

## HOTEL ACCOMODATIONS:

Special rates of **\$189.00 per room per night** have been reserved for our conference participants at the Sheraton Palo Alto. Rates are for single or double occupancy and are subject to tax. To receive this special rate, please make your reservation no later than October 10th, 2006. After October 10th, rooms at our discount rates cannot be guaranteed.

Rooms at these special rates have been reserved for attendees on a first come, first served basis and may sell out before the cut-off date. Don't be disappointed by waiting too long – reserve your room now by contacting Sheraton Palo Alto Reservations Department. Phone: 1-800-325-3535, or (650) 328-2800. Please identify yourself as a participant of the Stanford Small Animal conference.

You can also book online: <http://www.starwoodmeeting.com/Book/radiologycme>  
Sheraton Palo Alto Hotel  
625 El Camino Real, Palo Alto, CA 94301  
650-328-2800

**ACCREDITATION:** NO CME offered.

## REGISTRATION FEES:

Full Course: 4 Days of Lectures and Demos (Breakfast/Lunch each day) - **\$545**  
Lectures only - 2 days (breakfast/lunch day one and two only) - **\$250**

Website: Please go to <http://radiologycme.stanford.edu> to register and sign up for the Small Animal Imaging Demonstrations.

Questions regarding the course and registration please call Stanford Radiology Continuing Medical Education Program at 888-556-2230 or email

[radiologycme@med.stanford.edu](mailto:radiologycme@med.stanford.edu)

*Due to space limitations in the Small Animal Imaging Center, the imaging demonstration portion is limited to a maximum of 80 participants.*

**CANCELLATION POLICY:** Full refunds, less a \$75 administrative service charge, will be made to those providing written notification of withdrawal by October 15th, 2006. After that date, no refunds will be given.

## ACKNOWLEDGEMENTS :

*We gratefully appreciate the generous support from...*

Caliper Life Sciences

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Olympus America

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GE Healthcare

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Summit Anesthesia

Varian, Inc.

VisEn Medical, Inc.

For complete program, registration and accommodation details, visit: <http://radiologycme.stanford.edu>

# SMALL ANIMAL IMAGING WORKSHOP

## AT STANFORD

Clark Center, Stanford University,

Stanford, California

November 15-18, 2006



**MIPS**

Molecular Imaging  
Program at Stanford

### Who will benefit:

Physicians and scientists interested in pre-clinical molecular imaging research and applications in biomedicine.

### Objectives:

- Learn how researchers use small animal imaging systems to study disease non-invasively and aid in the discovery, development, and monitoring of novel treatments.
- Participate in in vivo small animal imaging demonstrations and live animal models of disease using the latest modalities installed at Stanford's Clark Center Small Animal Imaging Facility.

Topics Included:

- Small Animal Imaging Instrumentation
- Molecular Imaging Probes, Targets, Assays, and Applications
- Small Animal Handling

### Program:

Program Overview

Day 1: All Day: Lectures by Select Industry Representatives

Day 2: All Day: Lectures by Stanford Faculty

Day 3: All Day: In Vivo/Small Animal Imaging Demonstrations

Day 4: All Day: In Vivo/Small Animal Imaging Demonstrations

Due to space limitations in the Small Animal Imaging Center, the imaging demonstration portion is limited to a maximum of 80 participants.

### Imaging Systems:

Workshop Demonstrations to include the following Imaging Systems:

- Optical Imaging
- Bioluminescence and fluorescence imaging/tomography
- Fiber-based microscopy
- Radionuclide Imaging
- PET
- SPECT
- X-ray CT
- Magnetic Resonance
- Ultrasound



Stanford University

School of Medicine

## Course Director:

Craig S. Levin, Ph.D.  
Associate Professor of Radiology  
Stanford University  
Molecular Imaging Program at Stanford

### Stanford Faculty:

Sandip Biswal, M.D.  
Assistant Professor of Radiology  
Molecular Imaging Program at Stanford (MIPS)

Francis G. Blankenberg, M.D.  
Associate Professor of Radiology & Pediatrics

Xiaoyuan Shawn Chen, Ph.D.  
Assistant Professor of Radiology

Christopher Contag, Ph.D.  
Co-Director, MIPS, Associate Professor  
Dept of Pediatrics, Radiology, Microbiology &  
Immunology

