

ROBIN OligoMET Center

Monthly Research Update: May 2023

Publications

MAY AT A GLANCE TOTALS	
Publications	5
Grants and contracts	
New awards	1
Submitted	0
Oral Presentations	0
Abstracts	4
Clinical trials	
TERPS	0
Awards/Honors	2

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

1. Chaudagar K, Hieromnimon HM, Kelley A, Labadie B, Shafran J, Rameshbabu S, Drovetsky C, Bynoe K, Solanki A, Markiewicz E, Fan X, **Loda M**, Patnaik A. [Suppression of tumor cell lactate-generating signaling pathways eradicates murine PTEN/p53-deficient aggressive-variant prostate cancer via macrophage phagocytosis](#). bioRxiv [Preprint]. 2023 May 23:2023.05.23.540590. doi: 10.1101/2023.05.23.540590. PMID: 37292972; PMCID: PMC10245812.
2. Spratt DE, Liu VYT, Michalski J, Davicioni E, Berlin A, Simko JP, Efsthathiou JA, **Tran PT**, Sandler HM, Hall WA, Thompson DJS, Parliament MB, Dayes IS, Correa RJM, Robertson JM, Gore EM, Doncals DE, Vigneault E, Souhami L, Karrison TG, Feng FY. [Genomic Classifier Performance in Intermediate-Risk Prostate Cancer: Results From NRG Oncology/RTOG 0126 Randomized Phase 3 Trial](#). Int J Radiat Oncol Biol Phys. 2023 May 2:S0360-3016(23)00371-1. doi: 10.1016/j.ijrobp.2023.04.010. Epub ahead of print. PMID: 37137444.
3. Sutera PA, Shetty AC, Hakansson A, Van der Eecken K, Song Y, Liu Y, Chang J, Fonteyne V, Mendes AA, Lumen N, Delrue L, Verbeke S, De Man K, Rana Z, Hodges T, Hamid A, Roberts N, Song DY, Pienta K, Ross AE, Feng F, Joniau S, Spratt D, Gillissen S, Attard G, James ND, Lotan T, Davicioni E, Sweeney C, **Tran PT**, Deek MP, Ost P. [Transcriptomic and clinical heterogeneity of metastatic disease timing within metastatic castration-sensitive prostate cancer](#). Ann Oncol. 2023 Jul;34(7):605-614. doi: 10.1016/j.annonc.2023.04.515. Epub 2023 May 8. PMID: 37164128.
4. Sutera P, Song Y, Van der Eecken K, Shetty AC, English K, Hodges T, Chang J, Fonteyne V, **Rana Z**, **Ren L**, Mendes AA, Lumen N, Delrue L, Verbeke S, De Man K, Song DY, Pienta K, Feng FY, Joniau S, Lotan T, Lane B, Kiess A, Rowe S, Pomper M, DeWeese T, Deek M, Sweeney C, Ost P, **Tran PT**. [Clinical and Genomic Differences Between Advanced Molecular Imaging-detected and Conventional Imaging-detected Metachronous Oligometastatic Castration-sensitive Prostate Cancer](#). Eur Urol. 2023 May 10:S0302-2838(23)02790-2. doi: 10.1016/j.eururo.2023.04.025. Epub ahead of print. PMID: 37173210.
5. Valenzi E, Bahudhanapati H, Tan J, Tabib T, Sullivan DI, Nourai M, Sembrat J, Fan L, Chen K, Liu S, Rojas M, Lafargue A, Felsher DW, **Tran PT**, Kass DJ, Lafyatis R. [Single-Nucleus Chromatin Accessibility Identifies a Critical Role for TWIST1 in IPF Myofibroblast Activity](#). Eur Respir J. 2023 May 4:2200474. doi: 10.1183/13993003.00474-2022. Epub ahead of print. PMID: 37142338.

Grants and Contracts

Funded:

- **Erika Davies, PhD, PI/PD**, to 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" (\$16,213,297).

Submitted:

- None reported

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Oral Presentations

- None reported

Abstracts

- Philip Sutera, Kim Van der Eecken, Amol C. Shetty, Yang Song, Theresa Hodges, Sofie Verbeke, Jo Van Dorpe, Valérie Fonteyne, Bram De Laere, Mark Mishra, Zaker Rana, Jason Molitoris, Matthew Ferris, Nicholas Roberts, Daniel Y. Song, Theodore DeWeese, Kenneth J. Pienta, Matthew P. Deek, Piet Ost, **Phuoc T. Tran**. Genomic determinants of patterns of failure in metachronous oligometastatic castration-sensitive prostate cancer. Oral presentation in the GU Session of the ARS National Meeting 2023.
- Matthew P. Deek, Amol C. Shetty, Yang Song, Jason A. Efsthathiou, Felix Y. Feng, William U. Shipley, Jeffrey P. Simko, Kent W. Mouw, David Miyamoto, Alan Pollack, M. Dror Michaelson, Anthony Zietman, John J. Coen, Douglas M. Dahl, Ashesh B. Jani, Luis Souhami, Brian K. Chang, R. Jeffrey Lee, Huong Thanh Pham, Joseph P Rodgers, **Phuoc T. Tran**. Prognostic Significance of Pretreatment Immune Cell Infiltration in Muscle Invasive Bladder Cancer Treated with Definitive Chemoradiation. ARS National Meeting 2023.
- Rebecca Krc, William Mendes, Jason Molitoris, Matthew Ferris, Raneeh Mehra, Kyle Hatten, Rodney Taylor, Jeffrey Wolf, William Regine, **Phuoc Tran**, Matthew Witek. Outcomes of Patients Treated with Re-Irradiation for Recurrent Head and Neck Cancer Using Pencil Beam Scanning Proton Therapy. ARS National Meeting 2023.
- Yohan Kim, Ali Arafa, Edlira Horjeti, Philip Sutera, Ana Kiess, Ryan Phillips, **Phuoc Tran**, Sean Park, Fabrice Lucien. Tumor-Derived Extracellular Vesicles Predict Disease Recurrence in Oligometastatic Castration-Sensitive Prostate Cancer Treated with Stereotactic Ablative Radiotherapy: Analysis of the ORIOLE trial. International Society for Extracellular Vesicles (ISEV) Annual Meeting 2023.

Clinical Trial Enrollment

- 0 patient was enrolled (6/122 total) on the **TERPS trial**.

Awards/Honors

- **Phuoc T.** appointed as Ad Hoc Reviewer at Journal of the National Cancer Institute.
- **Zaker R.** appointed as Director of Medical Student Elective Course and Medical Student Research Internships at the Dept. of Radiation Oncology at University of Maryland Baltimore School of Medicine.

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