PRELIMINARY PROGRAM

Monday, April 14

7:00 AM

Registration & Breakfast

8:00 AM

Welcome and Introduction

- Michael P. Recht, MD, *Louis Marx Professor and Chair, Department of Radiology, NYU Langone Health, New York, NY, United States*
- Alec C. Kimmelman, MD, PhD, *Director, Laura and Isaac Perlmutter Cancer Center, Laura and Isaac Perlmutter Professor and Chairman, Department of Radiation Oncology, Associate Dean for Cancer Research, NYU Langone Health, New York, NY, United States*

8:30 AM

Clinical Evidence and Trial Progress in MRgRT

- Michael Chuong, MD, *Miami Cancer Institute, Miami, FL, United States*
- Anna Bruynzeel, MD, PhD, *Amsterdam University Medical Centers, Amsterdam, The Netherlands*
- Himanshu Nagar, MD, MS, *Memorial Sloan Kettering Cancer Center, New York, NY, United States*

10:00 AM

Proffered Papers 1 - Clinical Studies and Applications in MRgRT

Time	Title	Speaker
10:00 AM	A Super-Resolution model for auto-segmentation of low-resolution Prostate MR-Linac data	Rob Tijssen

10:10 AM	Simulation and Pre-Planning Omitted Radiation Therapy (SPORT): Advancing MR-Guided Adaptive Radiotherapy for Prostate Cancer	Tsuicheng Chiu
10:20 AM	Liver Function Preservation after Feraheme-Enhanced MRI-Guided SBRT on 1.5T MR-Linac in Patients with HCC and Advanced Hepatic Cirrhosis	Parisa Shamsesfandabadi

10:30 AM **Coffee Break**

11:00 AM **Sustainability in MRgRT: Strategies for Resource Management and Local Practices**

- Rob Tijssen, PhD, *Catharina Hospital, Eindhoven, The Netherlands*
- Daniel Hyer, PhD, *University of Iowa, Iowa City, IA, United States*

12:00 PM **Lunch**

1:00 PM ***Proffered Papers 2 - MRI for Treatment Planning***

Time	Title	Speaker
1:00 PM	Evaluating MR based ultra-hypofractionated focal boost to intraprostatic lesions for high-risk localized prostate cancer with histological reference	Tufve Nyholm
1:10 PM	Longitudinal per fraction lesion segmentation and tracking via few-shot deep learning for MR-guided	Josiah Simeth

	radiotherapy of prostate cancer patients	
1:20 PM	Identification of Radiotherapy Target Volumes in Glioblastoma using Advanced MRI and 18F-DOPA PET/CT	Eyesha Younus
1:30 PM	A simplified online adaptive workflow for long-course MR-guided radiotherapy in esophageal cancer	Koen Kuijer
1:40 PM	Investigating artefact-free online MR imaging during actively scanned proton therapy using a bi-directional whole-body in-beam MRI scanner	Emely Weichert
1:50 PM	Initial clinical experience of stereotactic body radiotherapy (SBRT) for lung metastases with target intrafraction tracking and gating by means 1.5T MR-Linac	Michele Rigo

2:00 PM

Improving Patient Throughput: Novel Workflows and Tools in MRgRT

- Eric Paulson, PhD, *Medical College of Wisconsin, Milwaukee, WI, United States*
- Harini Veeraraghavan, PhD, *Memorial Sloan Kettering Cancer Center, New York, NY, United States*
- Kathyrn Mittauer, PhD, *Miami Cancer Institute, Miami, FL, United States*

3:00 PM

Coffee Break

3:30 PM

Young Investigator Award Finalist Presentations

Time	Title	Speaker

3:30 PM	Patient-specific imaging modality agnostic virtual digit twins modeling temporally varying digestive motion	Jorge Tapias Gomez
3:40 PM	Towards a clinically-relevant computational platform for systematically adapting radiation therapy for treating glioma	Hugo J Miniere
3:50 PM	Highly-Accelerated, Time-Resolved 4D Golden-Angle Radial MRI with Self-Supervised Learning	Haoyang Pei
4:00 PM	A Longitudinal Study of Functional Connectivity Changes of Patients with Diffuse Glioma After Chemoradiotherapy using Aberrancy Parcel Map Analysis of Resting-state Functional MRI	Tong Zhu
4:10 PM	Correlation of histopathological cell density and hypoxic fraction with time-dependent diffusion MRI in glioblastoma	Minea Jokivuolle
4:20 PM	Deducing Cardiorespiratory Motion of Cardiac Substructures Using a Novel 5D-MRI Workflow for Radiotherapy	Chase Ruff
4:30 PM	Distortion-Free Diffusion-Weighted Imaging of the Prostate Using TGSE-Based Golden-Angle PROPELLER Acquisition and Deep Learning Denoising	Jingjia Chen
4:40 PM	Modality-AGnostic Image Cascade: Cross-Modality MAGIC for improved MR-Linac Cardiac Segmentation	Nicholas Summerfield
4:50 PM	Segmentation Regularized Registration Training Improves Multi-Domain Generalization of Deformable Image Registration for MR-Guided Prostate Radiotherapy	Sudharsan Madhavan

5:00 PM	**Novel Imaging Biomarkers: Leveraging Quantitative MRI for Image-Guided Adaptive Radiotherapy** • Faisal Mahmood, PhD, *Odense University Hospital, Odense, Denmark* • Michael Dubec, PhD, *University of Manchester, Manchester, United Kingdom* • Angus Lau, PhD, *Sunnybrook Health Sciences Centre, Toronto, Canada*
6:30 PM	**Reception (Location TBA)**