

# ROBIN OligoMET Center

## Monthly Research Update: September 2023

### Publications

SEPTEMBER AT A GLANCE TOTALS	
Publications	4
Grants and contracts	
New awards	1
Submitted	4
Oral Presentations	4
Abstracts	1
Clinical trials	
TERPS	1
Awards/Honors	0

Please submit all monthly updates to Jadyne Stewart at [jadynstewart@som.umaryland.edu](mailto:jadynstewart@som.umaryland.edu) by second Wednesday of each month.

- Alexander GS, Krc RF, Assif JW, Sun K, Molitoris JK, **Tran P, Rana Z, Bentzen SM, Mishra MV**. [Conditional Risks of Biochemical Failure and Prostate Cancer-Specific Death in Patients Undergoing External Beam Radiotherapy: A Secondary Analysis of 2 Randomized Clinical Trials](#). JAMA Netw Open. 2023 Sep 5;6(9):e2335069. doi: 10.1001/jamanetworkopen.2023.35069. PMID: 37751207; PMCID: PMC10523164.
- Casey DL, Vogelius IR, Brodin NP, Roberts KB, Avanzo M, Moni J, Owens C, Ronckers CM, Constine LS, **Bentzen SM**, Olch A. [Risk of Subsequent Neoplasms in Childhood Cancer Survivors After Radiation Therapy: A Comprehensive PENTEC Review](#). Int J Radiat Oncol Biol Phys. 2023 Sep 29:S0360-3016(23)07685-X. doi: 10.1016/j.ijrobp.2023.07.025. Epub ahead of print. PMID: 37777927.
- Deek MP, **Tran PT**, Jabbour SK. [Metastasis-Directed Therapy: A Moving Target Advancing Progress Forward](#). J Clin Oncol. 2024 Jan 1;42(1):4-7. doi: 10.1200/JCO.23.01274. Epub 2023 Sep 25. PMID: 37748118; PMCID: PMC10730034.
- Prabhu RS, Akinyelu T, Vaslow ZK, Matsui JK, Haghghi N, Dan T, **Mishra MV**, Murphy ES, Boyles S, Perlow HK, Palmer JD, Udovicich C, Patel TR, Wardak Z, Woodworth GF, Ksendzovsky A, Yang K, Chao ST, Asher AL, Burri SH. [Single-Fraction Versus Fractionated Preoperative Radiosurgery for Resected Brain Metastases: A PROPS-BM International Multicenter Cohort Study](#). Int J Radiat Oncol Biol Phys. 2024 Mar 1;118(3):650-661. doi: 10.1016/j.ijrobp.2023.09.012. Epub 2023 Sep 16. PMID: 37717787.

### Grants and Contracts

#### Funded:

- Erika Davies, PhD, PI**, from the HHS/BARDA Nonclinical Development Radiological and Nuclear Network (RTOR RADNUC 2201) for "Performance verification of institutional radiation dose response for acute radiation syndrome (ARS) animal models" for \$3,549,010 (September 2023–September 2024).

#### Submitted:

- Erika Davis, PhD, PI/PD**, subaward with CMTx Biotech, Inc. to NIH PA-23-232 Small Business Technology Transfer Grant Applications (Parent STTR[R41/R42]) for "Novel small molecule for the treatment of acute radiation syndrome" (\$346,409).
- France Carrier, PhD/**Erika Davies, PhD (Multi-PI)**, to NIH/NIAID Sex Differences in Radiation Research: Models, Underlying Pathways, Biomarkers of Injury, and Medical Countermeasure Responses (U01) for "Investigating sex difference responses to acute and delayed effects of radiation exposures in mice" (\$1,620,992).

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## Grants and Contracts (continued)

### Submitted:

- **Lei Ren, PhD, PI/PD**, lead Dosimetry Core, Co-lead, Research Project 2, sub with University of California, Irvine, on NIH/NCI PAR-23-059 Project Applications for the Years 2023, 2024, and 2025 for “In vivo dosimetry and image-guided precision radiotherapy” (\$2,554,780).
- **Phuoc Tran, MD, PhD, PI/PD**, subaward with Johns Hopkins University for NIH PA-20-185 “TNIK-induced radioresistance in squamous cell lung cancer” (R01) (\$1,923,280).

## Oral Presentations

- **Phuoc T.**, NCI Cancer Diagnosis Program: Diagnostic Biomarkers and Technology Branch Seminar Speaker (September 5, 2023 – Virtual). “NRG Oncology GU Novel Molecular and Digital Pathology Approaches for Risk Stratification for Newly Diagnosed Localized Prostate Cancer”.
- **Phuoc T.**, UM SOM GPILS Molecular Medicine Professor Rounds (September 6, 2023 – Baltimore, MD). “Tran Lab Research Program”.
- **Phuoc T.**, UM SOM MSTP Physician-Scientist Seminar (September 12, 2023 – Baltimore, MD). “Tran Laboratory”.
- **Søren M.**, ASTRO 2023 (October 2, 2023 – San Diego, CA) “Randomized controlled trial of hypofractionated vs. normo-fractionated accelerated radiation therapy with or without cisplatin for locally advanced head and neck squamous cell carcinoma (HYPNO)”

## Abstracts

- **Yufeng Cao**, Philip Sutera, William Silva Mendes, Bardia Yousefi, Tom Hrinivich, Matthew Deek, Ryan Phillips, Danny Song, Ana Kiess, Ozan Cem Guler, Nese Torun, Mehmet Reyhan, **Phuoc Tran**, Cem Onal, **Lei Ren**. Automatic prediction of metastasis-free survival (MFS) using prostate-specific membrane antigen (PSMA) PET for oligometastatic castration-sensitive prostate cancer (omCSPC) treated by Metastasis Directed Therapy (MDT). AAPM National Meeting 2023.

## Clinical Trial Enrollment

- 1 patient was enrolled (11/122 total) on the **TERPS trial**.

## Awards/Honors

- None reported

*Please note that these examples are representative of productivity from the ROBIN OligoMET Center members and are not exclusively attributable to the U54 grant.*