

MDACC/UTSW ADVANCED IMAGING SYMPOSIUM

Thursday, September 14, 2023 | 8:00 am - 5:50 pm

8:00 AM – 8:30 AM	Registration & Breakfast	
8:30 AM – 8:40 AM	Welcome and Opening Remarks	Clifton David Fuller, MD, PhD (MDA) Robert Timmerman, MD (UTSW)
8:40 AM – 9:10 AM	Keynote Address: The Role of Advanced Imaging in Radiation Oncology	Freddy E. Escorcia, MD, PhD (NCI)
	X-Ray Guided Adaptive Radiotherapy	Mu-Han Lin, PhD (UTSW)
9:10 AM – 9:20 AM	Overview of X-Ray Image for Adaptive Planning and Utilization of Multi-Modality Images to Enhance Adaptive Therapy	Mu-Han Lin, PhD (UTSW)
9:20 AM – 9:30 AM	Clinical Applications for X-Ray Guided Adaptive Radiotherapy	Shahed Badiyan, MD (UTSW)
9:30 AM – 9:40 AM	Open Discussion	
	MR-Guided Adaptive Radiotherapy	Arnold Pompos, PhD (UTSW)
9:40 AM – 9:50 AM	Imaging Challenges We Face at MR-Linac ART	Arnold Pompos, PhD (UTSW)
9:50 AM – 10:00 AM	Image Synthesis and Quality Assurance for MR-Based Adaptive Treatment Planning	Jinzhong Yang, PhD (MDA)
10:00 AM – 10:10 AM	MR-Guided RT in the Upper Abdomen from SABR to PULSAR	Todd Aguilera, MD, PhD (UTSW)
10:10 AM – 10:20 AM	MRI Assisted Radiosurgery (MARS)	Steven Frank, MD (MDA)
10:20 AM – 10:30 AM	Open Discussion	
10:30 AM – 10:45 AM	Morning Break	
	Anatomic MR for Planning, Treatment Response and Delivery	Jihong Wang, PhD (MDA)
10:45 AM – 10:55 AM	Optimizing Sequences for Radiation Application	Jihong Wang, PhD (MDA)
10:55 AM – 11:05 AM	Integrating Diagnostic and Therapeutic Imaging Across Staging, Therapy and Surveillance	Jason Stafford, PhD (MDA)
11:05 AM – 11:15 AM	Open Discussion	
	Functional MR for Therapeutic Response and Adaptive Therapy	Clifton David Fuller, MD, PhD (MDA)
11:15 AM – 11:25 AM	Evaluations of Tumor Hypoxia in Pre-Clinical Models with Molecular Imaging	Marty Pagel, PhD (MDA)

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11:25 AM – 11:35 AM	Use of Functional MR Imaging for Adaptive Treatment for Prostate Cancer	Seungtaek Choi, MD (MDA)
11:35 AM – 11:45 AM	Advanced Diffusion MRI Reconstruction and Biophysical Model Fitting	Jie Deng, PhD (UTSW)
11:45 AM – 11:55 AM	Open Discussion	
11:55 AM – 1:10 PM	Lunch and Poster Walk	
12:20 PM – 12:50 PM	Optional Lunch Session - Sponsored by Telix Pharmaceuticals Limited "An update on Gallium 68 - PSMA -11" (No CME Awarded) – CPB 8, Room 4	Simon Trubek, MD (Austin Radiological Association)
	PET Imaging: From Diagnostic Towards Functional Therapy Guidance	Bin Cai, PhD (UTSW)
1:10 PM – 1:20 PM	Radiopharmaceuticals for Imaging, Prediction of Response, and Therapy	Charles Manning, PhD (MDA)
1:20 PM – 1:30 PM	Advanced PET Imaging in Gynecological Diseases	Lilie L. Lin, MD (MDA)
1:30 PM – 1:40 PM	Enhancing Patient Care with PET and RT	Orhan K. Oz, MD, PhD (UTSW)
1:40 PM – 1:50 PM	Overview of Biology Guided Radiotherapy (BgRT) Using the PET-Linac System	Bin Cai, PhD (UTSW)
1:50 PM – 2:00 PM	Open Discussion	
	AI Advances in Imaging Applications for RT	Kristy Brock, PhD (MDA) Mohamed Naser, PhD (MDA)
2:00 PM – 2:10 PM	Advancing Radiotherapy for Head and Neck Cancer with AI Applications	Mohamed Naser, PhD (MDA)
2:10 PM – 2:20 PM	AI-Driven Real-Time Imaging For Adaptive RT	You Zhang, PhD (UTSW)
2:20 PM – 2:30 PM	Innovations for Global Radiotherapy	Tucker Netherton, PhD (MDA) Hana Baroudi, MS (MDA)
2:30 PM – 2:40 PM	The Power of Uncertainty: Cultivating Physician Trust in AI Systems	Michael Dohopolski, MD (UTSW)
2:40 PM – 2:50 PM	Open Discussion	

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	Advancing Image-Guided RT through Innovative Trial Designs: Challenges and Opportunities for Imaging Integration in Clinical Trials	Chad Tang, MD (MDA)
2:50 PM – 3:00 PM	Prostate Cancer Clinical Trials Before and After PSMA PET Imaging	Chad Tang, MD (MDA)
3:00 PM – 3:10 PM	From Industry to Clinic Space: Lessons Learned from Clinical Trials with Imaging Integration	Aurelie Garant, MD (UTSW)
3:10 PM – 3:20 PM	Open Discussion	
3:20 PM – 3:35 PM	Afternoon Break	
	Design Trials for AI-Based IGRT: Testing for Clinical Usability and Outcome Improvement	David Sher, MD (UTSW)
3:35 PM – 3:45 PM	Practical Lessons from Integrating AI Into Two H&N Clinical Trials	David Sher, MD (UTSW)
3:45 PM – 3:55 PM	Adaptive Workflow Automation In Head Neck Cancer Towards Biomarker-Guided Therapy	Clifton David Fuller, MD, PhD (MDA)
3:55 PM – 4:05 PM	AI Approaches for Imaging Guided Therapy Across Therapeutic Disciplines (IR, RO Surgery)	Kristy Brock, PhD (MDA) Clifton David Fuller, MD, PhD (MDA)
4:05 PM – 4:15 PM	Open Discussion	
	Next Steps for Collaborative Trials	Steven Frank, MD (MDA) Neil Desai, MD (UTSW)
4:15 PM – 4:25 PM	MARS vs SBRT	Steven Frank, MD (MDA)
4:25 PM – 4:35 PM	Incorporating PSMA Imaging into Adaptive Prostate Cancer Radiotherapy Trials: Opportunities for Translating UT Science	Neil Desai, MD (UTSW)
4:35 PM – 4:45 PM	PULSAR Trials for GU Malignancies	Raquib Hannan, MD, PhD (UTSW) Chad Tang, MD (MDA)
4:45 PM – 4:55 PM	Open Discussion	
4:55 PM – 5:05 PM	Closing Remarks	Clifton David Fuller, MD, PhD (MDA) Neil Desai, MD (UTSW)
5:05 PM – 5:50 PM	Welcome Cocktail Reception & Poster Walk	