Intraoperative Imaging Technologies for Cancer Detection and Treatment

Friday, October 7, 2016

Conference Location:
Memorial Sloan Kettering Cancer Center
Rockefeller Research Laboratories
430 67th Street, New York, NY, 10065

A Cutting Edge Overview on the Progress & Future of Intraoperative Imaging Technologies.
Course Overview

The overall goal of the course is to update the learner on the progress made in the area of intraoperative imaging technologies for oncology.

This course is directed towards surgical oncologists, radiologists, pathologists, engineers, research scientists, technologists.

EDUCATIONAL OBJECTIVES

- Increase familiarity with available probe-device developments and software analysis tools for surgical use.
- Identify and implement appropriate intraoperative imaging strategies that can be leveraged to address specific biological and clinical questions/applications and to inform clinical trial designs.
- Facilitate integration of new intraoperative tools into standard surgical practice.

TARGET AUDIENCE

Surgical oncologists, radiologists, pathologists, researchers, technologists.

www.mskcc.org/intraoperativecourse
Course Faculty

**MSK COURSE DIRECTORS**

Nadeem R. Abu-Rustum, MD, FACOG, FACS  
Chief, Gynecology Service;  
Vice Chair for Technology Development,  
Department of Surgery;  
Avon Chair in Gynecologic Oncology

Michelle S. Bradbury, MD, PhD  
Director, Intraoperative Imaging, Radiology;  
Co-Chair, Innovation & Technology Team;  
Co-Director, NCI MSKCC-Cornell Center for  
Translation of Cancer Nanomedicines,  
Department of Radiology;  
Associate Professor, Gerstner Sloan Kettering  
Graduate School of Biomedical Sciences

**MSK FACULTY**

Prasad Adusumilli, MD  
Deputy Chief, Thoracic Service,  
Department of Surgery

Jan Grimm, MD, PhD  
Associate Member,  
Mol Pharmacology Program;  
SKI Associate Professor,  
Gerstner Sloan Kettering Graduate School

Krishna Juluru, MD  
Associate Member;  
Associate Attending Radiologist;  
Associate Professor,  
Department of Radiology

Moritz Kircher, MD, PhD  
Associate Member;  
Associate Attending Radiologist;  
Associate Professor,  
Department of Radiology

Jason Lewis, PhD  
Emily Tow Jackson Chair in Oncology;  
Vice Chair for Research,  
Department of Radiology;  
Chief Attending, Radiochemistry  
and Imaging Sciences Service

Lee McDonald, PhD  
Core Facility Head,  
Investigational Products Core

Snehal Patel, MD  
Attending,  
Department of Surgery

Milind Rajadhyaksha, PhD  
Associate Member,  
Department of Medicine

Thomas Reiner, PhD  
Associate Member,  
Department of Radiology;  
Associate Professor,  
Gerstner Sloan Kettering Graduate School

Amber Simpson, PhD  
Assistant Attending,  
Department of Surgery

**MSK OPENING REMARKS**

Hedvig Hricak, MD, PhD, Dr(hc)  
Chair, Department of Radiology  
Carroll and Milton Petrie Chair

Peter T. Scardino, MD  
Chairman, Department of Surgery  
The David H. Koch Chair

**INVITED FACULTY**

Matthew S. Bogyo, PhD  
Professor, Department of Pathology,  
Stanford University School of Medicine

Keyvan Farahani, PhD  
Program Director, Imaging Guided  
Intervention Branch, Cancer Imaging Program,  
National Cancer Institute

Piotr Grodzinski, PhD  
Director, NCI Office of Cancer  
Nanotechnology Research,  
National Cancer Institute

William Haulbrook, PhD, JD  
Partner, Choate Hall & Stewart

Christina Liu, PhD, PE  
Program Director, NCI Office of  
Cancer Nanotechnology Research  
National Cancer Institute

Brian Reese, PhD, MBA, JD  
Choate Hall & Stewart

Eben Rosenthal, MD  
Professor of Otolaryngology and Radiology,  
Ann & John Doerr Medical Director,  
Stanford Cancer Center
Scientific Agenda

8:00-8:30 am  BREAKFAST
8:30-8:45 am  Opening Remarks  
Hedvig Hricak, MD, PhD, Dr(hc)  
Peter T. Scardino, MD
8:45-9:00 am  Cancer Nanotechnology Research  
Piotr Grodzinski, PhD  
Christina Liu, PhD, PE
9:00-9:20 am  Keynote Address and Special Lectureship  
International Society of Image-Guided Surgery  
Eben Rosenthal, MD

