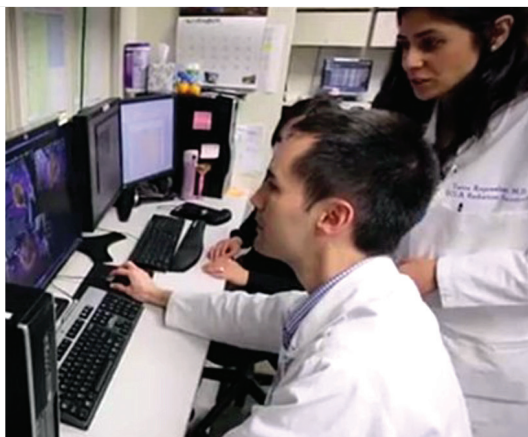




David Geffen  
School of Medicine

# UCLA Radiation Oncology Workshop: Integration of State-of-the-Art Innovations into Clinical Radiation Oncology Practice



**June 9-10, 2017**

Neuroscience Research Building Auditorium (NRB)  
UCLA Campus  
Los Angeles, California

**CME** OFFICE OF  
CONTINUING  
MEDICAL  
EDUCATION

DAVID GEFFEN SCHOOL OF MEDICINE at UCLA

# UCLA Radiation Oncology Workshop: Integration of State-of-the-Art Innovations into Clinical Radiation Oncology Practice

## Course Description:

Radiation therapy is one of the mainstay treatments for cancer. Recent advances have increased the repertoire of tools for radiation oncologists to maximize tumor control and minimize toxicity. These advances include stereotactic body radiation therapy/stereotactic ablative radiation therapy, stereotactic radiosurgery, high-dose-rate brachytherapy, as well as advances in radiation planning and better understanding of biological modifiers that may enhance the effectiveness of radiation therapy when optimally applied. Given the rapid advances in the last 5-10 years for these radiation specific modalities in larger academic centers, adoption of these treatment approaches has disseminated into other radiation oncology clinics. This course will review state-of-the-art radiation treatment strategies and provide a how-to approach to integrate these new treatment modalities into a community radiation oncology practice. Issues regarding treatment volume, treatment dose, fractionation, biological and technological rationale based on evidence will be discussed in order to enhance the confidence of practitioners in their ability to translate these advances into improved patient outcomes in their practices.

## Target Audience:

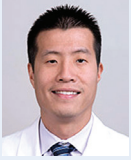
Radiation oncologists, medical physicists, medical oncologists, surgical oncologists, and biologists interested in implementing recent advances related to radiation treatment delivery, integrations of biological and technological advances in cancer care into daily radiation oncology practice, and having exposure to novel approaches in cancer detection, radiation treatment planning, and treatment delivery.

## Course Objectives

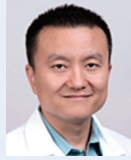
At the conclusion of the course, participants should be better able to:

- List the indications for thoracic SBRT and techniques that offer the best outcome using this technique in early stage lung cancer and thoracic oligometastases
- Discuss the limitation of current motion management strategies and the advantages brought by model based breathing motion management
- List the indications of SBRT and high-dose-rate brachytherapy for prostate cancer and how best to integrate radiation therapy in the management of high-risk prostate cancer
- Deliver the various newer breast irradiation techniques such as accelerated partial breast irradiation, prone breast irradiation, and deep inhale breath-hold technique, and understand their roles in the multi-disciplinary management for breast cancer
- Describe the roles of various radiation modalities for primary and metastatic brain tumors and understand how best to incorporate these techniques for treatment of malignant brain tumors
- Discuss practical considerations in implementing a novel planning and treatment delivery approach using ultra-compact radiation dose distribution
- Recognize the current and future role of MRI in radiation therapy and how to best integrate this newer imaging modality into the current radiation oncology work-flow

## Course Directors



**Percy Lee, MD**  
Associate Professor and Vice  
Chair of Education, UCLA  
Department of Radiation  
Oncology



**Minsong Cao, PhD, DABR**  
Associate Professor, UCLA  
Department of Radiation  
Oncology

## Course Faculty

**Michael Steinberg, MD**

Professor and Chair, UCLA Department of  
Radiation Oncology

**Daniel Low, PhD, DABMP**

Professor and Vice Chair of Physics, UCLA  
Department of Radiation Oncology

**Joanne Weidhaas, MD, PhD, MSM**

Professor and Vice Chair, Division of Molecular  
and Cellular Oncology, UCLA Department of  
Radiation Oncology

