

Thursday, May 12, 2016

8:00 - 4:00 pm

Location: Caltech Keck Center Conference Room

Caltech-HMRI/DEI/JPL Collaborative Workshop: From the Lab to the Surgery Room

| Time | Talk |
|-----------------------|--|
| 8:00-8:30 am | Continental Breakfast |
| 8:30-8:40 am | Introduction: Yu Chong Tai |
| 8:40-9:00 am | Marie Csete, HMRI/Caltech: “Major Unmet Needs and Opportunities for Pasadena Medical Research” |
| 9:20-9:40 am | Alfredo Sadun, DEI: “Mitochondria and why their dysfunction blinds” |
| 9:00-9:20 am | Vas Sadda / Jewel Hu, DEI: “Imaging and Image Analysis in Retinal Disease” |
| 9:40-10:00 am | Harish Manohara, JPL: “Overview: Medical programs at JPL” |
| 10:00-10:20 am | Chris Webster, JPL: “Overview: Micro Devices Lab (MDL) Activities” |
| 10:20-10:40 am | Bob Kloner, HMRI: “Novel Approaches to Cardiac Assist Devices” |
| 10:40-11:00 am | Jim Sonner, HMRI: “The Case for Continuous Oxygen and pH Monitors in ICUs and ORs” |
| 11:00-11:20 am | Kevin King, HMRI/USC: “Interrogating the Brain and Brain Vasculature with MRI” |
| 11:20-11:40 am | Howard Kaufman, HMRI/HMH: “Multimodal Endoscopic Biopsy of Colon Lesions” |
| 11:40- noon | Robert Grubbs, Caltech: “New Materials for Medical Applications.” |
| 12:00-12:30 pm | Lunch |
| 12:30-12:50 pm | Mikhail Shapiro, Caltech: “Molecular engineering for non-invasive imaging and control of cellular diagnostics and therapeutics” |

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| 12:50-1:10 pm | Yu-Chong Tai, Caltech: “Micro Medical Devices” |
| 1:10-1:30 pm | Julia Greer, Caltech: “Nano-architected materials for biomedical applications” |
| 1:30-1:50 pm | Changhuei Yang, Caltech: “Computational imaging for microscopy and retinal photography.” |
| 1:50-2:05 pm | Alex Huang, DEI: “Structure and Function of Aqueous Humor Outflow” |
| 2:05-2:20 pm | Ram Kannan, DEI: “Novel roles for alpha crystallin in retinal function and disease” |
| 2:20-2:35 pm | Deming Sun, DEI: “Pathogenesis of Ocular Inflammation” |
| 2:35-2:50 pm | James Tan, DEI: “Contractility of aqueous humor drainage” |
| 2:50-3:10 pm | Mike Harrington, HMRI: “Engineering approaches for common conditions like migraine, depression or anxiety” |
| 3:10-3:30 pm | Andrea Loewendorf, HMRI: “Immune Basis of Pre-Eclampsia” |
| 3:30-4:00 pm | Wrap-up |