

THE PENN RADIATION ONCOLOGY SPOTLIGHT



Conference Supplement

Saturday, September 28, 2024

ASTRO Annual Meeting

Session: Workshop 02 - Radiopharmaceutical Therapy Workshop

2:20 - 2:40 pm

Presenter: Neil Taunk, MD, MSCTS

Title: *Masterclass in Radiopharmaceutical Therapy*

Author: Neil Taunk, MD, MSCTS

Panel Discussion

Saturday, September 28, 2024

ADROP Annual Meeting

3:00 - 5:00 pm

Presenter: Cordelia Baffic

Title: *ADROP Yearly Update*

Author: Cordelia Baffic

Oral Presentation

Sunday, September 29, 2024

ASTRO Annual Meeting

Session: SS 03 - Phys 1: Dosimetry and Treatment Planning

8:00 - 9:00 am

Moderator: Dimitris Mihailidis, PhD, FASTRO

Presenter: Lin Ma, PhD

Title: *DeepTuning: A Novel Deep Learning Approach for Interactive Plan Tuning and Trade-Off Exploration*

Oral Presentation

Presenter: Brook Byrd, PhD

Title: *Initial Clinical Experience of Cherenkov Imaging in Sub-Total Total Skin Electron Therapy Identifies Opportunities to Improve Daily Set-Up QA*

Authors: Brook Byrd, Yifeng Zhu, Daniel Alexander, Monica Chelius, Gary Freedman, Michael LaRiviere, John Plastaras, Timothy Zhu

Oral Presentation

Sunday, September 29, 2024

ASTRO Annual Meeting

Session: Latin America 2024

2:30 - 5:30 pm

Presenter: Michelle Alonso-Basanta, MD, PhD

Title: *Brain Metastatic Update of Clinical Trials*

Author: Michelle Alonso-Basanta, MD, PhD

Oral Presentation

Sunday, September 29, 2024

ASTRO Annual Meeting

Poster Viewing

4:45 - 6:00 pm

Presenter: Hefei Liu, MD, MS

Title: *Evaluation and Validation of Open Access Knowledge Based Planning (KBP) Model in India Developed for Treatment of Bilateral Head and Neck Cancer*

Authors: Hefei Liu, MD, MS; Suresh Chaudhari, M.Sc., DipRP; Rajasekar M. Murugan, M.Sc.; Man Gobinda Chowdhury, M.Sc., DipRP; Monika Duhan M.Sc.; Mahender Damera, M.Sc., DipRP; Gattu Upendar, M.Sc., DipRP; Ryan Clark, MS, CMD; Anthony Magliari, MS, CMD; Sushil Beriwal, MD, MBA

Poster Presentation

Presenter: Hefei Liu, MD, MS

Title: *Evaluation of Scriptable Surface Area Informed Optimization (SAIO) to Enhance a Vendor Automated Multi-Metastases Planning Solution*

Authors: Dharmin Desai, Ivan Cordrey, Ellis Johnson, Anthony Magliari, Per Halvorsen, Raymond Schulz, Hefei Liu, Sushil Beriwal

Poster Presentation

Monday, September 30, 2024

ASTRO Annual Meeting

Session: SS 14 - Phys 2 Advanced Imaging

8:00 - 9:00 am

Moderator: Kevin Teo, PhD

Panel Discussion

Monday, September 30

ASTRO Annual Meeting

PQA 03 - Gynecological Cancer, Pediatric Cancer, and Professional Development
Q&A

8:00 - 9:00 am

Presenter: Cecilia Jiang, MD

Title: *Bulky Primary Thoracic Sarcomas in Children Treated with Preoperative Proton Radiotherapy*

Authors: Cecilia Jiang, Casey Mogilevsky, Goldie Kurtz, Theodore Laetsch, Naomi Balamuth, Julie Stern, Tracey Jubiliner, Richard Womer, Elizabeth Cummings, Stephanie Fuller, Peter Mattei, Christine Hill-Kayser

Poster Presentation

Presenter: Courtney Misher, RT(T), BS, MPH

Title: *Transforming into a Trauma-Informed Care Radiation Oncology Department: Training Program Design, Execution, and Evaluation of Our Program's Impact*

Authors: C. Bach, C. Misher, S. Villalona, M. Iocolano, J. M. Metz, and C. E. Hill-Kayser

Poster Presentation

Monday, September 30, 2024

ASTRO Annual Meeting

Concurrent Sessions

10:45 - 12:00 pm

Session: International 04 - Lancet Oncology Commission on Theranostics and Radiotherapy: Toward Bridging the Gaps in Cancer Radiotherapy Access for All

Presenter: Surbhi Grover, MD

Title: *Data on Global Utilization and Challenges in Radiotherapy the Example of SBRT in Different World Regions*

