Surgery)**

Renee Reijo Pera (Obstetrics and Gynecology)

Bertha Chen (Obstetrics and Gynecology)

2:50pm

**Real-time Measurements of Biological Interactions using Multiplexed Peptide Arrays on Silicon Wafers**

**PJ Utz (Medicine)**

Shan Xiang Wang (Electrical Engineering)

3:10pm

**Engineering the Outside of the Cell from Within: Cytoskeletal Control of Cell Wall Structure and Mechanics**

**KC Huang (Bioengineering)**

Wolf Frommer (Biology)

David Ehrhardt (Plant Biology)

3:30pm

**Probing the Active Mechanics of Hair Cells - Faster than the Speed of Hearing**

**Beth Pruitt (Mechanical Engineering)**

Tony Ricci (Otolaryngology)

3:50pm Closing Comments

4:00pm Reception and Poster Session

<https://biox.stanford.edu/research/seed-grants>



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