

ROBIN OligoMET Center

Monthly Research Update: September 2022

Publications

SEPTEMBER AT A GLANCE TOTALS	
Publications	3
Grants and contracts	
New awards	3
Submitted	1
Oral Presentations	2
Abstracts	2
Clinical trials	
TERPS	0
Awards/Honors	1

1. Matsui JK, Perlow HK, Baiyee C, Ritter AR, **Mishra MV**, Bovi JA, Gondi V, Brown PD, Loughan AR, Leeper HE, Dawson E, Palmer JD. [Quality of Life and Cognitive Function Evaluations and Interventions for Patients with Brain Metastases in the Radiation Oncology Clinic](#). *Cancers (Basel)*. 2022 Sep 1;14(17):4301. doi: 10.3390/cancers14174301. PMID: 36077835; PMCID: PMC9454858.
2. Patel SA, Ma TM, Wong JK, Stish BJ, Dess RT, Pilar A, Reddy C, Wedde TB, Lilleby WA, Fiano R, Merrick GS, Stock RG, Demanes DJ, Moran BJ, **Tran PT**, Krauss DJ, Abu-Isa EI, Pisansky TM, Choo CR, Song DY, Greco S, Deville C, DeWeese TL, Tilki D, Ciezki JP, Karnes RJ, Nickols NG, Rettig MB, Feng FY, Berlin A, Tward JD, Davis BJ, Reiter RE, Boutros PC, Romero T, Horwitz EM, Tendulkar RD, Steinberg ML, Spratt DE, Xiang M, Kishan AU. [External beam radiotherapy with or without brachytherapy boost in men with very high-risk prostate cancer: A large multicenter international consortium analysis](#). *Int J Radiat Oncol Biol Phys*. 2022 Sep 28:S0360-3016(22)03399-5. doi: 10.1016/j.ijrobp.2022.09.075. Epub ahead of print. PMID: 36179990.
3. Yi B, **Sawant A**, Chen S, Lee SW, Zhang B. [Readiness for Radiation Treatment Continuity: Survey on Contingency Plans Against Cyberattacks](#). *Adv Radiat Oncol*. 2022 Sep 16;7(5):100990. doi: 10.1016/j.adro.2022.100990. PMID: 36148373; PMCID: PMC9486412.

Please submit all monthly updates to Jadyne Stewart at jadynstewart@som.umaryland.edu by second Wednesday of each month.

Grants and Contracts

Funded:

- **Erika Davies, PhD, PI**, from ASPR-BARDA, for “Nonclinical Development Radiological & Nuclear Network (base period),” contract 75A50122D00016 (Sep 2022–Sep 2027; \$75,000)
- **Erika Davies, PhD, PI**, from 9Meters Biopharma, for “Proof-of-concept study to assess the efficacy of GLP-2 to mitigate the gastrointestinal subsyndrome of acute radiation syndrome leading to a statistically significant improvement in 15-day survival following total body irradiation with 2.5% bone marrow sparing in a C57BL/6J mouse model” (Sep 2022–Sep 2023; \$145,127).
- **Nicole Simone, MD, MPI**, from NIH/NCI, for “Expanding sexual orientation and gender identity data collection to enable improved patient care.” (Sept 2022 – May 2023; \$150,000)

Submitted:

- **Lei Ren, PhD, PI**, UMMC Innovation Challenge, for “Interpretable AI for clinical decision-making assistance” (Jan. 2023–Jun 2024; \$125,000).

Oral Presentations

- **Phuoc T.**, University of Maryland, School of Medicine Graduate Program In Life Sciences Molecular Medicine Professor Rounds (September 7, 2022 – Baltimore, MD). “Tran Lab Research Program”.
- **Phuoc T.**, University of Maryland, School of Medicine Greenebaum Comprehensive Cancer Center (GCCC) Hormonal Regulated Cancers Program Annual Retreat, (September 29, 2022 – Baltimore, MD). “U54 Radiation Oncology-Biology Integration Network (ROBIN) Oligometastasis (OligoMET) Center”.

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Abstracts

- Paul L Nguyen, Vinnie YT Liu, James A Proudfoot, Yang Liu, Elai Davicioni, Alan Dal Pra, Daniel E Spratt, Howard M Sandler, Jason A Efstathiou, Colleen Lawton, Jeffrey P Simko, Seth A Rosenthal, Kenneth L Zeitzer, Lucas C Mendez, Alan C Hartford, William A Hall, Anand B Desai, Stephanie L. Pugh, **Phuoc Tran**, Felix Y Feng. Biopsy-based Basal-Luminal Subtyping Classifier in High-risk Prostate Cancer: Analysis of the NRG Oncology/RTOG 9202, 9413, and 9902 Randomized Phase III Trials. EMSO Sept 2022 Annual Congress.
- **Phuoc T.**, Philip Sutera, Matthew P. Deek, Kim Van der Eecken, Alex Hakansson, Yang Liu, Jinhee Chang, Valérie Fonteyne, Adrianna A. Mendes, Nicolaas Lumen, Louke Delrue, Sofie Verbeke, Kathia De Man, Daniel Y. Song, Channing J. Paller, Elai Davicioni, Steven Joniau, Gert De Meerleer, Tamara L. Lotan, Piet Ost. A Transcriptomic Signature of AR Activity Prognosticates Development of Castration-Resistance following Metastasis-Directed Therapy in Oligometastatic Castration-Sensitive Prostate Cancer. European Society for Medical Oncology (ESMO) 2022 Annual Congress.

Clinical Trial Enrollment

- 0 patients were enrolled (0/122) on the **TERPS** trial.

Awards/Honors

- **Lei R.** appointed as Therapy Scientific Program Director for AAPM Annual Meeting in 2023.

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