

The Memorial Hospital Alumni Society Presents

# Targeting Tumors with Radiation: Integrating Technological and Biological Advances

October 16–17, 2014



Memorial Sloan Kettering  
Cancer Center

# Targeting Tumors with Radiation: Integrating Technological and Biological Advances

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## Course Overview

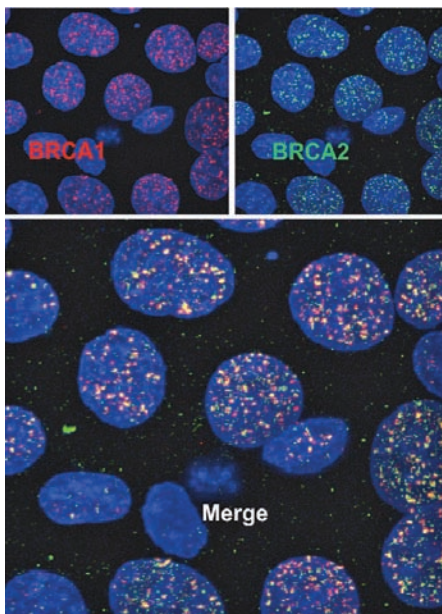
The aim of the two-day program, presented by Memorial Sloan Kettering staff and invited speakers, is to highlight developments in the clinical care of patients and provide useful insights into ongoing cancer research at the Center.

## Target Audience

The intended audience is comprised of members of the Memorial Hospital Alumni Society (physicians who have trained at Memorial Sloan Kettering for six months or more and staff members who have been at MSK for six months or more), any current medical staff, and physicians trained elsewhere who wish to attend. These physicians include medical oncologists, pathologists, radiation oncologists, surgeons, and allied scientists.

## Educational Objectives

The course objective is to advance and disseminate knowledge of cancer, with the sharing of objectives between



community physicians and the Center. The goal is also to inform primary care clinicians about current approaches to the diagnosis and treatment of cancers.

## Course Design

This course is comprised of lectures and discussions, encouraging the exchange of ideas between faculty and participants.

## Accreditation

Memorial Sloan Kettering is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

## CME Credit Designation Statement

Memorial Sloan Kettering designates this conference for a maximum of 14 hours in Category 1 credit toward the AMA Physician's Recognition Award™. Each physician should claim only those hours of credit he/she actually spent in the conference.

### Disclosure Policy Statement

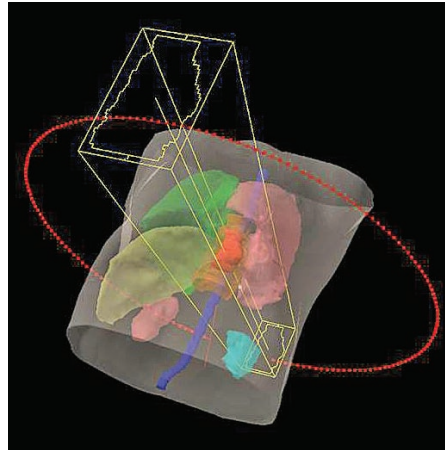
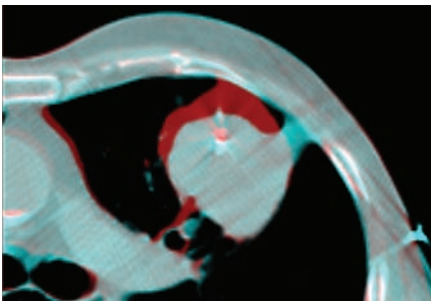
Memorial Sloan Kettering relies on faculty participants in its CME Program to provide educational information that is objective and as free from bias as possible. In accordance with the nationally accepted guidelines, faculty members are asked to indicate any commercial relationship that might be perceived as a real or apparent conflict of interest.

### Registration

Pre-registration is preferred. The fee for Alumni Society members is \$100.00 for the two-day program, \$60.00 for one day (pathologists only), and \$150.00 for outside physicians. Registration for MSK staff (with ID) is free of charge. Registration will begin at 7:20 a.m. in the lobby of the Rockefeller Research Laboratories. The fee includes breakfast and buffet luncheon Thursday, two coffee breaks, and CME certification.

