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

UCSF Radiation Oncology Update: Maximizing the Local and Systemic Impact of Radiation Therapy

Friday - Sunday
April 12-14, 2019
Fairmont San Francisco
San Francisco, CA
UCSF Radiation Oncology Update: Maximizing the Local and Systemic Impact of Radiation Therapy

OVERVIEW
Radiation therapy is now recognized as a complex intervention that enacts local but also systemic effects. There are unprecedented opportunities to combine radiation therapy with chemotherapy, immunotherapy and targeted therapies, particularly in the context of oligometastatic disease. In addition, new advances in imaging and quantitative analysis are enhancing the diagnostic and prognostic tools available for radiation planning. This course features special sessions on immunotherapy and the immunologic response as well as quantitative analysis and applications of advanced imaging. Lectures and case-based demonstrations will highlight applications of IMRT and SBRT to these contemporary issues.

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

• Apply the latest techniques of IMRT and SBRT in combined-therapy treatment planning.
• Optimize treatment of oligometastatic disease in the context of novel systemic therapies.
• Utilize knowledge of immunologic science to better predict a patient’s response to treatment.
• Employ advanced imaging in diagnosing and planning treatment for patients.

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.

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

HOW TO ENROLL
Tuition:
$650 Practicing Physicians
$500 AHPs
$325 Residents/Fellows
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
3333 California St, Suite 450
San Francisco, CA 94118
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.

April 12-14, 2019

Fairmont San Francisco
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 19.50 AMA PRA Category 1 Credits™. Physicians 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™.

RTT/Dosimetrists:
ASRT and MDCB credits will be offered.

Fairmont San Francisco is just steps from Union Square and the Theatre District. A block of guestrooms has been reserved at the special UCSF conference rate of $320/night. You are urged to make your reservations early. The cut-off date is March 12, 2019, or until the group room block is filled. After this date, rooms will be provided on a space-available basis only.

Reservation booking link: https://book.passkey.com/go/ucsfcourse

By staying at the host hotel, you help UCSF meet its contractual obligations and keep registration fees reasonable.
### DAY 1 • FRIDAY, APRIL 12, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 pm</td>
<td>Conference opening and announcements</td>
<td>Sue Yom, MD, PhD</td>
</tr>
<tr>
<td>1:10</td>
<td>Welcome</td>
<td>Catherine Park, MD</td>
</tr>
<tr>
<td>1:15</td>
<td>GENITOURINARY CANCERS • Moderator: Anthony Wong, MD</td>
<td>Mack Roach, III, MD</td>
</tr>
<tr>
<td>1:30</td>
<td>Molecular Imaging to Guide Prostate Radiation</td>
<td>Thomas Hope, MD</td>
</tr>
<tr>
<td>1:45</td>
<td>Role of Radiotherapy for Metastatic Prostate Cancer</td>
<td>Richard Valicenti, MD</td>
</tr>
<tr>
<td>2:00</td>
<td>Genomic Medicine in Prostate Cancer</td>
<td>Felix Feng, MD</td>
</tr>
<tr>
<td>2:15</td>
<td>Updates in Bladder Cancer Management</td>
<td>Anthony Wong, MD</td>
</tr>
<tr>
<td>2:30</td>
<td>GU Case-Based Learning: Self-Assessment Session*</td>
<td>Anthony Wong, MD with: Felix Feng, MD • Richard Valicenti, MD • Thomas Hope, MD • Mack Roach, MD • Adam Cunha, PhD</td>
</tr>
<tr>
<td>3:15</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>3:35</td>
<td>BRAIN AND SPINE TUMORS • Moderator: Encouse Golden, MD, PhD</td>
<td>Steve Braunstein, MD, PhD</td>
</tr>
<tr>
<td>3:50</td>
<td>Optimal Management of Spine Reirradiation/SBRT</td>
<td>Lijun Ma, PhD</td>
</tr>
<tr>
<td>4:05</td>
<td>Spine Metastases and Vertebroplasty</td>
<td>Cynthia Chin, MD</td>
</tr>
<tr>
<td>4:20</td>
<td>Immunotherapy and Brain Metastases</td>
<td>Adil Daud, MD</td>
</tr>
<tr>
<td>4:35</td>
<td>Integrating Immunotherapy and Radiotherapy</td>
<td>Encouse Golden, MD, PhD</td>
</tr>
<tr>
<td>4:50</td>
<td>Immunotherapy and Radiation Therapy: Practical Considerations</td>
<td>Shannon Fogh, MD</td>
</tr>
<tr>
<td>5:05</td>
<td>CNS Case-Based Learning: Self-Assessment Session*</td>
<td>Shannon Fogh, MD with: Steve Braunstein, MD • Encouse Golden, MD • Adil Daud, MD • Lijun Ma, PhD • Jean Nakamura, MD • Cynthia Chin, MD</td>
</tr>
<tr>
<td>5:50 pm</td>
<td>Adjourn</td>
<td></td>
</tr>
</tbody>
</table>

