MD Anderson-Stanford Conference

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Advanced Techniques and Technologies for Radiation Oncology

October 25-26, 2018

MDAnderson Cancer Center

Making Cancer History®

Mid Campus Building 1, Floor 3 Conference Room 1 (1MC3.1016) 7007 Bertner Avenue Houston, TX 77030

MD Anderson-Stanford Conference on Advanced Techniques and Technologies for Radiation Oncology

Goals

The goals for The MD Anderson-Stanford Conference on Advanced Techniques and Technologies for Radiation Oncology are to:

- Explore opportunities for research collaboration among participating institutions and MD Anderson
- Update attendees on emerging techniques and technologies
- Exchange ideas for future research and development

This will be a learning exchange between two institutions on advanced radiation oncology technologies. This target audience for this symposium are residents, physicists and physicians. The activity is designed to inform participants of the latest radiotherapy treatment paradigms.

The expected outcome is an improved understanding of the role of advanced radiotherapy techniques in the treatment of cancer.

Educational Objectives

After attending the conference, participants should be able to:

- Recognize the role of MR-guidance in radiotherapy (knowledge, competence).
- Evaluate the role of proton therapy and carbon ion therapy in cancer treatment (knowledge, competence).
- Utilize emerging techniques and technologies to impact patient care and exchange ideas for future research and development (knowledge, competence, performance, patient outcomes).
- Assess the latest imaging advancements and the role in the treatment of cancer using radiotherapy (knowledge, competence).
- Assess the quality and safety measures in the delivery of radiation therapy (knowledge, competence).

Educational Methods

Lectures • Question & Answer Sessions • Case Presentations • Panel Discussions

Target Audience

This conference should be of interest to residents, physicists, physicians, scientists, dosimetrists, radiation therapists and advanced practice providers. The activity is designed to inform participants of the latest radiotherapy treatment paradigms.

Evaluation

A course evaluation survey will provide participants with the opportunity to comment on the value of the program content to their practice decisions, performance improvement activities, or possible impact on patient health status. Participants will also have the opportunity to comment on any perceived commercial bias in the presentations as well as to identify future educational topics.

Accreditation/Credit Designation

Physician

The University of Texas MD Anderson Cancer Center is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The University of Texas MD Anderson Cancer Center designates this live activity for a maximum of 11.00 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physicist

Continuing education credits are pending approval by the Commission on Accreditation of Medical Physics Education Programs, Inc.

Certificates awarding AMA PRA Category 1 Credit^M or certificates documenting attendance will be distributed to participants when an individual completes the conference evaluation at the link provided in the CME materials.

Agenda

Thursday, October 25, 2018

Session 1 – Moderator: Steven Frank, M.D.									
9 - 10 a.m.	Registration and Breakfast								
10 - 10:05 a.m.	Welcome and opening remarks – Albert Koong, M.D., Ph.D.								
10 a.m 3:40 p.m.	Particle therapy – protons and heavy ions								
10:05 - 10:30 a.m.	Carbon ion radiotherapy in Japan, past, present, and future – <i>Tadashi Kamada, M.D.</i>								
10:30 - 10:55 a.m.	Clinical experience and perspectives with carbon ion therapy – <i>Roberto Orecchia, M.D.</i>								
10:55 - 11:25 a.m.	Proton clinical updates: H&N – <i>Brandon Gunn, M.D.</i> ; Lung – <i>Zhongxing Liao, M.D.</i> ; Liver – <i>Emma Holliday, M.D.</i>								
11:25 - 11:45 a.m.	An overview of recent development of proton therapy technologies – <i>Ron Zhu, Ph.D.</i>								
11:45 a.m 12:30 p.m.	Lunch								
12:30 - 12:55 p.m.	Latest thoughts on biological aspects of protons and heavier ions – <i>David Grosshans, M.D., Ph.D.</i>								
12:55 - 1:20 p.m.	The significance of radiation induced lymphopenia and the potential for mitigation by proton therapy in esophageal cancer – <i>Steven Lin, M.D., Ph.D.</i>								
1:20 - 1:45 p.m.	Dosimetric associations and predictive modeling of immunosuppression and strategies for its minimization – <i>Radhe Mohan, Ph.D.</i>								
1:45 - 2 p.m.	Coffee break								
Session 2 – Moderator: Caroline Chung, M.D.									
2 - 3:25 p.m.	Imaging and image-guided RT								
2 - 2:25 p.m.	Four-year treatment experience and efficiency with real-time-image gated proton therapy (RGPT) and IGRT system – <i>Shinichi Shimizu, M.D., Ph.D.</i>								
2:25 - 2:55 p.m.	MR-guided therapy – Dave Fuller, M.D., Ph.D.								
2:55 - 3:25 p.m.	MR Linac – Geoff Ibbott, Ph.D./Jihong Wang, Ph.D.								

