

## Lester Wolfe Workshop in Laser Biomedicine

# “Optical imaging in cancer: from the bench to the bedside”

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Optical imaging of cancer is an increasingly powerful addition to the biological and biomedical toolbox. Optical imaging at the microscopic scale in animal models can help elucidate basic issues in cancer biology. Fluorescence imaging at a more macroscopic scale is being applied to guide surgery in the clinic. This workshop will highlight developments and applications of optical imaging at the bench in animals models, and in the clinic, highlighting recent developments in using near infrared light for image-guided surgery.

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### **Probing the tumor microenvironment by intravital microscopy**

Dai Fukumura, Beth Israel Deaconess Medical Center

### **Designing quantum dots for imaging cancer *in vivo***

Moungi Bawendi, Massachusetts Institute of Technology

### **Multi-Modal functional Optical and Structural X-Ray Breast Imaging**

David Boas, Massachusetts General Hospital

### **Invisible Near-Infrared Light for Image-Guided Surgery**

John Frangioni, Beth Israel Deaconess Medical Center and Harvard Medical School

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Tuesday, November 29, 2011, 3:30-6:00 PM

Massachusetts Institute of Technology

Grier Room, 34-401

77 Massachusetts Avenue, Cambridge

Refreshments served at 3:00 PM

Sponsored by the G. R. Harrison Spectroscopy Laboratory, MIT, MGH Wellman Laboratories, the Harvard-MIT Division of Health Sciences and Technology, and the Center for the Integration of Medicine and Innovative Technology (CIMIT)