**Robert Chin, MD, PhD**

Assistant Professor, UCLA Department of  
Radiation Oncology

**D. Jeffrey Demanes, MD**

Professor Emeritus, UCLA Department of  
Radiation Oncology

**Anusha Kalbasi, MD**

Clinical Instructor, UCLA Department of  
Radiation Oncology

**Christopher King, MD, PhD**

Professor, UCLA Department of Radiation  
Oncology

**James Lamb, PhD, DABR**

Assistant Professor, UCLA Department of  
Radiation Oncology

**William McBride, DSc**

Professor, UCLA Department of Radiation  
Oncology

**Susan McCloskey, MD**

Assistant Professor, UCLA Department of  
Radiation Oncology

**Nicholas Nickols, MD, PhD**

Assistant Professor, UCLA Department of  
Radiation Oncology

**Ann Raldow, MD, MPH**

Assistant Professor, UCLA Department of  
Radiation Oncology

**Dorthe Schaeue, MRes, PhD**

Assistant Professor, UCLA Department of  
Radiation Oncology

**Ke Sheng, PhD, DABR**

Professor, UCLA Department of Radiation  
Oncology

**Erina Vlashi, PhD**

Assistant Professor, UCLA Department of  
Radiation Oncology

### KEYNOTE SPEAKER:

**Brian Kavanagh, MD, MPH**

Professor and Chair, Department of Radiation  
Oncology, University of Colorado School of  
Medicine

# Program Schedule

## FRIDAY, JUNE 9, 2017

- 7:30 Breakfast  
8:00 Welcome  
*Percy Lee, MD and Michael Steinberg, MD*

### Morning Session I

#### THORACIC

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- 8:15 SBRT/SABR for Early Stage NSCLC: Indications and Emerging Trends  
*Percy Lee, MD*
- 8:45 Model Based Breathing Motion Management for Lung Cancer: Replacing 4D-CT  
*Daniel Low, PhD, DABMP*
- 9:15 Immunotherapeutic Advances in Thoracic Tumors  
*Anusha Kalbasi, MD*
- 9:45 Discussion
- 10:00 Coffee Break
- 10:15 Keynote: New Lenses, New Visions for Radiotherapy in the Molecular-Genetic-Immunomodulator Era of Oncology  
*Brian Kavanagh, MD, MPH*

### Morning Session II

#### BIOLOGY

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- 11:15 Danger-Signaling Interfaces: Immunotherapy with Radiation Therapy  
*William McBride, DSc*
- 11:45 Lessons Learned from Immune Monitoring During Clinical Trials  
*Dorthe Schae, MRes, PhD*
- 12:15 Lunch

### Afternoon Session I

#### GU

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- 1:15 SBRT for Prostate Cancer: Techniques, Toxicities and Outcomes for Low to High-Risk Patients  
*Christopher King, MD, PhD*
- 1:45 High Dose Rate Prostate Brachytherapy: A Versatile Tool for Mono, Combination, Focal, and Salvage Therapy  
*D. Jeffrey Demanes, MD*
- 2:15 Radiation as Part of Multi-Modal Approach to Aggressive Prostate Cancer  
*Nicholas Nickols, MD, PhD*
- 2:45 Discussion
- 3:00 Coffee Break

## Afternoon Session II

### BREAST

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- 3:15 Personalized Planning for Breast Radiation Therapy: Tools in the Toolbox  
*Susan McCloskey, MD*
- 3:45 New Genomics and Radiosensitivity in Breast Cancer Therapy  
*Joanne Weidhaas, MD, PhD, MSM*
- 4:15 Discussion
- 4:30 Chair's Lecture: Valuing Value: Radiation Oncology Health Policy in the Era of Affordable Care Act  
*Michael Steinberg, MD and Ann Raldow, MD, MPH*
- 5:30 Adjourn
- 5:45 Reception  
*Luskin Conference Center*

## SATURDAY, JUNE 10, 2017

- 7:30 Breakfast

### Morning Session I

#### CNS

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- 8:00 Brain Metastases: Too Much Versus Too Little  
*Robert Chin, MD, PhD*
- 8:30 New Era of Ultra-Compact Radiation Dose Delivery Using 4pi Radiotherapy for Recurrent High-Grade Gliomas  
*Ke Sheng, PhD, DABR*
- 9:00 Radiotherapy and Glioma Stem Cells  
*Erina Vlashi, PhD*
- 9:30 Discussion
- 9:45 Coffee Break