### DAY 2 • SATURDAY, APRIL 13, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:50 am</td>
<td>Day 2 Announcements</td>
<td>Sue Yom, MD, PhD</td>
</tr>
<tr>
<td>8:00</td>
<td>IMMUNOLOGIC EFFECTS OF TREATMENT • Moderator: Catherine Park, MD</td>
<td>Mary-Helen Barcellos-Hoff, PhD</td>
</tr>
<tr>
<td>8:30</td>
<td>Biology of Irradiated Tumors</td>
<td>Noriyuki Kasahara, MD</td>
</tr>
<tr>
<td>9:00</td>
<td>Introduction of Buschke Lecturer</td>
<td>Catherine Park, MD</td>
</tr>
<tr>
<td>10:00</td>
<td>2019 Franz J. Buschke Lecture: A Spectrum of Metastasis: A Role for Radiotherapy/Immunology Intervention?</td>
<td>Ralph Weichselbaum, MD</td>
</tr>
<tr>
<td>10:20</td>
<td>PROGRAMMATIC APPROACHES TO IMMUNOLOGIC RESPONSE • Moderator: Mary-Helen Barcellos-Hoff</td>
<td>Charles Drake, MD, PhD</td>
</tr>
<tr>
<td>11:00</td>
<td>Immune Counter-Balances to the Pro-Inflammatory Effects of Radiation Therapy</td>
<td>Matthew Spitzer, PhD</td>
</tr>
<tr>
<td>11:30</td>
<td>Highlights of the UCSF Cancer Immunotherapy Program and Parker Institute</td>
<td>Lawrence Fong, MD</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>1:00</td>
<td>BREAST CANCERS • Moderator: Joanna Yang, MD</td>
<td>Rita Muktar, MD</td>
</tr>
<tr>
<td>1:15</td>
<td>Management of the Axilla</td>
<td>Catherine Park, MD</td>
</tr>
<tr>
<td>1:30</td>
<td>Predicting Local Recurrence Risk after Neoadjuvant Chemotherapy</td>
<td>Joanna Yang, MD</td>
</tr>
<tr>
<td>1:45</td>
<td>Advances in Immunotherapy for Breast Cancer</td>
<td>Stephen Shiao, MD, PhD</td>
</tr>
<tr>
<td>2:00</td>
<td>Breast Case-Based Learning: Self-Assessment Session*</td>
<td>Catherine Park, MD with: Joanna Yang, MD • Rita Muktar, MD • Stephen Shiao, MD, PhD • Emily Hirata, PhD</td>
</tr>
<tr>
<td>2:45</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>3:05</td>
<td>HEAD AND NECK CANCERS • Moderator: Jason Chan, MD</td>
<td>Javier Villaneuva-Meyer, MD</td>
</tr>
<tr>
<td>3:20</td>
<td>Novel Imaging Techniques in HN Cancer</td>
<td>Sue Yom, MD, PhD</td>
</tr>
<tr>
<td>3:35</td>
<td>Minimizing Toxicity of HN/Cutaneous IMRT</td>
<td>Hyunseok Kang, MD</td>
</tr>
<tr>
<td>3:50 pm</td>
<td>Adjourn</td>
<td></td>
</tr>
</tbody>
</table>
### DAY 2 • SATURDAY, APRIL 13, 2019 (CONT’D)