### Alumni Reception and Dinner Dance

The Annual Reception and Dinner Dance takes place at the ONE UN New York, located at United Nations Plaza, the evening of Thursday, October 16, 2014. Tickets are \$125 per person and are reserved for alumni, staff, and their guests only. Current Memorial Sloan Kettering fellows are invited to attend at a reduced rate and will need to reserve a ticket with the alumni office.



### Pathology Alumni Annual Meeting

This meeting commences Friday, October 17, 2014, at 9:30 a.m. It is open to all Memorial Hospital alumni. The Annual Pathology Alumni Dinner will be held at the 21 Club at 21 West 52nd Street.

To purchase tickets, please contact Donna Bauer in the Pathology Department at 212-639-8410 or [bauerd@mskcc.org](mailto:bauerd@mskcc.org).

### Course Location

The Scientific Sessions and the Pathology Slide Seminar will be held in the Arlene and Arnold Goldstein Auditorium of the Rockefeller Research Laboratories at 430 East 67th Street.

### Hotel Accommodations

Hotel options can be found on the MSK website: [www.mskcc.org/accommodations](http://www.mskcc.org/accommodations)

### For Further Information

Keith Yearwood  
Manager, Alumni Affairs  
Memorial Sloan Kettering  
633 Third Avenue, 12th Floor  
New York, NY 10017  
646-227-2027  
[yearwook@mskcc.org](mailto:yearwook@mskcc.org)

## SCIENTIFIC AGENDA

### Thursday, October 16, 2014

- 7:00 am Breakfast
- 7:20 am Registration
- 7:50 am Welcome  
**Karyn Goodman, MD**  
Radiation Oncologist  
MSK Department of Radiation Oncology

#### Radiobiology

**Moderator: Simon Powell, MD, PhD**  
Department of Radiation Oncology

- 8:00 am **Simon Powell MD, PhD**  
Department of Radiation Oncology  
“Radiation Damage, DNA Repair and Tumor Microenvironment: A Complex Interaction”
- 8:15 am **Gloria Li, MD**  
Department of Radiation Oncology  
“Targeting the DNA Repair Process to Improve Radiosensitivity”
- 8:30 am **Adriana Haimovitz-Friedman, MD**  
Department of Radiation Oncology  
“Microvascular Changes After High-Dose Radiotherapy”
- 8:45 am **Philip Paty, MD**  
Colorectal Surgery Service  
“Expansion of Stem Cell Compartment in Colorectal Tumorigenesis”

#### Defining Oligometastatic Disease in the Era of Personalized Medicine

**Moderator: Joachim Yahalom, MD**  
Department of Radiation Oncology

- 9:00 am **John Mendelsohn, MD**  
Director of the Khalifa Institute for Personalized Cancer Therapy  
MD Anderson Cancer Center  
“Challenges and Opportunities in Precision Cancer Medicine”
- 9:30 am **Larry Norton, MD**  
Department of Medicine  
“Oligometastatic Disease in Breast Cancer: Does It Exist?”
- 9:45 am **Hedvig Hricak, MD**  
Department of Radiology  
“Novel Imaging Techniques to Identify Oligometastatic Disease”
- 10:00 am **Questions/Panel Discussion**  
John Mendelsohn, MD; Larry Norton, MD; Hedvig Hricak, MD; Joachim Yahalom, MD
- 10:15 am Coffee Break