Timothy Doyle, Ph.D.  
Scientific Director, Small Animal Imaging  
Facility, MIPS

Rebecca Fahrig, Ph.D.  
Assistant Professor of Radiology

Dean Felsher, Ph.D.  
Asst Professor of Medicine (Oncology) and of  
Pathology

Sanjiv Sam Gambhir, M.D., Ph.D.  
Director, MIPS  
Professor, Dept of Radiology and  
Bioengineering, Division Chief, Nuclear Medicine

Edward Graves, Ph.D.  
Asst Professor of Radiation Oncology

Shay Keren, Ph.D.  
Post-doctoral Fellow, MIPS

Butrus T. Khuri-Yakub PhD  
Professor of Electrical Engineering

Craig S. Levin, Ph.D.  
Associate Professor of Radiology

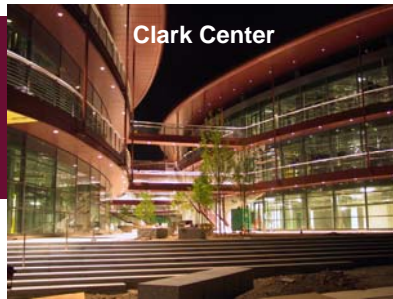
Michael V. McConnell, Ph.D.  
Associate Professor of Medicine  
Molecular and Cellular Physiology and  
Electrical Engineering (by courtesy)

Mark Schnitzer, Ph.D.  
Assistant Professor of Biological Sciences and  
of Applied Physics

Daniel M Spielman, Ph.D.  
Associate Professor of Radiology

Jianghong Rao, M.D.  
Assistant Professor, MIPS

Joseph Wu, M.D., Ph.D.  
Clinical Instructor, MIPS



Clark Center

## Wednesday, November 15, 2006 – Continued

### RADIONUCLIDE IMAGING

**1:00-1:15 pm** Radionuclide Imaging Physics and Instrumentation: Brief overview, Craig S. Levin, Ph.D.  
**1:20-1:40 pm** PET (SIEMENS PRECLINICAL)  
**1:45-2:05 pm** Small Animal PET Phoswich Technology, Gilberto Prudencio, GE Healthcare  
**2:10-2:30 pm** Tri-Modality Imaging, Dr. Samir Chowdhury, Gamma Medica  
**2:35-2:55 pm** The Nanospect/CT: A Four-headed Multi-Pinhole SPECT System for Imaging Small Animals with Submillimeter Spatial Resolution, Jack Hoppin, BioScan  
**3:00-3:35 pm** Coffee Break/Exhibits

### X-RAY CT

**3:35-3:50 pm** X-ray Imaging Physics and Instrumentation: Brief overview, Rebecca Fahrig Ph.D.  
**3:55-4:15 pm** Small Animal CT: Technology and Applications, Paul Picot, GE Healthcare

### ULTRASOUND IMAGING

**4:0-4:35 pm** Ultrasound Imaging Physics and Instrumentation: Brief overview, Pierre Khuri-Yakub, Ph.D.  
**4:40-5:00 pm** High-Resolution in vivo Real-Time Imaging for Small Animal Research, Catherine Theodoropoulos, Visual Sonics

### MAGNETIC RESONANCE IMAGING

**5:05-5:20 pm** Magnetic Resonance Imaging Physics and Instrumentation: Brief Overview, Daniel M. Spielman, PhD  
**5:25-5:45 pm** MRI for Small Animal Imaging, Alan Rath, Ph.D., Varian Inc.

