

**Rising Stars in Biomedical 2016
Meeting Agenda**

November 9

- 8:30-9:00 Breakfast
- 9:00-9:15 Welcome remarks
Ian A Waitz, Polina Golland, Martha Gray
- 9:15-9:30 PET/MRI in Neurological Disease: Imaging-based markers of brain metabolism and function
Audrey Fan, Stanford University
- 9:30-9:45 Take a deep breath – physiologically induced field fluctuations in spinal cord magnetic resonance imaging at ultra-high field
Johanna Vannesjo, Oxford University
- 9:45-10:00 Predicting Autism Behavioral Treatment Response from Baseline Functional MRI
Nicha (Chitphakdithai) Dvornek, Yale University
- 10:00-10:15 Detection and Delineation of Head and Neck Cancer with Hyperspectral Imaging and Machine Learning
Guolan Lu, Georgia Tech
- 10:15-10:30 A Portable Bioimpedance Spectroscopy Measurement System for Congestive Heart Failure Management
Maggie Delano, MIT
- 10:30-10:45 Coffee break
- 10:45-11:00 A paper-based diagnostic platform for analysis of the human gut microbiome
Melissa Takahashi, MIT
- 11:00-11:15 Electrospun Fibers for HIV Prevention
Anna Blakney, University of Washington
- 11:15-11:30 Targeted Nanosystems as Precision Tools for Diagnosis and Therapy in Ovarian Cancer
Ester Kwon, MIT



- 11:30-12:30 Navigating Careers in Biomedical
Tyler Jacks
- 12:30-1:30 Lunch
- 1:30-1:45 Genetic circuits for control of adoptive T cell therapy
Deboki Chakravarti, Boston University
- 1:45-2:00 Data-driven Mechanistic Models for T cell Receptor Proximal Signaling
Maria Frushicheva, MIT
- 2:00-2:15 Predicting evolution: from influenza to cancer
Marta Luksza, Institute for Advanced Study
- 2:15-2:30 mAGNETs exploit differential microRNA profiles to target the expression of virally transduced transgenes to specific neural subtypes in the rodent brain
Marianna Keaveney, Boston University
- 2:30-2:45 Determination of developmental phosphate transport mechanisms
Mary Wallingford, University of Washington
- 2:45-3:15 Coffee break
- 3:15-3:30 Macrophages Drive Damage in the Spleen During HIV/SIV Infection
Dionna Williams, Johns Hopkins University
- 3:30-3:45 Designing Injectable Materials for Cell-Based Spinal Cord Injury Therapies
Laura Marquardt, Stanford University
- 3:45-4:00 Functional conduits of human organs engineered from induced pluripotent stem cells
Samira Musah, Harvard University
- 4:00-4:15 Engineering a Vascularized Anisotropic Human Induced Stem Cell-Derived Cardiac Patch
Maureen Wanjare, Stanford University
- 4:15-4:30 Writing in the Disciplines for Biomedical Engineers
Jordan Trachtenberg, Rice University



- 4:30-5:30 Junior faculty panel
Thomas Heldt, Angela Koehler, Paul Blainey, Alex K. Shalek, Michael Birnbaum, Kwanghun Chung
- 6pm Dinner at Catalyst

November 10

- 8:30-9:30 Breakfast with senior women faculty
Polina Golland, Martha Gray, Hazel Sive, Leona Samson, Jacqueline Lees, Paula Hammond, Krystyn Van Vliet
- 9:30-12:30 Interview skills workshop
HFP consulting
- 12:30-1:30 Lunch
- 1:30-2:15 Navigating Careers in Biomedical
Arup Chakraborty & Leona Samson
- 2:15-3:00 How to get a faculty position
Polina Golland
- 3:00-3:30 Final remarks and feedback
Martha Gray and Polina Golland