#### Treating Oligometastatic Disease

**Moderator: Josh Yamada, MD**  
Department of Radiation Oncology

- 10:30 am **Josh Yamada, MD**  
Department of Radiation Oncology  
“Results of Single Fraction High-Dose Radiotherapy for Paraspinal Metastases”
- 10:45 am **Mark Bilsky, MD**  
Department of Neurosurgery  
“New Brachytherapy Approaches for Paraspinal Metastases”
- 11:15 am **Kathryn Beal, MD**  
Department of Radiation Oncology  
“Treating Oligometastatic CNS Disease with SRS”
- 11:30 am **Carlo Greco, MD**  
Champalimaud Foundation, Libson, Portugal  
“Single Fraction High-Dose Radiotherapy: A Growing Clinical Experience”
- 11:45 am **Discussion/Cases**  
Mark Bilsky, MD; Josh Yamada, MD; Kathryn Beal, MD; Carlo Greco, MD
- 12:00 Buffet Lunch
- 1:00 pm **Keynote Speaker: Samuel Hellman, MD**  
University of Chicago  
Pritzker School of Medicine  
“Benefits and Cautions of Using Theory in Clinical Science”

#### Integrating New Physics Techniques

**Moderator: Joseph Deasy, PhD**  
Department of Medical Physics

- 1:30 pm **David Jaffray, PhD**  
Techna Institute  
Princess Margaret Cancer Centre  
“Integrating Novel Physics Techniques into Radiotherapy”
- 2:00 pm **Radhe Mohan, PhD**  
Professor, Department of Radiation Physics  
MD Anderson Cancer Center  
“Targeting Tumors with Protons and Other Particles”
- 2:30 pm **Howard Amols, PhD**  
Senior Lecturer, Department of Radiation Oncology, Columbia University  
“Pitfalls of IGRT: Are We Being Too Clever?”
- 2:45 pm **Can We Improve Targeting and Delivery of Radiotherapy?**  
Margie Hunt, MD; Gikas Mageras, MD; David Jaffray, PhD; Howard Amols, PhD; Ellen Yorke, MD
- 3:00 pm Coffee Break

## Integrating Technology and Biology in Definitive Radiotherapy

**Moderator: Marisa Kollmeier, MD**  
Department of Radiation Oncology

- 3:15 pm **Nancy Lee, MD**  
Department of Radiation Oncology  
“New Radiotherapy Approaches to Definitive Therapy for Head and Neck Cancers”
- 3:30 pm **Marisa Kollmeier, MD**  
Department of Radiation Oncology  
“Dose Escalation for Prostate Cancer”
- 3:45 pm **Joachim Yahalom, MD**  
Department of Radiation Oncology  
“Lymphoma: Where Dose Reduction Works”
- 4:00 pm **Kaled Alektiar, MD**  
Department of Radiation Oncology  
“Advances in Sarcoma Radiotherapy”
- 4:15 pm **Panel/Case Discussion**  
Marisa Kollmeier, MD; Nancy Lee, MD; Joachim Yahalom, MD; Kaled Alektiar, MD

## The Role of SBRT as Definitive Therapy

**Moderator: Alice Ho, MD**  
Department of Radiation Oncology

- 4:30 pm **Andreas Rimmer, MD**  
Department of Radiation Oncology  
“SBRT for Primary Lung Cancer”
- 4:45 pm **Karyn Goodman, MD**  
Department of Radiation Oncology  
“SBRT for Locally Advanced Pancreatic Cancer”
- 5:00 pm **Concluding Remarks:**  
**Karyn Goodman, MD**  
Memorial Sloan Kettering
- 7:00 pm **Annual Alumni Reception and Dinner Dance**  
ONE UN New York  
United Nations Plaza

## Friday, October 17, 2014

### Medical Grand Rounds

- 8:00 am **Speaker: Zvi Fuks, MD**  
The Alfred P. Sloan Chair in Radiation Oncology  
Chair Emeritus of the Department of Radiation Oncology  
“The Endothelial Stress Syndrome: Implications for Tumor Treatment with Radiation and Drugs”

