

Department of Radiation Oncology
University of California, San Francisco
School of Medicine



University of California
San Francisco

UCSF RADIATION ONCOLOGY UPDATE: PRACTICAL DECISIONS IN THE ERA OF BIG DATA

ST. REGIS HOTEL • SAN FRANCISCO, CALIFORNIA

COURSE DIRECTORS

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Department of Radiation Oncology

Timothy Solberg, PhD

Professor and Chief of Physics
Department of Radiation Oncology

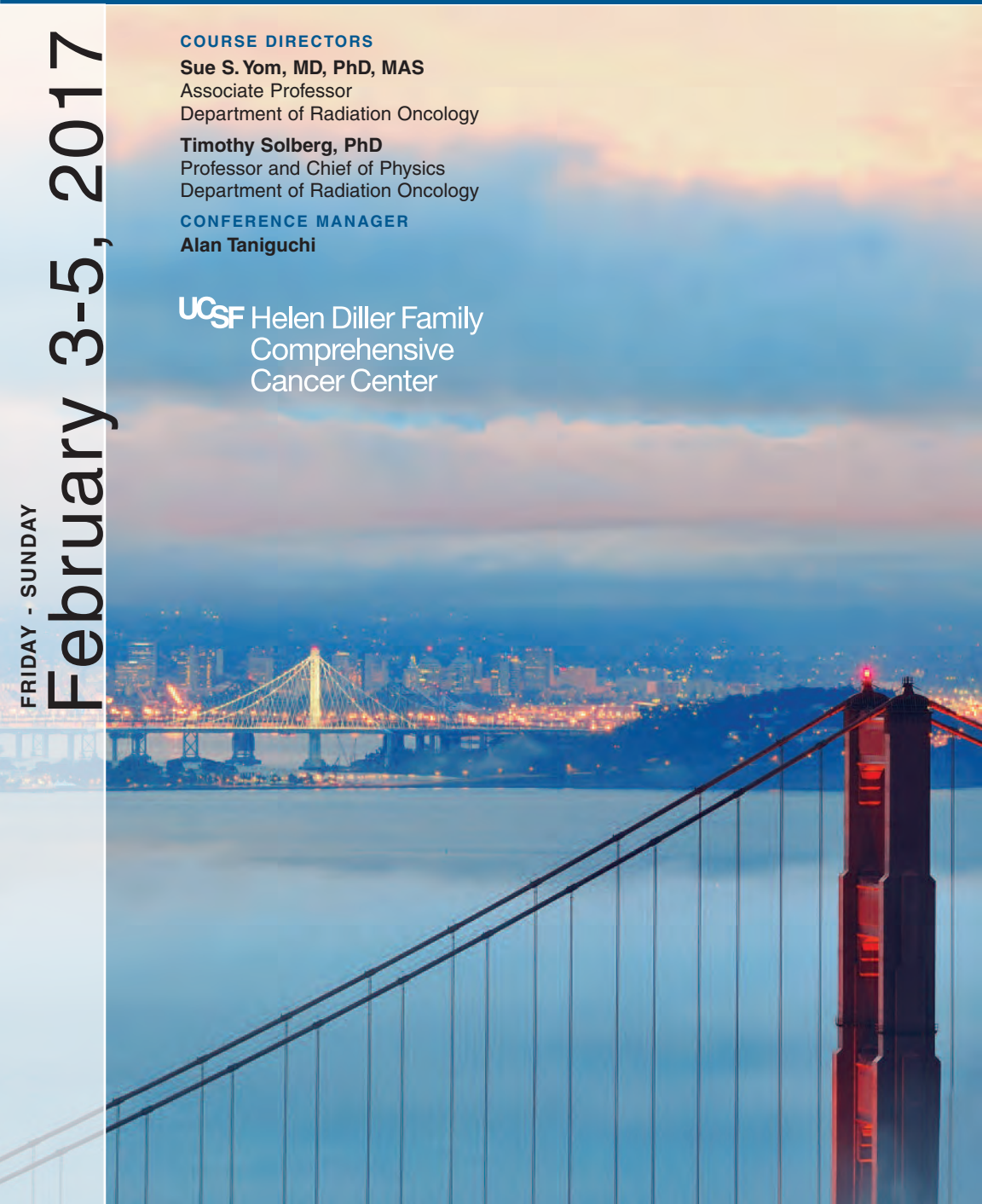
CONFERENCE MANAGER

Alan Taniguchi

UCSF Helen Diller Family
Comprehensive
Cancer Center

FRIDAY - SUNDAY

February 3-5, 2017



UCSF RADIATION ONCOLOGY UPDATE: PRACTICAL DECISIONS IN THE ERA OF BIG DATA

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OVERVIEW

The concept of 'big data' is gaining major importance within the field of oncology but remains poorly defined and underimplemented in radiation oncology. One major barrier is the very definition of the term, especially in the context of a wide variety of types and sources of data in a technical but medically oriented field such as radiation oncology. The term 'big data' may connote technically complex data streams related to radiation planning or delivery, large-scale screening or data-seeking assays aimed at predicting or influencing anticancer effects, or the process of capturing and organizing workflow and process-oriented data and forming analytical structures or tools around them. In radiation oncology, the challenge is how to adapt current infrastructures to maximize returns from the "era of big data" and how to make these data translate into meaningful clinical practice that will assist in clinical decision making and benefit the individual patient.