**HEAD AND NECK CANCERS (CONT’D)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:50</td>
<td>Surgery for Recurrent/Metastatic Disease</td>
<td>Patrick Ha, MD</td>
</tr>
<tr>
<td>4:05</td>
<td>HN SBRT vs Brachytherapy: Evidence-Based Approaches</td>
<td>Jason Chan, MD</td>
</tr>
<tr>
<td>4:20</td>
<td>Dental Management Before and After Radiation</td>
<td>Jennifer Perkins, DDS, MD</td>
</tr>
<tr>
<td>4:35</td>
<td>HN Case-Based Learning: Self-Assessment Session*</td>
<td>Jason Chan, MD with: Sue Yom, MD • Hyunseok Kang, MD • Javier Villaneuva-Meyer, MD • Patrick Ha, MD • Jennifer Perkins, DDS, MD • Vasant Kearney, PhD</td>
</tr>
</tbody>
</table>

5:20 pm  
*All-Attendee Reception*

### DAY 3 • SUNDAY, APRIL 14, 2019

**ADVANCED IMAGING IN RADIATION ONCOLOGY**  
*Moderator: Timothy Solberg, PhD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Quantitative Imaging in Radiation Oncology</td>
<td>Olivier Morin, PhD</td>
</tr>
<tr>
<td>8:15</td>
<td>Dosimetry of Internal Emitters</td>
<td>Sara St. James, PhD</td>
</tr>
<tr>
<td>8:30</td>
<td>Applications of MRI in Radiation Oncology</td>
<td>Atchar Sudhyadhom, PhD</td>
</tr>
<tr>
<td>8:45</td>
<td>Novel PET Pharmaceuticals in the Era of Immunotherapy</td>
<td>Robert Flavell, MD</td>
</tr>
<tr>
<td>9:00</td>
<td>Introduction of Phillips Lecture</td>
<td>Timothy Solberg, PhD</td>
</tr>
<tr>
<td></td>
<td>2019 Theodore L. Phillips Lecture: AI-Based Decision Support Systems for Modern Radiation Therapy &amp; Participative Medicine</td>
<td>Philippe Lambin, MD, PhD</td>
</tr>
<tr>
<td>10:00</td>
<td>Break</td>
<td></td>
</tr>
</tbody>
</table>

**THORACIC CANCERS**  
*Moderator: Sue Yom, MD, PhD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:20</td>
<td>Novel Approaches in Thoracic IMRT</td>
<td>Sue Yom, MD, PhD</td>
</tr>
<tr>
<td>10:35</td>
<td>Major Updates in SBRT for Stage I Lung Cancer</td>
<td>Megan Daly, MD</td>
</tr>
<tr>
<td>10:50</td>
<td>Management of Recurrent/Metastatic Lung Cancer</td>
<td>Matt Gubens, MD</td>
</tr>
<tr>
<td>11:05</td>
<td>SBRT in Oligometastatic Lung Cancer</td>
<td>Alexander Gottschalk, MD</td>
</tr>
<tr>
<td>11:20</td>
<td>Individualized Decision Making for Older Adults with Lung Cancer</td>
<td>Melisa Wong, MD</td>
</tr>
<tr>
<td>11:35</td>
<td>Thoracic Case-Based Learning: Self-Assessment Session*</td>
<td>Sue Yom, MD with: Megan Daly, MD • Alexander Gottschalk, MD • Matthew Gubens, MD • Melisa Wong, MD • Timothy Solberg, MD</td>
</tr>
<tr>
<td>12:20</td>
<td>Lunch</td>
<td></td>
</tr>
</tbody>
</table>