Friday, October 26	j, 2018									
Session 3 – Moderator: Mary Martel, Ph.D.										
7:30 - 7:50 a.m.	Breakfast									
7:50 - 8 a.m.	Intro – <i>Mary Martel, Ph.D.</i>									
8 - 9:55 a.m.	Imaging and image-guided RT, big data and machine learning									
8:10 - 8:40 a.m.	Radiomics: MR – <i>Caroline Chung, M.D.</i> ; CT – <i>Eugene Koay, M.D., Ph.D</i> .									
8:40 - 9:05 a.m.	Novel imaging modalities – David Piwnica-Worms, Ph.D.									
9:05 - 9:30 a.m.	Past, present and future of artificial intelligence medicine (tentative) – <i>Lei Xing, Ph.D.</i>									
9:30 - 9:55 a.m.	Artificial intelligence in radiation oncology – Steve Jiang, Ph.D.									
9:55 - 10:10 a.m.	Coffee break (15 min)									
Session 4 – Moderate	or: Sam Beddar, Ph.D.									
10:10 a.m 11:45 a.	m. Preclinical Radiation Oncology Technologies									
10:10 - 10:35 a.m.	Radio-immunotherapy – James Welsh, M.D.									
10:35 - 10:55 a.m.	Flash – Billy Loo, M.D., Ph.D.									
10:55 - 11:20 a.m.	Biomarker-driven radiation therapy – Steven Lin, M.D., Ph.D.									
11:20 - 11:45 a.m.	Radiation Planning Assistant – Laurence Court, Ph.D.									
11:45 a.m 12:45 p.m.	Lunch									

Agenda

Session 5 – Moderator: Albert Koong, M.D., Ph.D.									
12:45 - 6 p.m.	SBRT and Hypofractionation								
12:45 - 1:10 p.m.	Role of hypofractionation in liver – Eugene Koay, M.D., Ph.D.								
1:10 - 1:45 p.m.	SABR for lung – Joe Y. Chang, M.D., Ph.D.								
1:45 - 2:05 p.m.	SABR for pancreatic cancers – Joseph Herman, M.D., MSc.								
2:05 - 2:15 p.m.	Coffee								
Session 6 – Moderator: Prajnan Das, M.D., Ph.D./Beth Beadle, M.D., Ph.D.									
2:15 - 3:05 p.m.	MDACC Case Presentations (2) and Panel Discussion (50 min)								
3:05 - 3:55 p.m.	Stanford Case Presentations (2) and Panel Discussion (50 min)								
3:55 - 4 p.m.	Closing remarks								
4 - 6 p.m.	Tours								
	MR Linac – <i>Jihong Wang, Ph.D.</i>								
	Proton Center – Brandon Gunn, M.D., Ron Zhu, Ph.D.								

MD Anderson Faculty

Sam Beddar, Ph.D., Professor, Radiation Physics - Pt Care Joe Chang, M.D., Ph.D., Professor, Radiation Oncology **Caroline Chung, M.D.**, Assistant Professor, Radiation Oncology Laurence Court, Ph.D., Associate Professor, Radiation Physics - Pt Care **Prainan Das, M.D.**, Professor, Radiation Oncology Steven Frank, M.D., Professor, Radiation Oncology Clifton (Dave) Fuller, M.D., Ph.D., Associate Professor, Radiation Oncology David Grosshans, M.D., Ph.D., Associate Professor, Radiation Oncology Brandon Gunn, M.D., Associate Professor, Radiation Oncology Joseph Herman, M.D., MSc., Division Head Ad Interim, Radiation Oncology Emma Holliday, M.D., Assistant Professor, Radiation Oncology **Geoffrey Ibbott, Ph.D.**, Clinical Professor, Radiation Physics - Pt Care Eugene Koay, M.D., Ph.D., Assistant Professor, Radiation Oncology Albert Koong, M.D., Ph.D., Chair, Radiation Oncology **Zhongxing Liao, M.D.**, Professor, Radiation Oncology Steven Lin, M.D., Associate Professor, Radiation Oncology Mary Martel, Ph.D., Chair Ad Interim, Radiation Physics - Pt Care Radhe Mohan, Ph.D., Professor, Radiation Physics - Pt Care David Piwnica-Worms, Ph.D., Chair, Cancer Systems Imaging Jihong Wang, Ph.D., Professor, Radiation Physics James Welsh, M.D., Associate Professor, Radiation Oncology X. Ron Zhu, Ph.D., Professor, Radiation Physics - Pt Care

Guest Faculty

Beth Beadle, M.D., Ph.D., Stanford University
Steve Jiang, Ph.D., UT Southwestern
Tadashi Kamada, M.D., Hospital of the National Institute of Radiological
Sciences, National Institutes for Quantum and Radiological Science and
Technology, Chiba, Japan
Billy Loo, M.D., Ph.D., Stanford University
Roberto Orecchia, M.D., European Institute of Oncology, Milan, Italy
Shinichi Shimizu, M.D., Ph.D., Hokkaido University
Robert Timmerman, M.D., UT Southwestern
Lei Xing, M.D., Stanford University

Registration Information

Advanced Registration

Advanced registration is encouraged as space and materials are limited.