At the end of this activity, attendees should be able to:

- Give at least three specific examples of the term 'big data.'
- Discuss potential benefits of 'big data' processes in their application to several anatomic sites.
- Cite evidence of the emergence of 'big data' in medical oncology, radiology, and radiation oncology.
- Identify at least two appropriate clinical scenarios for combining immunotherapy and radiotherapy.
- Optimize imaging protocols to maximize the quality of care in a radiation oncology practice.
- Name at least two specific anatomic landmarks important for contouring in several anatomic sites.

GENERAL INFORMATION

Advanced registration closes one (1) business day prior to start of course.

HOW TO ENROLL

Tuition: **\$600** Practicing Physicians
\$500 All others

Payment can be made by Visa, MasterCard, AmEx or check.

REGISTER VIA:

Online: cme.ucsf.edu

Mail: Complete course registration form and send with payment to:
UCSF Office of CME
P.O. Box 45368
San Francisco, CA 94145

Fax: Fax completed registration form to:
(415) 502-1795 (be sure to include your credit card number)

Phone: To register by phone or to inquire about registration status, please call UCSF's CME Registration Office at (415) 476-5808.

Please check our website for up-to-date information on the course: cme.ucsf.edu

On-Site Registration: Generally we are able to accommodate on-site registration at our courses however pre-registration is preferred to ensure that we have adequate course materials.

REFUND POLICY

Cancellations received in writing before the first day of the course will be refunded, less a \$75 administrative fee. No refunds will be made on cancellations received after that date.

CONFERENCE LOCATION

Enjoy San Francisco's renowned attractions such as the historic cable cars, shopping in Union Square, or visit San Francisco's culinary hub at the Ferry Building.

The St. Regis Hotel is just steps from Union Square and the Theatre District. A block of guestrooms has been reserved at the special UCSF conference rate of **\$389/night**. You are urged to make your reservations early. The cut off date is **January 15, 2017**, or until the group room block is filled. After this date, rooms will be provided on a space-available basis only. Please call to book your reservation, at (415) 284-4000. Please identify yourself as a member of this conference and ask for UCSF Radiation Oncology rate.

By staying at the host hotel, you help UCSF meet its contractual obligations and keep registration fees reasonable.

St. Regis Hotel

San Francisco, CA

ACCREDITATION

The University of California, San Francisco School of Medicine (UCSF) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

UCSF designates this live activity for a maximum of **15.75 AMA PRA Category 1 Credits™**. Physician should only claim credit commensurate with the extent of their participation in the activity.

This CME activity meets the requirements under California Assembly Bill 1195, continuing education and cultural and linguistic competency.

SA-CME credits will be offered for case-based learning sessions

Nurses:

For the purpose of recertification, the American Nurses Credentialing Center accepts *AMA PRA Category 1 Credits™* issued by organizations accredited by the ACCME.

Physician Assistants:

AAPA accepts category 1 credit from AOACCME, Prescribed credit from AAFP, and *AMA PRA Category 1 Credit™* from organizations accredited by the ACCME.

Pharmacy:

The California Board of Pharmacy accepts as continuing professional education those courses that meet the standard of relevance to pharmacy practice and have been approved for *AMA PRA Category 1 Credit™*.

general

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FRIDAY, FEBRUARY 3, 2017

1:00 pm **Opening Remarks** Sue Yom, MD, PhD, MAS

GENITOURINARY • MODERATOR: ALEXANDER GOTTSCHALK, MD, PhD

1:05 **Rational Selection for Surveillance** Matthew Cooperberg, MD, MPH
1:25 **PET Imaging for Prostate Cancer** Thomas Hope, MD
1:50 **GU Case-Based Learning***
Panel:
Albert Chang, MD,
Matt Cooperberg, MD, PhD,
Felix Feng, MD, PhD,
Alexander Gottschalk, MD, PhD,
Thomas Hope, MD

THE J FRANZ BUSHCKE LECTURE

2:30 **Introduction** Catherine Park, MD
2:40 **Optimizing Radiation-Induced Prostate Cancer Cell Death: Targeted Enhancement of DNA Injury** Theodore DeWeese, MD
3:30 *Break*