Oral Presentation

Monday, September 30, 2024

ASTRO Annual Meeting

Concurrent Sessions

10:45 - 12:00 pm

Session: SS 18 - Heme 2: Breaking Through Resistance: Novel Approaches in NHL Radiation Therapy

Moderator: Michael LaRiviere, MD

Discussant: John Plataras, MD, PhD

Presenter: Harper Hubbeling, MD

Title: *Improvement in Radiomic Features Following Bridging Therapy is Prognostic for CD19 Chimeric Antigen Receptor (CAR) T-Cell Therapy Outcome*

Authors: Harper Hubbeling, Doris Leithner, Emily A. Silverman, Jessica Flynn, Sean Devlin, Gunjan Shah, Beatrice Fregonese, Beatriz W. Sanin, Akshay Bedmutha, Ana Alarcon Tomas, Allison Parascondola, Amethyst Saldia, Ivan Landego, Carla Hajj, Alexander P. Boardman, Parastoo B. Dahi, Arnab Ghosh, Sergio Giralt, Richard J. Lin, Jae Park Michael Scordo, Gilles Salles, Joachim Yahalom, M. Lia Palomba, Heiko Schöder, Miguel-Angel Perales, Roni Shouval, and Brandon S. Imber

Panel Discussion

Session: SS 16 - Lung 3: Clinical Trials of Chemoradioimmunotherapy and Risk Adapted Radiotherapy for Advanced Lung Cancer

Presenter: Emily Lebow, MD

Title: *Phase II Trial of Concurrent Durvalumab and Radiation Therapy for Locally Advanced Lung Cancer*

Authors: Emily Lebow, Kelly Fitzgerald, Narek Shaverdian, Rupesh Kotecha, Daniel Gomez, Abraham Wu, Daphna Gelblum, Annemarie Shepherd, Charles Simone, Zhigang Zhang, Nicolas Toubacaris, Ellen Yorke, Juliana Eng, Kenneth Ng, Afsheen Iqbal, Mark Kris, Andreas Rimner

Oral Presentation

Session: EDU 24 - Integration of HPV ctDNA Testing into Clinical Practice for HPV + OPSCC - Ready for Prime Time?

Moderator: John Nicholas Lukens, MD

Panel Discussion

Monday, September 30, 2024

ASTRO Annual Meeting

Concurrent Sessions

10:45 - 12:00 pm

Session: PQA 04 - Palliative Care and Central Nervous System Poster Q&A

Presenter: Cecilia Jiang, MD

Title: *Outcomes of Palliative Whole Posterior Fossa Radiotherapy for Adult Brain Metastases*

Authors: Cecilia Jiang, Tara McWilliams, Zayne Belal, Emily Lebow, Harper Hubbeling, James Kolker, Suneel Nagda, Goldie Kurtz, Michelle Alonso-Basanta

Poster Presentation

Monday, September 30, 2024

Astro Annual Meeting

Session: PQA 05 - Breast Cancer and Nonmalignant Disease Poster Q&A

3:00 - 4:00pm

Presenter: Matthew Riina, MD

Title: *Complications of Post-Mastectomy Radiotherapy in Immediate Two-Stage Implant Reconstruction: Contemporary Outcomes at an Academic Hospital System*

Authors: Matthew Riina, Eva Berlin, Neil Taunk, Said Azoury, Joseph Serletti, Gary Freedman

Poster Presentation

Monday, September 30, 2024

ASTRO Annual Meeting

Concurrent Sessions

5:00 - 6:00 pm

Session: International 06 – Building Radiation Capacity in Africa through Collaborations in Research and Training – Voices from ASTRO and AORTIC Members

Moderator: Surbhi Grover, MD, MPH

Session: SS 26 - Sarcoma 1: Optimizing Treatment Outcomes in Soft Tissue Sarcoma and Melanoma

Presenter: Nick Lukens, MD

Title: Immune Profiling of "Radvax" Abscopal Responses in Metastatic Melanoma Patients Progressing on Anti-PD1 Therapy Treated with Hypofractionated Radiotherapy (HFRT) to One Lesion Combined with Pembrolizumab

Authors: J. N. Lukens, A. C. Huang, A. J. Minn III, and A. Maity

Oral Presentation

Session: PQA 06 - Biology and Patient Reported Outcomes/QoL/Survivorship Poster Q&A

Presenter: Cole Friedes, MD

Title: Correlation of Dual-Energy CT Functional Lung Ventilation and Perfusion Imaging with Patient Reported Quality of Life (QoL): Results of a Prospective Pilot Study

Authors: Cole Friedes MD, Casey Hollawell MD, Daniel Alexander PhD, Taylor Avery BA, Ching Lai BA, Michelle Iocolano MD, Nikhil Yegya-Raman MD, Shannon O'Reilly PhD, Wei Xu MD MBE, William Levin MD, Keith Cengel MD PhD, Jeffrey Bradley MD, Steven Feigenberg MD, Boon-Keng Kevin Teo PhD

