

UNIVERSITY OF MARYLAND
DEPARTMENT OF RADIATION ONCOLOGY

SCHEDULE OF
PRESENTATIONS AND ACTIVITIES

ASTRO'S 67TH ANNUAL MEETING



REDISCOVERING RADIATION MEDICINE
AND EXPLORING NEW INDICATIONS

2025 Annual Meeting
San Francisco, CA
September 27–October 1

All abstracts are available in the October 2025 [supplement](#) to the
International Journal of Radiation Oncology, Biology, Physics (see Author Index, A5)

SUNDAY, SEPTEMBER 28 PRESENTATIONS

11:00 AM–3:00 PM ROOM 154 MODERATOR

ASPP Aspiring Scientists and Physicians program headed by the Workforce Diversity Committee, subcommittee of the HEDI Council
Vyfhuis M

11:00 AM–3:00 PM ROOM 154 ORAL

Speed mentoring
Vyfhuis M

11:00 AM–3:00 PM ROOM 154 PANEL PARTICIPANT

Career Pathways Panel
Marter K

2:30–4:00 PM HALL F POSTER

Clinical toxicity profiles of neoadjuvant volumetric modulated arc radiotherapy and proton beam radiotherapy for soft tissue sarcoma: a single-institution retrospective analysis
Allen A, Sun K, Olabumuyi AA, Keepers Z, Valluri SS, Cherng HRR, Bentzen SM, Kim M, Kunaprayoon D, Regine WF

2:30–4:00 PM HALL F POSTER

3D Segment Anything Model (SAM) for 3D protoacoustic imaging enhancement and in vivo dose verification in proton therapy
Lang Y, Jiang Z, Sun L, Xu Y, Buller J, Tran P, Xiang L, Ren L

2:30–4:00 PM HALL F POSTER

Improving proton dose calculation accuracy using ROI-focused AI deep learning network for CBCT based adaptive proton therapy
Qiao Z, Yao W, Zhang Z, Zhang B, Beltran C, Yi BY, Paulson ES, Ren L, Fang R, Huang M

2:30–4:00 PM HALL F POSTER

Proton range-based patient setup
Yao W, Yi BY, Huang M, Zhang B

2:30–4:00 PM HALL F POSTER

Optimal proton energy layer space for arc therapy of brain with pencil beam scanning
Yi BY, Jatczak J, Modiri A, McFarlane MJ

2:45–6:00 PM HALL F POSTER

A novel imaging biomarker for radiation induced cardiotoxicity
Modiri A, Vogelius I, Terrones Campos C, Kutnar D, Sawant A, Petersen

4:45–6:00 PM HALL F POSTER

Outcomes of patients with intracranial germinoma enrolled on the Pediatric Proton Photon Consortium Registry

Cha E, Mihalcik SA, Indelicato DJ, Laack NN, Ermoian RP, Mangona VS, Perkins SM, Wolden SL, Lee JY, Perentesis JP, Palmer JD, Tsang DSC, Hill-Kayser CE, Kwok Y, MacEwan I, Eaton BR, Le HV, Paulino AC, Yock TI

5:35–5:45 PM ROOM 305/306 ORAL

A multi-site single-arm phase I/II trial of selective avoidance of nodal volumes at minimal risk (SAVER) in the contralateral N0 neck of patients with p16-positive oropharynx cancer
Molitoris J, Witek M, Ferris M, Kitzmiller K, Krc R, Jatczak J, Schotz K, Weir K, Lehman K, Tyler T, Steacy K, Wolf J, Moyer K, Cullen K, Taylor R, Bentzen S, Regine W, Mehra R, Hatten K

MONDAY, SEPTEMBER 29 PRESENTATIONS

8:00–9:00 AM HALL F POSTER

Evaluating neurocognitive improvement following stereotactic radiosurgery and whole brain radiation therapy: A pooled analysis of two phase III trials

Zarinshenas R, Cherng H-R, Sun K, Bentzen S, Brown P, Armstrong T, Palmer J, Gondi V, Mehta M, Mishra M

8:00–09:00 AM HALL F POSTER

Virtual medical student education in a post-pandemic world: lessons from a multi-institutional virtual radiation oncology clerkship

Eakin J, Wairiri LW, Fields EC, Kumar KA, Rosenberg SA, Frakes JM, Park HSM, Rudra S, Parekh A, Beriwal S, Rana ZH, Mohindra P, Williamson CW, Kahn JM

10:45 AM–12:00 NOON HALL F POSTER

The genomic landscape of human papillomavirus positive early-stage oropharyngeal carcinoma

Brown M, Mendes W, Song Y, Shetty A, Witek M, Mehra R, Hatten K, Taylor R, Moyer K, Wolf J, Tyer T, Steacy S, Eggleston C, Datnow-Martinez C, Gaykalova D, Regine W, Ren L, Tran P, Ferris M, Molitoris J