## Presentations from the Department of Pathology

- 9:15 am Welcome  
**David S. Klimstra, MD**  
Chair, Department of Pathology
- 9:20 am **Satish Tickoo, MD**  
“Clear Cell Renal Cell Carcinoma: Conceptual Evolutions, Pre- and Post-TCGA Era”
- 9:45 am **Hikmat Al-Ahmadie, MD**  
“New Insights Into Urothelial Neoplasia”
- 10:10 am Coffee Break
- 10:35 am Introduction of  
Arul M. Chinnaiyan, MD, PhD  
and Presentation of the  
William L. Gerald Award  
**Jorge Reis-Filho, MD, PhD** and  
**David S. Klimstra, MD**
- 10:45 am **The First William L. Gerald Award**  
**Arul M. Chinnaiyan, MD, PhD**  
Director  
Michigan Center for Translational Pathology  
Investigator  
Howard Hughes Medical Institute  
S.P. Hicks Endowed Professor of Pathology  
University of Michigan Medical Center
- 11:30 am Introduction of Thomas M. Ulbright, MD  
and Presentation of the  
Fred W. Stewart Award  
**Victor E. Reuter, MD** and  
**David S. Klimstra, MD**
- 11:40 am **The Thirty-Seventh Fred W. Stewart Award**  
**Thomas M. Ulbright, MD**  
Lawrence M. Roth Professor of Pathology  
Indiana University School of Medicine
- 12:25 pm Lunch Break
- 2:00 pm **Anatomic Pathology Slide Seminar**  
**Moderator: Meera R. Hameed, MD**  
Acting Chief, Surgical Pathology Service
- Case 1. William D. Travis, MD  
Case 2. Melissa Pulitzer, MD  
Case 3. Victor E. Reuter, MD  
Case 4. Olca Basturk, MD
- 3:20 pm Coffee Break
- 3:40 pm Case 5. Edi Brogi, MD, PhD  
Case 6. Sarah Chiang, MD  
Case 7. Yaser R. Hussein, MD  
Case 8. S. Joseph Sirintrapun, MD
- 5:00 pm Adjournment
- 6:00 pm **Pathology Alumni Reception and Dinner**

## COURSE FACULTY

### Program Chairman

#### **Karyn Goodman, MD**

Associate Attending  
Radiation Oncologist  
Department of Radiation Oncology

### Guest Faculty

#### **Arul M. Chinnaiyan, MD, PhD**

Director, Michigan Center for  
Transitional Pathology  
The University of Michigan  
Medical Center

#### **Carlo Greco, MD**

Director, Clinical Research  
Champalimaud Foundation  
Lisbon, Portugal

#### **Samuel Hellman, MD**

Professor, Diagnostic Radiology  
University of Chicago  
Pritzker School of Medicine

#### **David Jaffray, PhD**

Head, Department of  
Radiation Physics  
Princess Margaret Hospital

#### **John Mendelsohn, MD**

Director, Khalifa Institute for  
Personalized Cancer Therapy  
MD Anderson Cancer Center

#### **Radhe Mohan, PhD**

Professor, Radiation Physics  
MD Anderson Cancer Center

#### **Thomas M. Ulbright, MD**

Lawrence M. Roth  
Professor of Pathology  
Indiana University School  
of Medicine

### Faculty

#### **Hikmat Al Ahmadie, MD**

Assistant Attending Pathologist  
Department of Pathology

#### **Kaled Alektiar, MD**

Attending Radiation Oncologist  
Department of Radiation Oncology

#### **Howard Amols, PhD**

Attending Physicist  
Department of Medical Physics

#### **Olca Basturk, MD**

Assistant Attending Pathologist  
Department of Pathology

#### **Kathryn Beal, MD**

Assistant Attending  
Radiation Oncologist  
Department of Radiation Oncology

#### **Mark Bilsky, MD**

Attending Neurosurgeon  
Department of Neurosurgery

#### **Edi Brogi, MD, PhD**

Attending Pathologist  
Department of Pathology

#### **Sarah Chiang, MD**

Assistant Attending Pathologist  
Department of Pathology

#### **Joseph Deasy, PhD**

Attending Physicist, Chair  
Department of Medical Physics

#### **Zvi Fuks, MD**

The Alfred P. Sloan Chair in  
Radiation Oncology  
Chair Emeritus of the  
Department of Radiation Oncology

#### **Adriana Haimovitz- Friedman, MD**

Attending Radiation Biologist  
Department of Radiation Oncology

#### **Meera R. Hameed, MD**

Attending Pathologist and  
Acting Chief  
Surgical Pathology Service  
Department of Pathology