**GASTROINTESTINAL CANCERS**  
*Moderator: Mekhail Anwar, MD, PhD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:20</td>
<td>IMRT Technique for Dose Escalation in Anal Cancer and Non-Operative Rectal Cancer Management</td>
<td>Mekhail Anwar, MD, PhD</td>
</tr>
<tr>
<td>1:35</td>
<td>Best Practices in Primary Liver SBRT</td>
<td>Mary Feng, MD</td>
</tr>
<tr>
<td>1:50</td>
<td>Redefining Cure: Surgical versus Nonsurgical Management of Metastatic Disease in the Liver</td>
<td>Carlos Corvera, MD</td>
</tr>
<tr>
<td>2:05</td>
<td>Gastric and Esophageal Update: Using Imaging, Immune and Molecular Profiling to Guide Radiotherapy</td>
<td>Michael Korn, MD, and Spencer Behr, MD</td>
</tr>
<tr>
<td>2:20</td>
<td>GI Case-Based Learning: Self-Assessment Session*</td>
<td>Mekhail Anwar, MD with: Mary Feng, MD • Gilmer Valdes, PhD • Carlos Corvera, MD • Michael Korn, MD • Spencer Behr, MD</td>
</tr>
<tr>
<td>3:05</td>
<td>Break</td>
<td></td>
</tr>
</tbody>
</table>

**GYNECOLOGIC CANCERS**  
*Moderator: Emi Yoshida, MD, PhD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:25</td>
<td>Best Practices in Endometrial Cancer Management</td>
<td>Emi Yoshida, MD</td>
</tr>
<tr>
<td>3:45</td>
<td>MRI-Based Radiotherapy in the Pelvis</td>
<td>Albert Chang, MD, PhD</td>
</tr>
<tr>
<td>4:05</td>
<td>Update on Cooperative Group Gynecologic Oncology Trials</td>
<td>Jyoti Mayadev, MD</td>
</tr>
<tr>
<td>4:25</td>
<td>GYN Case-Based Learning: Self-Assessment Session*</td>
<td>Emi Yoshida, MD with: Albert Chang, MD, PhD • Jyoti Mayadev, MD • Joe Hsu, MD • Adam Cunha, PhD</td>
</tr>
<tr>
<td>5:00</td>
<td>Closing</td>
<td></td>
</tr>
</tbody>
</table>

* Self-Assessment CME credits offered for Case-Based Learning sessions
COURSE DIRECTORS
Catherine Park, MD
Professor and Chair
Mary Helen Barcellos-Hoff, PhD
Professor and Vice Chair
Timothy Solberg, PhD
Professor and Chief of Physics
Sue Yom, MD, PhD, MAS
Professor

CONFERENCE MANAGER
Alan Taniguchi, MS

VISITING FACULTY
Albert Chang, MD, PhD
Associate Professor, Radiation Oncology, UCLA Health
Megan Daly, MD
Associate Professor, Radiation Oncology, UC-Davis Health
Charles Drake, MD, PhD
Professor and Co-Director Cancer Immunotherapy Program
Columbia University
Jyoti Mayadev, MD
Associate Professor, Radiation Oncology
UC-San Diego Health
Stephen Shiao, MD, PhD
Assistant Professor and Basic Science Director
Radiation Oncology
Cedars-Sinai Medical Center
Richard Valicenti, MD
Professor and Chair
Radiation Oncology
UC-Davis Health

THE THEODORE L. PHILLIPS LECTURE
Philine Lambin, MD, PhD
Professor and Head, Department of Radiation Oncology, University of Maastricht, The Netherlands

THE J. FRANZ BUSCHKE LECTURE
Ralph Weichselbaum, MD
Daniel K. Ludwig Distinguished Service Professor of Radiation and Cellular Oncology
Chair, Department of Radiation and Cellular Oncology,
University of Chicago