11:05 –11:15 AM Room 22/23 ORAL

Prediction of metastasis-free survival in patients with prostate adenocarcinoma using primary tumor and lymph node radiomics from pre-treatment PSMA-PET/CT scans

Singh A, Mendes W, Oh S, Guler OC, Sawant A, Tran P, Onal HC, Ren L

1:30–4:00 PM SF BALLROOM ORAL LATE-BREAKING ABSTRACTS

Phase III randomized trial of proton vs. photon therapy for patients with non-metastatic breast cancer receiving comprehensive nodal radiation: A Radiotherapy Comparative Effectiveness (RadComp) Consortium trial: Health-related quality of life outcomes

MacDonald SM, Pugh S, Paulus R, Chauhan C, Braunstein LZ, Freedman GM, Jimenez RB, Kim JN, Thukral AD, Mishra MV, Mutter RW, Wright JL, Urbanic JJ, Ohri N, Boggs H, Chawla AK, Ellenberg S, Lin A, Ky B, Bekelman JE

3:00–4:00 PM HALL F POSTER

Proton vs. photon: predictors of cardiac and pulmonary toxicities in locally advanced breast cancer patients

Mathai M, Thompson A, Escobal LH, Singh G, Alicia D, Ruff S, Koduri S, Kidorf M, Ferris M, Cheston S, Citron W, Patel A, Rao M, McAvoy S, Nichols E, Dudley S, Vyfhuis M

5:00–6:00 PM HALL F POSTER

The effect of residing in a food-insecure area on locally advanced breast cancer survival

Thompson A, Escobal LHDD, Mathai M, Singh G, Alicia D, Ruff S, Kidorf M, Koduri S, Ferris MJ, Cheston S, Patel A, Rao M, McAvoy S, Nichols E, Citron W, Dudley S, Vyfhuis MAL

5:00–6:00 PM HALL F POSTER

Translational relevance of SOX2 and OCT4 as mediators of treatment resistance in pancreatic cancer

Keepers Z, Roy S, Ryan H, Bhandary B, Lamichhane N, Carrier F, Molitoris JK, Regine WF, Shukla HD

5:00–6:00 PM HALL F POSTER

Effect of acute high dose TBI on RBC dysfunction and erythropoiesis in C57BL/6J mice

Valluri SS, Setua S, Pal S, Thangaraju K, Pandey S, Davies E, Buehler P

5:00–6:00 PM HALL F POSTER

3-Bromopyruvate in combination with radiation inhibits pancreatic tumor growth by suppressing hexokinase II (HK2) enzyme of aerobic glycolysis

Shukla HD, Roy S, Bhandary B, Keepers Z, Bark R

MONDAY, SEPTEMBER 29 PRESENTATIONS (CONT.)

5:00–6:00 PM HALL F POSTER

Evaluating the correlation between genomic classifier and digital pathology-based multi-modal ai biomarkers in localized prostate cancer

Olabumuyi S, Jordan O, Chang JH, Datnow-Martinez C, Delacroix SE, Spratt DE, Shi X, Liu Y, Davicioni E, Huang HC, Tierney M, Kim M, Kanani SP, Rana ZH, Molitoris JK, Mishra MV, Kwok Y, Sutera P, Deek MP, Tran PT

5:00–6:00 PM HALL F POSTER

Effect of acute high dose TBI on RBC dysfunction and erythropoiesis in C57BL/6J mice

Valluri SS, Setua S, Pal S, Thangaraju K, Pandey S, Davies E, Buehler P

5:25–5:35 PM ROOM 314 ORAL

Is patient-reported baseline fatigue associated with overall survival among patients with resected head of the pancreas adenocarcinoma on NRG Oncology/RTOG 0848?

Kachnic LA, Winter K, Abrams RA, Regine WF, Goodman KA, Lowy AM, Seaward SA, Wu AJ, Ramalingam A, Hatoum H, DiPetrillo TA, Geva R, Haddock MG, Wu JJ, Moughan J, Movsas B, Hong TS

TUESDAY, SEPTEMBER 30 PRESENTATIONS

8:02–8:17 AM ROOM 154 ORAL

Radiation Oncology-Biology Integration Network (ROBIN) - Oligometastasis Center

Tran PT

11:00–11:15 AM SAN FRANCISCO BALLROOM AWARD CEREMONY

Gold Medal tribute to Dr. Lawrence Marks

Bentzen S

12:45–2:00 PM HALL F POSTER

Timing of molecular PET imaging after salvage radiation therapy for recurrent oligometastatic castration-sensitive prostate cancer

Wang J, Shetty AC, Song Y, Shi X, Radwan N, Song D, DeWeese TL, Deek MP, Onal HC, Ren L, Kiess AP, Tran PT, Sutera P

