

# PRELIMINARY PROGRAM

*Monday, April 14*

7:00 AM

**Registration & Breakfast**

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## **Welcome and Introduction**

8:00 AM

- Michael P. Recht, MD, *NYU Langone Health, New York, NY, United States*
  - Alec C. Kimmelman, MD, PhD, *NYU Langone Health, New York, NY, United States*
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## **Clinical Evidence and Trial Progress in MRgRT**

8:30 AM

- 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*
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## **Proffered Papers 1 - Clinical Studies and Applications in MRgRT**

10:00 AM

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	Tsuicheng Chiu

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	Prostate Cancer	
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**

### ***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 radiotherapy of prostate cancer patients	Josiah Simeth
1:20 PM	Identification of Radiotherapy Target	Eyesha Younus

	Volumes in Glioblastoma using Advanced MRI and 18F-DOPA PET/CT	
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

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### Improving Patient Throughput: Novel Workflows and Tools in MRgRT

2:00 PM

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

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3:00 PM

### Coffee Break

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### Young Investigator Award Finalist Presentations

3:30 PM

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*
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6:30 PM

**Reception (Location TBA)**

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