UCSF COURSE FACULTY
Mekhail Anwar, MD, PhD
Assistant Professor
Spencer Behr, MD
Associate Professor
Radiology and Biomedical Imaging
Steve Braunstein, MD, PhD
Assistant Professor
Jason Chan, MD
Clinical Fellow
Cynthia Chin, MD
Professor
Radiology and Biomedical Imaging
Carlos Conerva, MD
Professor, Surgery
Adil Daud, MD
Assistant Professor
Hematology and Oncology
Andrea Gensler, MD
Assistant Professor
Felix Feng, MD
Professor
Mary Feng, MD
Professor
Robert Flavell, MD, PhD
Assistant Professor
Radiology and Biomedical Imaging
Lawrence Fong, MD
Professor, Urology
Shannon Fogh, MD
Associate Professor
Encoue Golden, MD, PhD
Assistant Professor
Alexander Gottschalk, MD, PhD
Professor
Matthew Gubens, MD
Associate Professor
Hematology and Oncology
Thomas Hope, MD
Associate Professor
Radiology and Biomedical Imaging
Patrick Ha, MD
Professor
Otology and Biomedical Imaging
Emily Hirata, PhD
Assistant Professor
I-Chow (Joe) Hsu, MD
Professor

Hyunseok Kang, MD
Associate Professor
Hematology and Oncology
Noriyuki Kasahara, MD, PhD
Professor, Neurosurgery
Vasant Kearn, PhD
Assistant Professor
Andrew Ko, MD
Professor
Hematology and Oncology
Michael Korn, MD
Chief Medical Officer
Caris Life Sciences
Lijun Ma, PhD
Professor
Olivier Morin, PhD
Assistant Professor
Rita Mukhtar, MD
Assistant Professor, Surgery
Jean Nakamura, MD, PhD
Professor
Jennifer Perkins, DDS, MD
Associate Professor
Oral & Maxillofacial Surgery
Mack Roach, III, MD
Professor
Sarah St. James, PhD
Assistant Professor
Matthew Spitzer, PhD
Assistant Professor
Otology and Biomedical Imaging
Anthony Wong, MD, PhD
Assistant Professor
Melisa Wong, MD
Assistant Professor
Joanna Yang, MD
Assistant Professor
Emi Yoshida, MD
Assistant Professor

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.

Printed on Recycled Paper
Course Registration Form

UCSF RADIATION ONCOLOGY UPDATE: MAXIMIZING THE LOCAL AND SYSTEMIC IMPACT OF RADIATION THERAPY
April 12-14, 2019
Fairmont San Francisco • San Francisco, California

Mail to: UCSF Office of CME
3333 California Street, Suite 450
San Francisco, CA 94118
Fax: (415) 502-1795

Online registration: cme.ucsf.edu
Registration Information: (415) 476-5808
Course Information: (415) 476-4251

☐ Dr. ☐ Ms. ☐ Mr. ☐ Mrs. ☐ Mx.

LAST NAME FIRST M.I.

DEGREE SPECIALTY

ADDRESS

CITY STATE ZIP

DAYTIME PHONE FAX

EMAIL

Address Label Code (see address label: example, A, B, C, D, etc.) ________

Would you like to be on our priority email list? ☐ Yes ☐ No

Date of birth to be used as OCME registrant number: ___ / ___ / ______

Please indicate if you have any special needs: ______________________________________

REGISTRATION FEES:
☐ $650 Practicing Physicians
☐ $500 Allied Health Professionals
☐ $325 Residents/Fellows

Make checks payable to UC Regents

Please charge my credit card: ☐ Visa ☐ MasterCard ☐ AmEx for $ _____________

_________________________________________________________ |
CARD #                                                                                                                                  ExPIRATION DATE
________________________________________ |
NAME ON CARD (PLEASE PRINT)                                            AUTHORIZED SIGNATURE

Refund Policy: Cancellations received in writing before the first day of the course will be refunded, less a $150 administrative fee. No refunds will be made on cancellations received after that date.

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

Fairmont San Francisco
950 Mason Street
San Francisco, CA 94108
(415) 772-5000 phone
(866) 540 4491 toll-free
https://www.fairmont.com/san-francisco/