

ROBIN OligoMET Center

Monthly Research Update: November 2024

Publications

NOVEMBER AT A GLANCE TOTALS	
Publications	6
Grants and contracts	
New awards	0
Submitted	7
Oral Presentations	1
Abstracts	1
Clinical trials	
TERPS	0
Awards/Honors	0

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

- Boissonneault A, O'Hara NN, Slobogean GP, Meyer A, Maceroli M, Sciadini MF, Nascone JW, Gage MJ, Lin J, Hanasoge S, Shelton J, **Rana Z, Mishra M**, O'Toole RV. [The Use Of External Beam Radiation Therapy For Heterotopic Ossification Prophylaxis After Surgical Fixation Of Acetabular Fractures: A Randomized Controlled Trial](#). J Orthop Trauma. 2024 Nov 7. doi: 10.1097/BOT.0000000000002931. Epub ahead of print. PMID: 39508582.
- Haffner MC, Morris MJ, Ding CC, Sayar E, Mehra R, Robinson B, True LD, Gleave M, Lotan TL, Aggarwal R, Huang J, **Loda M**, Nelson PS, Rubin MA, Beltran H. [Framework for the Pathology Workup of Metastatic Castration-Resistant Prostate Cancer Biopsies](#). Clin Cancer Res. 2024 Nov 26. doi: 10.1158/1078-0432.CCR-24-2061. Epub ahead of print. PMID: 39589343.
- Loda M**. [Expanding Our Horizon to Inform Cutting Edge Mechanistic Studies: Cancer Research Resources](#). Mol Cancer Res. 2024 Nov 1;22(11):995. doi: 10.1158/1541-7786.MCR-24-0884. PMID: 39482973.
- Patel KR, Nguyen PL, Proudfoot JA, Liu Y, Pra AD, Spratt DE, Pollack A, Sandler HM, Efsthathiou JA, Lawton C, Simko JP, Rosenthal SA, Zeitzer KL, Mendez LC, Hartford AC, Hall WA, Desai AB, Pugh SL, Davicioni E, **Tran PT**, Feng FY. [Biopsy-based Basal-luminal Subtyping Classifier in High-risk Prostate Cancer: A Combined Analysis of the NRG Oncology/RTOG 9202, 9413, and 9902 Phase 3 Trials](#). Eur Urol Oncol. 2024 Nov 13:S2588-9311(24)00246-3. doi: 10.1016/j.euo.2024.10.017. Epub ahead of print. PMID: .
- Sadhukhan P, Feng M, Illingworth EJ, Sloma I, Ooki A, Matoso A, Sidransky D, Johnson Rd BA, **Marchionni L**, Sillé FC, Choi W, McConkey DJ, Hoque MO. [YAP1 induces bladder cancer progression and promotes immune evasion through IL-6/ STAT3 pathway and CXCL deregulation](#). J Clin Invest. 2024 Nov 21:e171164. doi: 10.1172/JCI171164. Epub ahead of print. PMID: 39630608.
- Wang JH, Deek MP, Mendes AA, Song Y, Shetty A, Bazzyar S, Van der Eecken K, Chen E, Showalter TN, Royce TJ, Todorovic T, Huang HC, Houck SA, Yamashita R, Kiess AP, Song DY, Lotan T, DeWeese T, **Marchionni L, Ren L, Sawant A, Simone N**, Berlin A, Onal C, Esteva A, Feng FY, **Tran PT**, Sutera P, Ost P. [Validation of an artificial intelligence-based prognostic biomarker in patients with oligometastatic Castration-Sensitive prostate cancer](#). Radiother Oncol. 2025 Jan;202:110618. doi: 10.1016/j.radonc.2024.110618. Epub 2024 Nov 6. PMID: 39510141; PMCID: PMC11663099.

Grants and Contracts

Funded:

- None reported

ROBIN OligoMET Center
Monthly Research Update: November 2024

Grants and Contracts

Submitted:

- **Phuoc Tran, MD, PhD, MPI/PD**, to NIH (PA-23-189; Administrative Supplement) for ROBIN Oligomet U54-CA273956, “Research supplement to promote diversity in health-related research” (\$139,299).
- **Phuoc Tran, MD, PhD, lead MPI/PD**, resubmission to NIH (R01-CA295761) for “Quantitative spatial analysis of immune-mediated response to chemo-immunotherapy from muscle-invasive bladder cancer clinical trials” (\$3,891,384).
- **Mark Mishra, MD, PI/PD**, to NIH NCI for Research Specialist (Clinician Scientist) Award (R50; PAR-24-274) (\$387,628).
- **Erika Davies, PhD, PI/PD**, for a subaward with SignaBlok, Inc., to NIH Novel Approaches for Radiation Biodosimetry and Medical Countermeasure (MCM) Development program (R21; RFA-AI-24-041) for “Novel MCM to mitigate potentially lethal acute radiation syndrome” (\$114,473).
- **Erika Davies, PhD, PI/PD**, for a subaward with Cayuga Biotech, Inc. to NIH Novel Approaches for Radiation Biodosimetry and MCM Development program (R21; RFAAI-24-041) for “Preclinical evaluation of CAY001 as a novel treatment for acute radiation sickness thrombocytopenic hemorrhage” (\$292,198).
- **Amit Sawant, PhD, lead MPI/PI**, renewal of NCI Investigator-Initiated Early Phase Clinical Trials for Cancer Treatment and Diagnosis award (R01 CA202761; PAR-24085) for “The INSPIRE trial: Integrating serial and parallel interconnected respiratory elements for sparing post-radiotherapy pulmonary function” (\$3,794,294).
- **Lei Ren, PhD, PI/PD**, for a subaward with Emory University for an NIH Research Project Grant (Parent R01; PA-20-185) for “Sample-efficient federated learning for pancreas cancer early diagnosis with model explanation guidance” (\$311,000.00).

Oral Presentations

- **Phuoc T., MD** Anderson, Dept. of GU Radiation Oncology (Nov 18, 2024 – Houston, TX). “GU Oncology Leadership: Core Values Shaped by Mentors and Mentees”.

Abstracts

- Charles McMillin, Thomas Hong, Christopher R. D’Adamo, Sören Bentzen, Ian Kleckner, Reuben Van-Eck, Ermiece Straub, **Mark V. Mishra**, Jason K. Molitoris, Young Kwok, **Zaker H. Rana**, **Phuoc T. Tran**, Adeel Kaiser, Matthew J. Ferris. Preliminary Muscle Mass Change Results from a Pilot Trial Investigating Incorporation of a Supervised Resistance Strength Training Program into a Definitive Regimen of Radiation and Androgen Deprivation Therapy. PTCOG-North America (PTCOG-NA) Annual Meeting 2024.

Clinical Trial Enrollment

- 0 patient was enrolled (28/122 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.