



NORTHERN CALIFORNIA CHAPTER  
AMERICAN ASSOCIATION *of* PHYSICISTS IN MEDICINE

# Young Investigators Symposium

May 11, 2018

*at the*

Gladys Valley Hall (Vet Med Instructional Facility)  
*University of California at Davis, School of Veterinary Medicine*

## **WINNERS**

### **PRESENTATIONS: GRADUATE STUDENTS:**

1. **First Place:** "Magnetic Particle Imaging-Guided Heating in Vivo Using Gradient Fields for Arbitrary Localization of Magnetic Hyperthermia Therapy" Zhi Wei Tay, UC Berkeley
2. **Second Place:** "Myocardial Creatine is Reduced in Obese Adults Despite Preserved Function: A Cardiac Chemical Exchange Saturation Transfer MRI Study". Wissam AlGhuraibawi. UC Berkeley
3. **Third Place:** "Development of a focused X-ray luminescence tomography (FXLT) system" Michael C. Lun, Dept. of Bioengineering, School of Engineering, University of California, Merced

### **PRESENTATIONS: POST-DOCTORAL SCHOLARS:**

1. **First Place:** "Development of the Beta Microscope for Whole-Tumor Cellular-Resolution Imaging of PET Tracers", Dr. Justin Klein, Stanford University
2. **Second Place:** "Imaging Bacterial Infection of the Heart with 6'-[18F]-Fluoromaltotriose PET/CT", Dr. Mirwais Wardak, Department of Radiology & Stanford Cardiovascular Institute, Stanford University
3. **Third Place:** "Neuroimaging of Inflammation by TSPO PET: Lessons from A Preclinical Model of Nerve Agent Exposure" Brad Hobson, PhD, Department of Biomedical Engineering, University of California, Davis

### **PRESENTATIONS: MEDICAL PHYSICS RESIDENTS**

1. **First Place:** "Clinical Quality Assurance Applications of a High Spatial Resolution Diode Array for Small Field Dosimetry", Mareike Held, PhD, Radiation Oncology UCSF
2. **Second Place:** "Novel tungsten filled 3D Printed Electron Beam Shaping Devices: Design and Evaluation", Lawrie Skinner, PhD, Dept of Radiation Oncology, Stanford University

### **SLAM COMPETITION:**

1. **First Place:** "Netflix instead of Anesthesia: Radio-transparent Screens for patient relaxation, translation, and feedback" Lawrie Skinner, PhD, Dept of Radiation Oncology, Stanford University