#### **Alice Ho, MD**

Assistant Attending  
Radiation Oncologist  
Department of Radiation Oncology

#### **Hedvig Hricak, MD**

Attending Radiologist and Chair  
Department of Radiology

#### **Margie Hunt, MD**

Attending Physicist  
Chief, Clinical Physics Service  
Department of Medical Physics

#### **Yaser R. Hussein, MD**

Instructor  
Department of Pathology

#### **David S. Klimstra, MD**

Attending Pathologist and Chair  
Department of Pathology

#### **Marisa Kollmeier, MD**

Assistant Attending  
Radiation Oncologist  
Department of Radiation Oncology

#### **Nancy Lee, MD**

Attending Radiation Oncologist  
Department of Radiation Oncology

#### **Gloria Li, MD**

Emeritus, Attending Biophysicist  
Department of Radiation Oncology

#### **Gikas Mageras, MD**

Attending Physicist  
Department of Medical Physics

#### **Larry Norton, MD**

Attending Physician  
Deputy Physician-in-Chief  
for Breast Cancer Programs  
Medical Director,  
Evelyn H. Lauder Breast Center

#### **Philip Paty, MD**

Professor of Surgery  
Weill-Cornell Medical School  
Attending Surgeon  
Colorectal Surgery Service

#### **Simon Powell, MD, PhD**

Attending Radiation Oncologist  
Chair, Department of  
Radiation Oncology

#### **Melissa Pulitzer, MD**

Assistant Attending Pathologist  
Department of Pathology

#### **Jorge Reis-Filho, MD, PhD**

Attending Pathologist  
Department of Pathology  
Affiliate Member  
Human Oncology and Oncogenesis  
Program

#### **Victor E. Reuter, MD**

Attending Pathologist  
Department of Pathology

#### **Andreas Rimner, MD**

Assistant Attending  
Radiation Oncologist and Vice Chair  
Department of Radiation Oncology

#### **S. Joseph Sirintrapun, MD**

Assistant Attending Pathologist  
Department of Pathology

#### **Satish Tickoo, MD**

Attending Pathologist  
Department of Pathology

#### **William D. Travis, MD**

Attending Pathologist  
Department of Pathology

#### **Joachim Yahalom, MD**

Attending Radiation Oncologist  
Department of Radiation Oncology

#### **Josh Yamada, MD**

Associate Attending  
Radiation Oncologist  
Department of Radiation Oncology

#### **Ellen Yorke, MD**

Attending Physicist  
Department of Medical Physics

## REGISTRATION FORM

The Memorial Hospital Alumni Society  
633 Third Avenue, 12th Floor, New York, NY 10017

### I will attend the following activities:

- Two-day meeting @ \$150 (Outside Physicians) \$ \_\_\_\_\_
- Two-day meeting @ \$100 (Alumni Only) \$ \_\_\_\_\_
- One-day meeting @ \$60 (Pathologists Only) \$ \_\_\_\_\_
- Current MSK staff and fellows may attend free of charge.
- Annual Alumni Dinner Dance (Alumni, Staff and Their Guests Only)  
For \_\_\_\_\_ people at \$125 each \$ \_\_\_\_\_
- 2014 Annual Membership Dues: \$80 \$ \_\_\_\_\_
- A gift to the Alumni Society \$ \_\_\_\_\_
- TOTAL \$ \_\_\_\_\_

Name \_\_\_\_\_

Phone number \_\_\_\_\_

Email \_\_\_\_\_

Organization (if appropriate) \_\_\_\_\_

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### Please make your check payable to The Memorial Hospital Alumni Society

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(I authorize MSK to debit my credit card account.)

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### Please enclose with payment and mail to:

Keith Yearwood, Manager, Alumni Affairs  
Memorial Sloan Kettering Cancer Center  
633 Third Avenue, 12th Floor  
New York, NY 10017



**Memorial Sloan Kettering  
Cancer Center**

Office of Alumni Affairs  
633 Third Avenue, 12th Floor  
New York, New York 10017