Poster Presentation

Monday, September 30, 2024

SROA Annual Meeting

Session: Poster Viewing

3:00 - 4:00 pm

Presenter: Nate Anderson, Christina Morath, BS RT(T) and Fallon Shea, BS RT(T)

Title: *Novel Uses of Aria Data and Dashboards for Managing Complex Downtime*

Authors: Nate Anderson, Christina Morath, and Fallon Shea

Poster Presentation

Presenter: Celia Johnston, PMP, MBB

Title: *Lean Six Sigma Tools and Templates*

Author: Celia Johnston, PMP, MBB

Poster Presentation

Presenter: Celia Johnston, PMP, MBB

Title: *Project Management Tools and Templates*

Author: Celia Johnston, PMP, MBB

Poster Presentation

Monday, September 30, 2024

ASRT Annual Meeting

8:00 - 9:00 am

Presenters: Kathryn Betcher, BS, R.T.(T) and Laura Hesse, MHS, R.T.(R)(T)

Title: *The Evolution of Brachytherapy at Penn Medicine*

Authors: Kathryn Betcher, BS, R.T.(T) and Laura Hesse, MHS, R.T.(R)(T)

Oral Presentation

9:15 - 10:15am

Presenters: Dan Roberts, MBA, R.T.(R)(T) and James Murray, BS R.T.(R)(T)

Title: *Implementation of Adaptive Radiotherapy From a Radiation Therapist Perspective*

Authors: Dan Roberts, R.T.(R)(T) and James Murray, BS R.T.(R)(T)

Oral Presentation

Tuesday, October 1, 2024

ASTRO Annual Meeting

Concurrent Sessions

12:45 - 2:00 pm

Session: EDU 39 - Linear Energy Transfer (LET) and Relative Biological Effectiveness (RBE) in Proton Therapy - Controversies and Gaps in Knowledge

Moderators: Ying Xiao, PhD, FASTRO, DABR and Charles Simone, MD, FASTRO

Panel Discussion

Session: SS 39 - Bio 4: Immunotherapy and Immune Response

Presenter: Uri Amit, MD, PhD, MPH

Title: Combining Proton Radiation Therapy and Mesothelin-Targeting Chimeric Antigen Receptor T-cell Therapy to Improve Outcomes in Pancreatic Cancer

Authors: Uri Amit, Ugur Uslu, Ioannis I Verginadis, Michele M Kim, Seyyedeh Azar Oliaei Motlagh, Eric S Diffenderfer, Charles-Antoine Assenmacher, Sandra Bicher, Sebastian J Atoche, Edgar Ben-Josef, Regina M Young Carl H June, Constantinos Koumenis

Oral Presentation

Session: Poster Q&A 07—Gastrointestinal Cancer and Sarcoma/Cutaneous Tumors

Presenter: Uri Amit, MD, PhD, MPH

Title: Clinical Outcomes and Risk Stratification in Unresectable Biliary Tract Cancers Undergoing Radiation Therapy

Authors: Uri Amit, Misra Shagun, John P. Plastaras, James M. Metz, Thomas B. Karasic, Maryanne J. Lubas, Edgar Ben-Josef

Oral Presentation

Tuesday, October 1, 2024

ASTRO Annual Meeting

Concurrent Sessions

2:30 - 3:30 pm

Session: QP 11 – DHI 2 Digital Health Innovation and Information

Moderators: Ying Xiao, PhD, FASTRO, DABR and Haidy Nasief, PhD

Presenter: Sang Ho Lee, PhD

Title: Bridging Prediction and Causality: Deciphering Clinical Outcomes in Locally Advanced Non-Small Cell Lung Cancer Treated with Chemoradiation via Multitask Machine Learning and Causal Inference of Proto

Authors: Sang Ho Lee, Nikhil Yegya-Raman, Cole Friedes, Michelle Iocolano, Richard Caruana, Jeffrey Bradley, Gary Kao, Steven Feigenberg, Ying Xiao

Panel Discussion

Session: PQA 08 - PQA 08 Genitourinary Cancer, Patient Safety, and Nursing/Supportive Care Poster Q&A

Presenter: Abigail Pepin, MD

Title: Failure Patterns of Bladder Only Hypofractionated Radiation with Gemcitabine in Muscle Invasive Bladder Cancer

Authors: Abigail Pepin, Priyamvada Maitre, Ronac Mamtani, Vedang Murthy, John Christodouleas

Poster Presentation

Tuesday, October 1, 2024

ASTRO Annual Meeting

Concurrent Sessions

4:00 - 5:00 pm

Session: SS 37 - H&N 1: Envisioning the Future: Leading Edge Research in HPV-Associated Oropharyngeal Cancer