BREAST • MODERATOR: TRACY SHERERTZ, MD

3:50 **Predicting Local Recurrence Through Molecular Diagnostics** Hope Rugo, MD
4:10 **Updates in Breast Imaging for Screening, Upfront Staging and Follow-up** Heather Greenwood, MD
4:30 **Breast Radiology/Contouring Review** Heather Greenwood, MD,
Tracy Sherertz, MD
4:50 **Breast Case-Based Learning ***
Panel: Tracy Sherertz, MD,
Heather Greenwood, MD,
Cathy Park, MD,
Hope Rugo, MD

5:30 pm *Adjourn*

SATURDAY, FEBRUARY 4, 2017

7:30 am *Continental Breakfast*

8:00 **Announcements** Martina Descovich, PhD

CNS • MODERATOR: JEAN NAKAMURA, MD

8:10 **Towards a Predictive Treatment Planning Approach for Brain Tumors** Olivier Morin, PhD
8:30 **Going Hytec with a New Icon: Image-Guided Hypofractionated Gamma Knife Radiosurgery** Lijun Ma, PhD
8:50 **CNS Case-Based Learning ***
Panel: Steve Braunstein, MD,
Jenny Clarke, MD,
Shannon Fogh, MD,
Penny Sneed, MD,
Leo Sugrue, MD,
Philip Theodosopoulos, MD

9:50 *Break*

THE THEODORE L. PHILLIPS LECTURE • TIMOTHY SOLBERG, PHD

10:10 **Introduction** Theodore Phillips, MD
10:05 **Converting on the Promise of Personalized Cancer Medicine** David Jaffray, PhD

BIG DATA • MODERATOR : TIMOTHY SOLBERG, PHD

11:10 **Introduction** Timothy Solberg, PhD
11:15 **Interpretable Machine Learning Algorithms: A Scalpel for the Physician** Gilmer Valdes, PhD
11:35 **Translating Big Data to Precision Medicine** Marina Sirota, PhD
11:55 **Interrogating High-Throughput Data to Develop Predictive Classifiers of Response to Radiation or Androgen Deprivation for Prostate Cancer** Felix Feng, MD, PhD
12:15 **Big Data Panel Summary/Discussion** Timothy Solberg, PhD
12:30 *Lunch*

OPTIONAL LUNCH AND LEARN: RADIOBIOLOGY • MARY HELEN BARCELLOS-HOFF, PHD

1:00 **Updates in Radiobiology at UCSF** Mary Helen Barcellos-Hoff, PhD

program

SATURDAY, FEBRUARY 4, 2017 (CONT'D)

GASTROINTESTINAL • MODERATOR MEKHAIL ANWAR, MD, PhD

1:30	Radiation for Pancreas Cancer	Mekhail Anwar, MD, PhD
1:45	Surgery in Multidisciplinary Management of Pancreatic Cancer	Kimberly Kirkwood, MD
2:00	Modern Systemic Therapy and New Frontiers in Pancreas Cancer	Andrew Ko, MD
2:15	Management of Hepatobiliary Tumors	Mary Feng, MD
2:30	GI Case-Based Learning *	Panel: Mekhail Anwar, MD, PhD, Mary Feng, MD, Kim Kirkwood, MD, Andrew Ko, MD
3:20	<i>Break</i>	

HEAD & NECK • MODERATOR: SUE YOM, MD, PhD, MAS

3:40	MRI Sim and Novel MR Sequences	Atchar Sudhyadhom, PhD
3:55	PETCT for Prediction of Outcomes	Wendy Hara, MD
4:10	Head and Neck Contouring/Imaging Review	Alina Uzelac, MD, Sue Yom, MD, PhD, MAS
4:30	Head and Neck Case-Based Learning *	Panel: Sue Yom, MD, PhD, Alain Algazi, MD, Sarah Arron, MD, PhD, MAS, Josephine Chen, PhD, Patrick Ha, MD, Wendy Hara, MD, Alina Uzelac, MD, Mieke Van Zante, MD, PhD

5:30-7:30 pm **ALL ATTENDEES' RECEPTION**

SUNDAY, FEBRUARY 5, 2017

7:30 am *Continental Breakfast*

8:00 **Announcements** Sue Yom, MD, PhD, MAS

THORACIC • MODERATOR: ADAM GARSA, MD

8:05	Lung Cancer Pathology and the Staging System	Kirk Jones, MD
8:25	Advances in Targeted Therapy and Immunotherapy for Lung Cancer	Matt Gubens, MD
8:45	Advanced Radiation Techniques for Lung Cancer	Adam Garsa, MD
9:05	Lung Cancer Imaging/Contouring Review	David Naeger, MD, Adam Garsa, MD
9:25	Thoracic Case-Based Learning *	Panel: Adam Garsa, MD, Martina Descovich, PhD, Alexander Gottschalk, MD, PhD, Matt Gubens, MD, Kirk Jones, MD, David Naeger, MD, Sue Yom, MD, PhD, MAS
10:05	<i>Break</i>	

