

NEW DEVELOPMENTS IN PRECISION RADIATION ONCOLOGY & RADIOGENOMICS INAUGURAL SYMPOSIUM

JUNE 16, 2022 | THE ALEXANDRIA AT TORREY PINES, LA JOLLA, CALIFORNIA

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AGENDA

8:00AM — Registration and Continental Breakfast

8:45AM — **Organizer Welcome**

Ida Deichaite, PhD, Radiation Medicine & Applied Sciences, Moores Cancer Center, UC San Diego

8:50AM — **Health Sciences Welcome**

David Brenner, MD, Vice Chancellor, Health Sciences, UC San Diego School of Medicine

9:00AM — **Radiation Medicine Welcome**

Arno J. Mundt, MD, Chair, Radiation Medicine & Applied Sciences, UC San Diego

Session: Personalizing Treatment Utilizing Biomarkers

Moderators: Søren Bentzen, PhD, DMSc, University of Maryland School of Medicine

Vitali Moiseenko, PhD, Radiation Medicine & Applied Sciences, Moores Cancer Center, UC San Diego

9:10AM — *Imaging and Molecular Biomarkers for Personalized Radiotherapy*

Issam El Naqa, PhD, Moffitt Cancer Center

9:25AM — *Personalized radiotherapy: incorporating cellular response to irradiation in personalized treatment planning to minimize radiation toxicity*

Tiziana Rancati, PhD, Fondazione IRCCS Istituto Nazionale dei Tumori di Milano

9:40AM — **Q&A and Discussion**

Session: Big Data & Population Based Modeling

Moderators: Joseph Deasy, PhD, Memorial Sloan Kettering Cancer Center

Andrew Sharabi, MD, PhD, Radiation Medicine & Applied Sciences, Moores Cancer Center, UC San Diego

9:55AM — *Can we exploit patient-to-patient variability in radiation response for therapeutic gain?*

Søren Bentzen, PhD, DMSc, University of Maryland School of Medicine

10:15AM — *Lessons of QUANTEC and HyTEC: is there a roadmap from population-based analysis to personalized treatment?*

Jimm Grimm, PhD, Geisinger Medical Center, Thomas Jefferson University

10:30AM — *Personalization through standardization: how automation is enabling precision radiotherapy*

Kevin Moore, PhD, Radiation Medicine & Applied Sciences, Moores Cancer Center, UC San Diego

10:45AM — **Q&A and Discussion**

11:00AM — Break

Session: Personalizing Treatment Utilizing Radiogenomics

Moderators: Jimm Grimm, PhD, Geisinger Medical Center, Thomas Jefferson University
Arno J. Mundt, MD, Chair, Radiation Medicine & Applied Sciences, UC San Diego

11:20PM – **Keynote Presentation: Utilizing Precision Radiotherapy to Improve the Therapeutic Ratio**

Carmen Bergom, MD, PhD, Washington University School of Medicine in St. Louis

11:50PM – *Impact of genomic alterations on response to treatment and prognosis in head and neck squamous cell carcinoma*

Austin Hopper, MD, Radiation Medicine, Moores Cancer Center, UC San Diego

12:05PM – **Q&A and Discussion**

12:20PM – Lunch & Poster Session

Session: Optimizing Implementation of Adaptive RT

Moderators: Issam El Naqa, PhD, Moffitt Cancer Center

Tiziana Rancati, PhD, Fondazione IRCCS Istituto Nazionale dei Tumori di Milano

1:40PM – **Session Introduction**

Ezra Cohen, MD, FRCPSC, FASCO, Chief, Hematology-Oncology, Moores Cancer Center, UC San Diego

1:45PM – **Patient Advocacy Presentation: The long and winding road**

Frank Biddle, Patient Advocate

1:55PM – *Predictive and adaptive radiotherapy: combining twin revolutions*

Joseph Deasy, PhD, Memorial Sloan Kettering Cancer Center

2:10PM – *Adaptive Radiotherapy: an Emerging Tool for Precision Radiation Oncology*

Heather Curry, MD, Varian, a Siemens Healthineers company

2:25PM – **Q&A and Discussion**

2:40PM – Break

3:00PM – *Modeling the impact of integral dose in radiation-induced lymphopenia*

Harald Paganetti, PhD, Massachusetts General Hospital, Harvard Medical School

3:15PM – *Patient stratification strategies to maximize utilization of adaptive RT platforms*

Vitali Moiseenko, PhD, Radiation Medicine & Applied Sciences, Moores Cancer Center, UC San Diego

3:30PM – *Identifying the highest priority cervical cancer patients for daily adaptation*

Xenia Ray, PhD, Radiation Medicine & Applied Sciences, Moores Cancer Center, University of California San Diego

3:45PM – **Keynote Presentation: Potential limitations on the promise of personalized and adaptive RT**

Lawrence Marks, MD, UNC Lineberger Comprehensive Cancer Center

4:25PM – **Q&A and Discussion**

4:40PM – **Closing Remarks**

Todd Pawlicki, PhD, FAAPM, FASTRO, Vice Chair, Medical Physics, Radiation Medicine, UC San Diego

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