1:45–1:55 PM ROOM 154 ORAL

A multicenter, blinded, intensity modulated proton therapy competitive planning study for head and neck cancers: The urgency for guidelines and standards

Snider JW, Mossahebi S, Ramirez S, Molitoris JK, Chhabra AM, Mundis M, Soike M, Butkus M, Vai A, Lebhertz D, Hartl B, Navratil M, Hedrick SG, Hoene T, Anand A, Yusuf MB, Zhang X, Frank SJ

2:30–3:45 PM HALL F POSTER

Outcomes of re-irradiation with pencil beam scanning proton therapy for rectal cancer following prior pelvic radiation: Toxicity, recurrence, and symptom improvement

Thompson A, Koroulakis A, Patel A, Molitoris JK, Regine WF, Vyfhuis MAL, Kanani SP, Kunaprayoon D, Kim M

3:10–3:20 PM ROOM 20/21 ORAL

Interpretable deep learning predicts metastasis-free survival (MFS) from conventional imaging for oligometastatic castration-resistant prostate cancer (omCPSC) using multi-modality PSMA PET and CT imaging

Cao Y, Sutera P, Mendes W, Sawant A, Marchionni L, Simone N, Tran P, Onal CH, Ren L

TUESDAY, SEPTEMBER 29 PRESENTATIONS (CONT.)

4:00–5:00 PM HALL F POSTER

AI-driven graph-based radiomics: Enhancing imaging biomarkers reproducibility in multi-institutional head and neck cancer management

Moradmand H, Molitoris J, Schumaker L, Allor E, Krc R, Tran P, Sawant A, Mehra R, Gaykalova DA, Ren L

5:45–5:50 PM ROOM 155/157 QUICK PITCH ORAL

Multi-institutional phase II trial using dose escalated five fraction stereotactic partial breast irradiation (S-PBI) with a cobalt stereotactic unit for early-stage breast cancer

Rahimi A, Kim DWN, Parsons DDM, Leitch M, Nichols EM, Chiu TD, Gu X, Lu W, Becker SJ, Alluri PG, Nwachukwu CR, Ahn C, Zhang Y, Stein M, Puliyadi V, Farr D, Wooldridge R, Bahrami S, Stojadinovic S, Timmerman RD

WEDNESDAY, OCTOBER 1, PRESENTATIONS

8:15–8:20 AM ROOM 155/157 QUICK PITCH ORAL

Discordance of adverse molecular features between the 22-gene genomic classifier score, histologic grade, and NCCN risk groups: Analysis of over 200,000 patients

Zelevsky MJ, Ryu HM, Tran PT, Proudfoot J, Hao Y, Alshalalfa M, Davicioni E, Febbo P, Desai NB, Hu JC, Briganti A, Schaeffer EM, Ross AE, Jia AY, Wise DR, Spratt DE

8:30–8:35 AM ROOM 155/157 QUICK PITCH ORAL

Evaluating molecular response using ⁶⁸Ga-PSMA-PET/CT in prostate cancer patients with pelvic lymph node metastasis undergoing definitive radiotherapy: Clinical significance and implications

Onal HC, Guler OCC, Torun N, Demirhan B, Elmali A, Hürmüz P, Deek M, Tran PT, Reyhan M, Murthy V

10:40–10:50 AM ROOM 154 ORAL

Validation of six androgen production, uptake and conversion genes (APUC-6) in the ECOG-ACRIN E3805 CHARTED Prostate Cancer Trial

Shi X, Shetty AC, Wang J, Song Y, Sutera P, Deek MP, Phillips R, Tang C, Proudfoot J, Davicioni E, Nguyen PL, Sweeney C, Boytim E, Ryan CJ, Antonarakis E, Hwang J, Tran PT

10:50–11:00 AM ROOM 154 ORAL

Hallmark interferon-alpha response analysis in localized prostate cancer: Analysis of the NRG Oncology/RTOG 9202, 9413, 9902, 0126, and 0521 clinical trials

Olson C, Wang H, Hall WA, Tran PT, Nguyen-Tan PF, Michalski JM, Sandler HM, Roach M, Rosenthal SA, Yee D, Winquist E, Shah AB, Currey AD, Kapadia NS, Duclos M, Lukka H, Streeter OE, Efstathiou JA, Pugh S, and Nguyen PL

UNIVERSITY OF MARYLAND DEPARTMENT OF RADIATION ONCOLOGY WELCOME DINNER RECEPTION

Sunday, September 28; 6:30–9:30 PM

Rooftop 25, 25 Lusk Street

San Francisco, CA

PROFILES IN EXCELLENCE: CONTRIBUTIONS OF AFRICAN AMERICANS TO RADIATION ONCOLOGY

Tuesday, September 30, 12:45–2:00 PM Room 152

Featuring: Contributions of Dr. Carl Mansfield to Advances in
Radiation Oncology Over a 40-Year Career