### Morning Session II

#### MRI IN RADIATION THERAPY

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- 10:00 MRI-Driven Radiation Treatment Planning  
*Minsong Cao, PhD, DABR*
- 10:30 Challenges for MRI-Guided Real-Time Adaptive Radiotherapy: Physics Perspective  
*James Lamb, PhD, DABR*
- 11:00 MRI-Guided Real-Time Adaptive SBRT: Clinical Perspective  
*Percy Lee, MD*
- 11:30 Discussion
- 11:45 Concluding Remarks  
*Percy Lee, MD and Michael Steinberg, MD*
- 12:00 Adjourn

# General Information

## Registration Fees:

Physicians: \$395  
Physicists/Trainees: \$195

## Refunds:

Cancellations must be received in writing by May 24, 2017 and will be subject to a \$75 processing fee. No refunds will be given after May 24, 2017. A full refund will be provided if for any reason the course must be cancelled or rescheduled.

## Enrollment:

**Online:** Go to [www.cme.ucla.edu/](http://www.cme.ucla.edu/) courses and click on UCLA Radiation Oncology Workshop. You may use your MasterCard, Visa, American Express or Discover card to register.

**By Mail:** Use the form attached. Mail to the UCLA Office of Continuing Medical Education David Geffen School of Medicine at UCLA Radiation Oncology Workshop 10920 Wilshire Blvd., Suite 1060 Los Angeles, CA 90024-6512

**By Fax:** Send the completed enrollment form with credit card information and authorizing signature.  
Fax to: (310) 794-2624

**By Phone:** Use your MasterCard, VISA, American Express, or Discover Card.  
Call (310) 794-2620

Please visit our website for other UCLA CME offerings. [www.cme.ucla.edu](http://www.cme.ucla.edu)

## Conference Location

Neuroscience Research Building Auditorium (NRB)  
UCLA Campus  
635 Charles E Young Drive South  
Los Angeles, CA 90095

## Parking and Directions

From the 405 freeway, exit on Wilshire Blvd. East. Proceed on Wilshire Blvd. to Westwood Blvd. and make a left. Proceed north on Westwood Blvd., turn right on Charles E. Young Drive South and continue 1/2 a block. At the stoplight, turn left into Lot 9. There will be a parking attendant selling permits from 6:30-8:30 AM. If you arrive outside of this time frame, please visit the parking kiosk on Westwood Plaza to pay for your parking permit.

Participants are responsible to pay for their own parking charges at a rate of \$12 per vehicle, cash only.

## Suggested Hotel Accommodations:

### Luskin Conference Center

425 Westwood Plaza  
Los Angeles, CA 90049  
Within walking distance  
Reservations: (855) 522-8252

### Hilgard House

927 Hilgard Avenue  
Los Angeles, CA 90024  
Within walking distance  
Reservations: (310) 208-3945

### W Los Angeles - Westwood Hotel

930 Hilgard Avenue  
Los Angeles, CA 90024  
Within walking distance  
Reservations: (310) 208-8765

### UCLA Tiverton House

900 Tiverton Avenue  
Los Angeles, CA 90024  
Within walking distance  
Reservations: (310) 794-0151

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## Accreditation Statement

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA, designates this live activity for a maximum of 11.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This meeting has applied to CAMPEP for approval of 9 Medical Physics Continuing Education Credit (MPCEC) hours.

## Disclosure Statement

The FDA has issued a concept paper that classifies commercial support of scientific and educational programs as promotional unless it can be affirmed that the program is "truly independent" and free of commercial influence. In addition to independence, the FDA requires that non-promotional, commercially supported education be objective, balanced, and scientifically rigorous. The policy further states that all potential conflicts of interest of the CME staff and faculty be fully disclosed to the program's participants. In addition, Accreditation Council for Continuing Medical Education policy now mandates that the sponsor adequately manage all identified potential conflicts of interest prior to the program. We at UCLA fully endorse the letter and spirit of these concepts.

# Registration (Please Print)

Course Title and Number		Registration Fee
UCLA Radiation Oncology Workshop 2017		M167-34
<b>Registration Fees:</b> Physicians: \$395 Physicists/Trainees: \$195  *Breakfast, Refreshments and Lunch will be provided with registration. All attendees are invited to a reception at the Luskin Conference Center immediately following the course on Friday (6/9) evening.		
		<b>TOTAL</b>

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Last four digits of your Social Security Number

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Name (First/Middle/Last)  Male  Female

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Degree Specialty

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 David Geffen School of Medicine at UCLA  
 Radiation Oncology Workshop  
 10920 Wilshire Blvd., Suite 1060  
 Los Angeles, CA 90024

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David Geffen School of Medicine at UCLA  
405 Hilgard Avenue MC 29  
Los Angeles, California 90095-6938

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