GYN • MODERATOR: TRACY SHERERTZ, MD

10:25	Advances in Gynecologic Oncology	Lee-May Chen, MD
10:45	Multi-modality Imaging in Gynecological Cancer	Liina Poder, MD
11:15	GYN Case-Based Learning *	Panel: Tracy Sherertz, MD, I-Chow (Joe) Hsu, MD, Lee-May Chen, MD, Jyoti Mayadev, MD, Liina Poder, MD
11:55	Closing Remarks	Timothy Solberg, PhD
12:00 pm	<i>Adjourn</i>	

** Self-assessment CME credits offered*



REGISTER TODAY!

For more information or to register online visit our website at cme.ucsf.edu you may also reach us by calling the Office of CME at (415) 476-4251 or emailing: info@ocme.ucsf.edu.

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Wendy Hara, MD
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Radiation Oncology, Stanford
University

Jyoti Mayadev, MD
Assistant Professor, Department of
Radiation Oncology, University of
California Davis

THE THEODORE L. PHILLIPS LECTURE

David Jaffray, PhD
Professor and Chief of Physics,
Department of Radiation Oncology,
Princess Margaret Hospital

THE J. FRANZ BUSCHKE LECTURE

Theodore DeWeese, MD
Professor and Chair, Department of
Radiation Oncology, Johns Hopkins
School of Medicine

UCSF COURSE FACULTY

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Associate Professor, Department of
Medicine, Hematology/Oncology
Mekhail Anwar, MD, PhD
Assistant Professor

Sarah Arron, MD, PhD, MAS
Associate Professor,
Department of Dermatology

Mary Helen Barcellos-Hoff, PhD
Professor and Director of
Radiobiology

Steve Braunstein, MD, PhD
Assistant Professor

Albert Chang, MD, PhD
Assistant Professor

Josephine Chen, PhD
Associate Professor

COURSE FACULTY (CONT'D)

Lee-May Chen, MD
Professor, Department of Obstetrics,
Gynecology, and Reproductive
Sciences

Jennifer Clarke, MD
Assistant Professor, Department of
Neurological Surgery

Matthew Cooperberg, MD, MPH
Associate Professor,
Department of Urology

Martina Descovich, PhD
Associate Professor

Felix Feng, MD, PhD
Associate Professor

Mary Feng, MD
Associate Professor

Shannon Fogh, MD
Assistant Professor

Alexander Gottschalk, MD, PhD
Professor

Heather Greenwood, MD
Assistant Professor
Department of Radiology

Matthew Gubens, MD
Assistant Professor,
Department of Medicine,
Hematology/Oncology

Patrick Ha, MD
Professor, Department of
Otolaryngology,
Head and Neck Surgery

Thomas Hope, MD
Assistant Professor
Department of Radiology

I-Chow (Joe) Hsu, MD
Professor

Kirk Jones, MD
Professor, Departments of Pathology
and Laboratory Medicine

Kimberly Kirkwood, MD
Professor, Department of Surgery

Andrew Ko, MD
Professor, Department of Medicine

Lijun Ma, PhD
Professor, UCSF Radiation Oncology

COURSE FACULTY (CONT'D)

Olivier Morin, PhD
Assistant Professor,
UCSF Radiation Oncology

David Naeger, MD
Associate Professor,
Department of Radiology

Jean Nakamura, MD
Associate Professor

Catherine Park, MD
Professor and Chair

Theodore Phillips, MD
Professor Emeritus

Liina Poder, MD
Professor, Department of Radiology

Hope Rugo, MD
Professor, Department of Medicine,
Hematology/Oncology

Tracy Sherertz, MD
Assistant Professor

Marina Sirota, PhD
Assistant Professor,
Department of
Pediatrics

Patricia (Penny) Sneed, MD
Professor

Atchar Sudhyadhom, PhD
Assistant Professor

Leo Sugrue, MD
Assistant Professor,
Department of Radiology

Philip Theodosopoulos, MD
Professor, Department of
Neurological Surgery

Alina Uzelac, MD
Assistant Professor,
Department of Radiology

Gilmer Valdes, PhD
Assistant Professor,
UCSF Radiation Oncology

Annemieke van Zante, MD, PhD
Associate Professor,
Department of Pathology

faculty

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Refund Policy: Cancellations received in writing before the first day of the course will be refunded, less a \$75 administrative fee. No refunds will be made on cancellations received after that date.

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