

Radiological and Medical Physics Society of New York, Inc.



2024 RAMPS Annual Symposium

Adaptive Radiation Therapy: Current Development and Future Prospects

Friday September 6th, 2024
9:00 am – 4:15 pm

Bohemian National Hall
321 E 73rd St, New York, NY 10021

Continuing Education:

This meeting has applied to CAMPEP for approval of 3.75 MPCEC hours.

Meeting Program:

Time	
09:00 - 09:30	Registration, Visit the vendors Coffee and Beverages
09:30 - 09:40	Welcome Xiang Li, PhD; President, RAMPS, Department of Medical Physics, MSKCC Introduction Ren-Dih Sheu, PhD; President-Elect, RAMPS, Department of Rad Onc, Mount Sinai Hospital, New York
09:40 - 10:25	Advancing MR-guided online adaptive radiotherapy using a 1.5 T MR-Linac system Neelam Tyagi, PhD Memorial Sloan-Kettering Cancer Center, New York, NY
10:25 - 11:10	Online adaptive RT – Ethos system Overview of Ethos ART at Columbia: Implementation and Best Practices Columbia’s Clinical Journey in Targeted Dose Escalation Using CBCT on Ethos Michael Price, PhD and Yi-Fang Wang, PhD Columbia University, New York, NY

11:10 – 11:30	Vendor Presentations
11:30 – 12:20	Showcase with vendors
12:20 – 01:20	Lunch/Coffee – Visit the vendors
01:20 – 02:05	Adaptive Radiotherapy in Proton Therapy Pingfang Tsai, PhD New York Proton Center, New York, NY
02:05 – 02:50	Pause to Perfect: The Promise of Offline Adaptive Radiotherapy Laura Cervino, PhD and Michalis Aristophanous, PhD Memorial Sloan-Kettering Cancer Center, New York, NY
02:50 – 03:20	Coffee Break – Visit the Vendors
03:20 – 04:05	Adaptive Radiotherapy: Online or Offline? MR or X-ray? Discover Your Optimal Flavor! Mu-Han Lin, PhD UT Southwestern Medical Center, Dallas, TX
04:05 – 04:15	Closing Remarks

Learning Objectives

After participating in the sessions of this symposium, attendees shall be able to recognize:

1. Advancing MR-guided online adaptive radiotherapy using a 1.5 T MR-Linac system
 - To summarize state-of-the-art practices in MR-guided adaptive RT, criteria for patient selection, planning delivery, and QA on the MR-Linac-based MR-guided radiotherapy.
2. On-line adaptive RT – Ethos system
 - Overview of Ethos ART at Columbia: Implementation and Best Practices
 - Columbia's Clinical Journey in Targeted Dose Escalation Using CBCT on Ethos
 - Ethos online adaptive radiotherapy system and overview of Columbia's workflow
 - Factors to consider (technical, clinical, and effort) and potential challenges when implementing an oART program via Ethos
 - Elements of Columbia's clinical workflow for oART, including overall process, plan generation, and at-console activities
 - The success of patient treatments at Columbia that has given us the confidence to utilize targeted dose escalation for a subset of diseases.
3. Adaptive Radiotherapy in Proton Therapy
 - To provide a comprehensive understanding of adaptive radiotherapy in proton therapy, including its principles, technological advancements, status, and challenges, as well as the benefits of personalized treatment plans in improving patient outcomes.
4. Pause to Perfect: The Promise of Offline Adaptive Radiotherapy
 - Provide an overview of adaptive radiotherapy techniques and appropriate uses
 - Challenges of offline adaptive radiotherapy
 - Review of existing head and neck offline adaptive radiotherapy program
5. Adaptive Radiotherapy: Online or Offline? MR or X-ray? Discover Your Optimal Flavor!
 - review clinical evidences of online/offline adaptive therapy
 - discuss the barriers and potential solutions of implementing online adaptive therapy

Registration

Registration is by PayPal: https://chapter.aapm.org/ramps/RAMPS/Symposium_2024.html

In-person and virtual registration are available:

In-person registration	before Aug 31st, 2024	after Aug 31st, 2024
RAMPS Members	\$85	\$95
Non-Members	\$110	\$120
Student/Resident/Postdoc (with an attesting letter or ID)	\$5	\$5
Member plus Guest	\$190	\$200

Virtual registration

RAMPS Members	\$35
Non-Members	\$45
Student/Resident/Postdoc (with an attesting letter or ID)	\$5
(The Zoom meeting link will be sent to attendees who registered for the virtual option a day before the event. If you don't receive it, please contact RAMPS NY_AAPM_chapter at rampsnyc@gmail.com).	

For Students/Residents

A \$5.00 fee + plus a letter from the advisor attesting status or student ID is required at registration.

Accreditation Statement

This meeting has been approved for 3.75 MPCEC hours.

Vendor's sponsors:

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