Presenter: John Nicholas Lukens, MD

Title: Phase II Study of Radiation Volume and Dose De-Intensification Following Tors and Neck Dissection for p16+ Oropharyngeal Squamous Cell Carcinoma - Long-Term Results of Expanded Cohort

Authors: Lukens JN, MacDuffie E, Siegal T, Poirier K, Weinstein GS, Newman J, Chalian A, Brody R, Rajasekaran K, Cannady S, Basu D, Rassekh C, Shanti R, Montone K, Sun L, Singh A, Cohen R, Maxwell R, Gentile M, Lin A

Oral Presentation

Session: GYN 4 – Rapid Fire Discoveries in Gynecologic Cancers

Presenter: Emily MacDuffie, MD

Title: Efficacy of Induction Chemotherapy in the Treatment of Locally Advanced Cervical Cancer in Botswana

Authors: Emily MacDuffie, Caroline Kernell, Jessica George, Memory Nsingo, Lisa Bazzett Matabele, Peter Vuylsteke, Megan Kassick, Surbhi Grove

Oral Presentation

Session: PAQ 09 - Hematologic Malignancies and Digital Health Innovations Poster Q&A

Presenter: Jace Grandinetti, PhD

Title: Pathology AI for Risk Stratification (PAIRS): Predicting Adverse Pathological Features in Post-Operative Head and Neck Cancer with Large Language Models

Authors: Jace Grandinetti, Cole Friedes, Russell Maxwell, Zayne Belal, John Lukens, Alexander Lin, William Green, Rafe McBeth

Poster Presentation

Tuesday, October 1, 2024

SROA Annual Meeting

Quality and Safety Workshop

1:15 - 2:15 pm

Presenters: Paige Kajkowski, MBA, RT(T) and Jacqueline Matson, BS, RT(R)(T)

Title: *Beyond the Beam: Revolutionizing Therapy Policies for Success*

Authors: Paige Kajkowski, MBA, RT(T) and Jacqueline Matson, BS, RT(R)(T)

Oral Presentation

Wednesday, October 2, 2024

ASTRO Annual Meeting

Concurrent Sessions

8:00 - 9:00 am

Session: QP 20- Phys 11 – Hadrons

Moderator: Lei Dong, PhD

Panel Discussion

Session: SS 42 – Bio 8: Normal Tissue Repair

Presenter: Ioannis Verginadis, PhD

Title: *FLASH Proton Radiotherapy on a Model of Radiation-Induced Myocardial Fibrosis*

Authors: Ioannis Verginadis, Kyle Kim, Michele Kim, Giorgos Skoufos, Eric Diffenderfer, Seyyedeh Azar Motlagh, Michail Kokkorakis, Ilektra Koliaki, George Morcos, Khayrullo Shoniyozov, Joanna Griffin, Artemis Hatzigeorgiou, James Metz, Alexander Lin, Steven Feigenberg, Keith Cengel, Bonnie Ky, Constantinos Koumenis

Oral Presentation

Wednesday, October 2, 2024

ASTRO Annual Meeting

Concurrent Sessions

10:30 - 11:45 am

Session: Best of Physics

Presenter: Eric Diffenderfer, PhD

Title: *Commissioning, Quality Assurance, and First Canine Treatment with a Conformal Proton Flash Delivery System*

Authors: Eric Diffenderfer, François Vander Stappen, Michele Kim, Seyyedeh Azar Motlagh, Wei Zou, Rudi Labarbe, Lucian Hotoiu, Arnaud Pin, Rasmus Nilsson, Erik Traneus, Alexander Lin, Keith Cengel, Lei Dong, Boon-Keng Kevin Teo

Oral Presentation

Session: PQA 10 - Head & Neck Cancer and Health Services Research/Global Oncology
Poster Q&A

Presenter: Emily MacDuffie, MD

Title: *Patterns of Palliative Radiotherapy Use in Botswana*

Authors: E. MacDuffie, K. Bhagat, M. Nsingo, D. Balang, S. Chiyapo, M. Kassick, and S. Grover

Poster Presentation

COME SEE US AT ASTRO BOOTH #1942



**Come see our Penn Radiation Oncology Education Booth at
ASTRO!**

This year, the Penn Radiation Medicine Institute is partnering with the department's Medical Education team to showcase our prestigious Education Programs in Penn Radiation Oncology.

The Penn Radiation Medicine Institute will be announcing our On-Site Principles of Proton Therapy Course dates for 2025. The course will be held for 1-week, open to radiation oncologists, physicists, dosimetrists, and radiation therapists interested in learning the basics of proton therapy in a clinical environment. Read more about the course here: [Proton Therapy Training Course – Penn Radiation Medicine Institute \(pennmedicine.org\)](https://pennmedicine.org)



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