

Parent Name: Radiation Oncology Grand Rounds 2025

Event Name: Radiation Oncology Grand Rounds 2025 Next-Generation Radiation Response

Models: Mechanistic AI

Start Time: Monday, December 15, 2025, 12:00 PM

End Time: Monday, December 15, 2025, 1:00 PM

Activity Format: Live Activity

Location: Online

Activity Description:

The Radiation Oncology Grand Rounds Series will include nationally and internationally recognized thought leaders who have expertise in clinical, academic, and research interests in Radiation Oncology, Medical Physics and Cancer Biology Research. The Series will also include lectures from the University of Miami Department of Radiation Oncology Faculty Members.

Target Specialties:

Radiation Oncology

Target Professions:

Physician, Non-Physician, Medical Student, Nurse, Nurse Practitioner, Physician Assistant, Researcher, Resident, Scientist

Objectives:

- 1 Clarify the distinction between complicated and complex systems and show how this perspective reshapes our understanding of cancer behavior and treatment.
- 2 Explain how, in the battle against cancer, progress in developing interventions, strategies, and intelligence has been uneven and how that imbalance constrains therapeutic impact.
- 3 Present the path to a next-generation multi-layer hybrid modeling framework that integrates mechanistic cell dynamics, agent-based tissue simulation, and deep-learning compression to enable mechanistic predictive tumor modeling.

AMA Credit: 1.00

Faculty List:

Behzad Ebrahimi, PhD, DABR

The University of Chicago Department of Radiation and Cellular Oncology Section of Medical

Physics

Faculty & Planners:

Name of individual	Individual's role in activity	Nature of Relationship(s) / Name of Ineligible Company(s)
Markus Bredel, MD, PhD	Co-Director	Honoraria-Varian Medical Systems - 01/07/2025
Yamira Cuervo-Lantes	Activity Administrator	Nothing to disclose - 12/04/2025
Behzad Ebrahimi, PhD, DABR	Faculty	
Brandon A Mahal, MD	Course Director	Nothing to disclose - 03/13/2025
Shannon L O'Neil, BA	Activity Coordinator	
Benjamin Spieler, MD	Other Planning Committee Member	Grant or research support-Siemans (Any division) - 02/04/2025
Crystal Taswell, MD	Other Planning Committee Member	Nothing to disclose - 02/04/2025

Commercial Support:
none

The University of Miami Leonard M. Miller School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The University of Miami Leonard M. Miller School of Medicine designates this Live Activity for a maximum of 1.00 of AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.