Probes & Novel Image Guidance
MODERATOR: Michelle Bradbury, MD, PhD
9:20-9:40 am  Introduction to Intraoperative Imaging – a 20 minute Primer  
Jason Lewis, PhD
9:40-10:00 am  Clinically Translated C Dots for Molecularly Targeted Treatment of Nodal Disease and Peripheral Nerve Mapping  
Michelle Bradbury, MD, PhD
10:00-10:20 am  Interoperative Imaging of Oral Cancer with PARP1-Targeted Tracers  
Thomas Reiner, PhD
10:20-10:40 am  Intraoperative Image Guided Drug Delivery  
Keyvan Farahani, PhD
10:40-11:00 am  Discussion
11:00-11:20 am  BREAK
11:20-11:40 am  ICG for Sentinel Node Mapping in Gynecologic Cancers  
Nadeem R. Abu-Rustum, MD, FACOG, FACS
11:40-12:00 pm  New Approaches to Imaging Radio Tracers During Surgery  
Jan Grimm, MD, PhD
12:00-12:20 pm  Raman Nanoparticles for High Precision Cancer Imaging and Theranostics  
Moritz Kircher, MD, PhD
12:20-12:40 pm  Imaging Tumor Margins Using Small Molecule Probes of Protease Activity  
Matthew S. Bogyo, PhD
12:40-1:00 pm  Discussion
1:00-2:00 pm  LUNCH
Device Development & Image Analysis Tools
MODERATOR: Nadeem R. Abu-Rustum, MD, FACOG, FACS

2:00-2:20 pm  Peri-Operative Confocal Imaging-Guided Treatment of Basal Cell Carcinomas - for Mohs Surgery, Laser Ablation
Milind Rajadhyaksha, PhD

2:20-2:40 pm  In Vivo Imaging for Head and Neck Cancer Surgery
Snehal Patel, MD

2:40-3:00 pm  WiPOX – Wireless Pulse Oximetry for Intra-Operative Tissue Oxygenation Monitoring
Prasad Adusumilli, MD

3:00-3:20 pm  Development and Clinical Translation of Image-Guided Liver Surgery Systems
Amber Simpson, PhD

3:20-3:40 pm  Discussion

3:40-4:00 pm  BREAK

4:00-4:20 pm  Opportunities for Using Advanced Visualization Tools in the IntraOperative Setting
Krishna Juluru, MD

4:20-4:40 pm  IND and IDE Regulatory Issues for Intraoperative Products
Lee McDonald, PhD

4:40-5:00 pm  Patent Claim Strategies to Maximize Portfolio Value
William Haulbrook, PhD, JD

5:00-5:20 pm  Patent Issues for the Clinical Investigator – What, Why & How
Brian Reese, PhD, MBA, JD

5:20-5:40 pm  Concluding Remarks
REGISTRATION
Registration includes continental breakfast, lunch, and refreshment breaks. Please contact us at least one week prior to the course if you have any special dietary needs.

Registration is complimentary for MSK staff who wish to attend this course. However, you must register online by visiting the Continuing Medical Education page on OneMSK.

COURSE DESIGN
This course is comprised of lectures and interactive audience participation encouraging the intellectual exchange of ideas between faculty and participants.

ACCOMMODATIONS
For information on hotels in the area of MSKCC with discounted rates, please visit: www.mskcc.org/accommodations.

ACCREDITATION STATEMENT
MSK is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

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MSK designates this live activity for a maximum of 7.0 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity. The AMA has determined that physicians not licensed in the United States but who participate in this CME activity are eligible for 7.0 AMA PRA Category 1 Credits™.

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It is the policy of MSK to make every effort to insure balance, independence, objectivity, and scientific rigor in all continuing medical education activities which it sponsors as an ACCME accredited provider. In accordance with ACCME guidelines and standards, all faculty participating in an activity sponsored by MSK are expected to disclose any significant financial interest or other relationship with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services which are discussed by the faculty members in an educational presentation. As required by the ACCME, when an unlabeled use of a commercial product or an investigational use not yet approved for any purpose is discussed during an educational activity, MSK requires the speaker to disclose that the product is not labeled for the use under discussion or that the product is still investigational.

CONTACT
Continuing Medical Education
Memorial Sloan Kettering Cancer Center
633 Third Avenue, 12th Floor
New York, NY 10017
cme@mskcc.org

*Industry Members: Registration is for educational purposes only. Marketing, sales, and promotion of products and services are prohibited at CME activities.

Special CME Discount
For discounted registration in both the Intraoperative Imaging Course and the Ovarian Course taking place at MSK, please visit the conference website for more information.