

ROBIN OligoMET Center

Monthly Research Update: May 2025

Publications

MAY AT A GLANCE TOTALS	
Publications	5
Grants and contracts	
New awards	0
Submitted	1
Oral Presentations	0
Abstracts	3
Clinical trials	
TERPS	2
Awards/Honors	0

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

- Cai L, Wu F, Zhou Q, Gao Y, Yao B, DeBerardinis RJ, Acquaah-Mensah GK, Aidinis V, Beane JE, Biswal S, Chen T, Concepcion-Crisol CP, Grüner BM, Jia D, Jones RA, Kurie JM, Lee MG, Lindahl P, Lissanu Y, Lorz C, MacPherson D, Martinelli R, Mazur PK, Mazzilli SA, Mii S, Moll HP, Moorehead RA, Morrissey EE, Ng SR, Oser MG, Pandiri AR, Powell CA, Ramadori G, Santos M, Snyder EL, Sotillo R, Su KY, Taki T, Taparra K, **Tran PT**, Xia Y, van Veen JE, Winslow MM, Xiao G, Rudin CM, Oliver TG, Xie Y, Minna JD. [The Lung Cancer Autochthonous Model Gene Expression Database Enables Cross-Study Comparisons of the Transcriptomic Landscapes Across Mouse Models](#). Cancer Res. 2025 May 15;85(10):1769-1783. doi: 10.1158/0008-5472.CAN-24-1607. PMID: 40298430; PMCID: PMC12081188.
- Kwong E, Liu CC, Adapa K, Vizer L, Anderson B, McHugh D, Pawlicki T, Miften M, **Sawant A**, Chargaia N, Das S, Marks LB, Wright JL, Mazur L. [Towards better understanding of factors contributing to medical physicist well-being in academic medical centers: A systems-analysis approach](#). J Appl Clin Med Phys. 2025 Jun;26(6):e70122. doi: 10.1002/acm2.70122. Epub 2025 May 11. PMID: 40350799; PMCID: PMC12148786.
- Lafargue A, Wang H, Chettiar ST, Gajula RP, Shetty AC, Song Y, Simons BW, **Khan MA**, Nguyen T, Tseng HW, Chang J, Waters DN, Chan A, Lam C, Carrieri FA, Smack C, Connis N, Chowdhury DD, Nugent K, Siddiqui I, Taparra K, Rezaee M, Zachara N, Morris ZS, McFarland C, Abdulkadir SA, Hann CL, **Tran PT**. [Twist1-induced suppression of oncogene-induced senescence in non-small cell lung cancer requires the transactivation domain of Twist1](#). Neoplasia. 2025 Aug;66:101179. doi: 10.1016/j.neo.2025.101179. Epub 2025 May 22. PMID: 40409044; PMCID: PMC12148720.
- Morelli E, Ribeiro CF, Rodrigues SD, Gao C, Socciarelli F, Maisano D, Favasuli V, Liu N, Todoerti K, Chakraborty C, Yao Y, Fulciniti M, Samur M, Aktas-Samur A, Amodio N, Turi M, Barello F, Penailillo J, Giallongo C, Romano A, Gulla A, Anderson KC, Inghirami G, Munshi NC, **Loda M**. [Targeting Acetyl-CoA Carboxylase Suppresses De Novo Lipogenesis and Tumor Cell Growth in Multiple Myeloma](#). Clin Cancer Res. 2025 May 15;31(10):1975-1987. doi: 10.1158/1078-0432.CCR-24-2000. PMID: 40053701; PMCID: PMC12081190.
- Roach M 3rd, Zhang J, Mohamad O, van der Wal D, Simko JP, DeVries S, Huang HC, Joun S, Schaeffer EM, Morgan TM, Keim-Malpass J, Chen E, Yamashita R, Monson JM, Naz F, Wallace J, Bahary JP, Wilke D, Batra S, Biedermann GB, Faria S, Hwang L, Sandler HM, Spratt DE, Pugh SL, Esteva A, **Tran PT**, Feng FY. [Assessing Algorithmic Fairness With a Multimodal Artificial Intelligence Model in Men of African and Non-African Origin on NRG Oncology Prostate Cancer Phase III Trials](#). JCO Clin Cancer Inform. 2025 May;9:e2400284. doi: 10.1200/CCI-24-00284. Epub 2025 May 9. PMID: 40344545.

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Grants and Contracts

Funded:

- None reported

Submitted:

- **Lei Ren, PhD, PI/PD**, lead for In Vivo Dosimetry Core, Co-lead, Research Project 3, resubmission 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 radio-acoustic image-guided precision radiotherapy” (\$3,656,375)

Oral Presentations

- None reported

Abstracts

- Ashley Ross, Yang Liu, Michael Leapman, Nicole Handa, Justin Hwang, Ho Yin Ho, Qi Joslove Xu, Jonathan Deans, James Proudfoot, Phillip Febbo, Yangyang Hao, Mohammed Alshalalfa, Elai Davicioni, Edward Schaeffer, **Phuoc Tran**, Angela Jia, Daniel Spratt, Joaquin Mateo, Emmanuel Antonarakis. Real-world analysis of primary tumor transcriptomes in patients treated subsequently treated with PARP inhibitors. ASCO National Meeting 2025.
- Charles Parker, Vinnie YT Liu, Larissa Mendes, Emily Grist, Rikiya Yamashita, Danielle C. Croucher, Ashwin Sachdeva, Laura Murphy, Huei-Chung Huang, Robert Jones Jones, Silke Gillessen, Chris C. Parker, Daniel Berney, **Phuoc T. Tran**, Daniel Spratt, Mahesh K. B. Parmar, Noel W. Clarke, Louise C. Brown, Nicholas David James, Gerhardt Attard. Multimodal artificial intelligence (MMAI) model to identify benefit from 2nd-generation androgen receptor pathway inhibitors (ARPI) in high-risk non-metastatic prostate cancer patients from STAMPEDE. Oral presentation in the Genitourinary Cancer—Prostate, Testicular, and Penile track for the ASCO National Meeting 2025.
- Xiaolei Shi, Amol C. Shetty, Jarey Wang, Yang Song, Philip A. Sutera, Matthew P. Deek, Chad Tang, James Proudfoot, Elai Davicioni, Paul Nguyen, Christopher Sweeney, Ella Boytim, Charles J. Ryan, Emmanuel S. Antonarakis, Justin Hwang, **Phuoc T. Tran**. Prognostic validation of six androgen production, uptake, and conversion genes (APUC-6) in the CHAARTED prostate cancer trial. ASCO National Meeting 2025.

Clinical Trial Enrollment

- 2 patients were enrolled (41/122 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.