On-line

www.mdanderson.org/conferences

Mail

CME/Conference Management Unit 1781 The University of Texas MD Anderson Cancer Center P.O. Box 301407, Houston, TX 77230-1407

Fax

713-794-1724

The deadline for advanced registration is Friday, October 12, 2018. Telephone registrations are not accepted.

On-site Registration

9 a.m., Thursday, October 25, 2018 The University of Texas MD Anderson Cancer Center Mid Campus Building, Floor 3, Conference Center 7007 Bertner Street, Houston, Texas 77030

Payment Options

Check (payable through U.S. banks only) Money order Credit card (MasterCard, VISA, American Express) Cash (on-site registration only)

The program will begin at **10** a.m. on Thursday, October 25 and adjourn at 6 p.m. on Friday, October 26.

Conference registration fee includes tuition, final program pages, breakfast, lunch, and coffee breaks. Please see the registration site for applicable fees. Please refer to the registration form for specific information. When registering online a receipt/confirmation letter will be automatically emailed to the email address you provide. If you register by fax or mail, a receipt/confirmation letter will be sent to you within ten working days of receipt of your fee.

Refund/Cancellation Policy

The registration fee, minus a \$50 administrative handling fee, is refundable if a written request is received on or before Friday, October 12, 2018. No refunds will be granted after that date. The request for a registration refund must include the tax identification number of the company or institution if registration was paid by a company or institution check. For additional information, contact CME/Conference Management at 713-792-2223 or toll free at 866-849-5866.

CME/Conference Management reserves the right to cancel activities prior to the scheduled date, if low enrollment or other circumstances make it necessary. Each registrant will be notified by mail, e-mail, or at the phone or fax numbers given on the registration form.

In case of activity cancellation, the liability of CME/Conference Management is limited to the registration fee. CME/Conference Management will refund the full registration fee.

CME/Conference Management reserves the right to limit the number of participants in a program and is not responsible for any expenses incurred by an individual whose registration is not confirmed and for whom space is not available.

www.mdanderson.org/conferences

Special Assistance

Beth Murphy 713-745-1966 EAMurphy@MDAnderson.org

If you have special dietary or ADA accommodation needs, contact Beth.

Accommodations

Houston Marriott Medical Center Hotel

6580 Fannin Street, Houston, Texas 77030 713-796-0080 or 800-228-9290

A block of rooms has been reserved for conference attendees. When you make reservations, be sure to mention the **MD Anderson/Stanford Conference** to receive the special rate of \$122 (single or double). Add 17% for state and local taxes. Reservations and deposits received after Thursday, September 27, 2018 will be confirmed if space is available and at currently published hotel guest room rates.

Transportation

Airports George Bush Intercontinental (IAH) and William P. Hobby (HOU)

Taxicabs

Either airport to Medical Center: \$40-60 one-way

Super Shuttle

IAH to/from Medical Center: \$27 one-way / \$52 round-trip HOU to/from Medical Center: \$19 one-way / \$42 round-trip 713-523-8888 or 800-258-3826 or supershuttle.com

All prices listed above are subject to change.

Parking at the Conference

Public parking

MD Anderson's Mid Campus Building

1400 S. Braeswood, Houston, TX 77030

Enter the Mid Campus building from floor 5 of the garage, proceed into the building to the conference center.

THIS IS NOT A SELF-MAILER - Address to: Technologies MD Anderson-Stanford Conference on Advanced Techniques and Technologies	Highest Degree FOME/Conference Management–Unit 1781	The University of Texas MD Anderson Cancer Center PD Box 301407 Houston TX 77230-1407	or fax to 713-794-1724	Physician Yes/No Make check or money order payable to: The University of Texas MD Anderson Cancer Center		ail Code Registration Fees		Fax (with area code)	Postmarked before October 20	Trainees	CC Type: VISA/MC/AMEX	Security Code/CVV/CSV	MD Anderson Registration Fees	Physicians (MDs/DOs)	Fund Type Destmarked before October 20 \$75	C2118
CONFERENCE REGISTRATION FORM MD Anderson-Stanford Conference on Advanced Techniques and Technologies for Radiation Oncology – October 25-26, 2018	W	Specialty		MDACC employees)	Street	State/Foreign Country/Zip or Mail Code			Email Address (please print)	Emergency Contact Phone (with area code)	Credit Card Holder Name (First/Last)	Credit Card No. Exp. Date		vill not be accepted	Fund Group* Fund	IDT Approver Name (First/last) please print
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