## Thursday, November 16, 2006 – Sheraton Hotel, Palo Alto

### Section III. Research Lectures: Small Animal Imaging Probes, Targets, Assays, and Applications

**7:30-8:30 am** Breakfast  
**8:00-8:25 am** Imaging of Intracellular Protein Networks in Living Subjects, Sanjiv Sam Gambhir, M.D., Ph.D.  
**8:35-9:00 am** Christopher Contag, Ph.D.  
**9:10-9:35 am** Multi-modality Imaging of Stem Cell Transplantation, Joseph Wu, M.D., Ph.D.  
**9:45-10:10 am** Multi-modality Imaging of Vascular Disease, Michael V. McConnell, Ph.D.  
**10:15-10:40 am** Coffee Break  
**10:45-11:10 am** PET Imaging of Angiogenesis Markers, Xiaoyuan Shawn Chen, Ph.D.  
**11:20-11:45 am** Molecular Imaging: No Bones About It, Sandip Biswal, M.D.  
**11:55 am-12:20 pm** In vivo Imaging with Quantum Dots-based Nanoprobes, Jianghong Rao, M.D.  
**12:30-1:40 pm Lunch**  
**1:40-2:05 pm** Multi-modality Imaging of Tumoral Hypoxia and Hypoxia-inducible Physiology, Edward Graves, Ph.D.  
**2:15-2:40 pm** Imaging Death and Resurrection of Cancer, Dean Felsher, Ph.D.  
**2:50-3:15 pm** I am Not a Mouse Doctor: Clinical Imaging of Cellular Stress and Apoptosis using Radiolabeled Annexin V, Francis G. Blankenberg, M.D.  
**3:20-3:45 pm** Coffee Break  
**3:45-4:10 pm** Fiber Optic Fluorescence Imaging, Mark Schnitzer, Ph.D.  
**4:20-4:50 pm** Visit exhibit booths

### Section IV. Small Animal Imaging Research Facility Issues

**4:50-5:15 pm** Running a Small animal Imaging Facility, Timothy Doyle, Ph.D.  
**5:20-5:45 pm** Small Animal Handling Care and Use in Research, Dr. Manny Garcia  
**5:50-6:15 pm** Anesthesia—It's a Gas! Jim Houts Summit Anesthesia Solutions

## Friday and Sat. – Nov. 17 & 18, 2006 — Clark Center, Stanford

Note: There are a total of eight Instrumentation Demonstration Sessions planned for Friday and Saturday. Due to space limitations, each registrant will be placed in six of these eight sessions.

**7:30-8:30 am** Continental Breakfast  
**8:30-10:00 am** Small Animal Imaging Instrumentation Demonstrations - Session  
**10:00-10:30 am** Coffee Break  
**10:30-12:00 pm** In Small Animal Imaging Instrumentation Demonstrations - Session  
**12:00-1:00 pm Lunch**  
**1:00-2:30 pm** Small Animal Imaging Instrumentation Demonstrations - Session  
**2:30-3:00 pm Coffee Break**  
**3:00-4:30 pm** Small Animal Imaging Instrumentation Demonstrations - Session

## Wednesday, November 15, 2006 — Sheraton Hotel, Palo Alto

**7:30-8:30 am** Breakfast/Registration/Equipment demonstration sign-up/Vendor check-in

### Section I. Introduction

**8:30-8:40 am** Introduction to the small animal imaging workshop at Stanford, Craig S. Levin, PhD  
**8:40-8:50 am** Overview of molecular imaging program at Stanford, Sanjiv Sam Gambhir, M.D., Ph.D.

### Section II. Industry perspective: Small animal imaging instrumentation and applications

### OPTICAL IMAGING

**8:50-9:05 am** Optical Imaging Physics and Instrumentation: Brief overview, Craig S. Levin, Ph.D.  
**9:05-9:25 am** IVIS Spectrum: Advanced Small Animal Imaging of Fluorescent and Bioluminescent Probes, Brad Rice, Caliper  
**9:30-9:50 am** Spectral fluorescence imaging: James Mansfield, CRI  
**9:55-10:35 am** Coffee break and Exhibits  
**10:40-11:00 am** Time Domain Fluorescence Optical Imaging, Mike Walters, GE Healthcare  
**11:05-11:25 pm** Streamlined in vivo microscopy with Cellvizio, Sacha Loiseau, Mauna Kea Technologies  
**11:30-11:50 pm** Advances in Multimodal Small Animal Imaging, Dr. Douglas O.S. Wood, PhD, Kodak  
**11:50-1:00 pm** Lunch/Exhibits