

# ROBIN OligoMET Center

## Monthly Research Update: August 2024

### Publications

AUGUST AT A GLANCE TOTALS	
Publications	10
Grants and contracts	
New awards	2
Submitted	1
Oral Presentations	2
Abstracts	0
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.

- Berger R, Febbo PG, Majumder PK, Zhao JJ, Mukherjee S, Signoretti S, Thirza Campbell K, Sellers WR, Roberts TM, **Loda M**, Golub TR, Hahn WC. [Editor's Note: Androgen-Induced Differentiation and Tumorigenicity of Human Prostate Epithelial Cells](#). *Cancer Res*. 2024 Aug 1;84(15):2561. doi: 10.1158/0008-5472.CAN-24-1910. Erratum for: *Cancer Res*. 2004 Dec 15;64(24):8867-75. doi: 10.1158/0008-5472.CAN-04-2938. PMID: 39086315.
- Jackson CM, Pant A, Dinalankara W, Choi J, Jain A, Nitta R, Yazigi E, Saleh L, Zhao L, Nirschl TR, Kochel CM, Hwa-Lin Bergsneider B, Routkevitch D, Patel K, Cho KB, Tzeng S, Neshat SY, Kim YH, Smith BJ, Ramello MC, Sotillo E, Wang X, Green JJ, Bettegowda C, Li G, Brem H, Mackall CL, Pardoll DM, Drake CG, **Marchionni L**, Lim M. [The cytokine Meteorin-like inhibits anti-tumor CD8+ T cell responses by disrupting mitochondrial function](#). *Immunity*. 2024 Aug 13;57(8):1864-1877.e9. doi: 10.1016/j.immuni.2024.07.003. Epub 2024 Aug 6. PMID: 39111315; PMCID: PMC11324406.
- Kolosky T, Goldstein Shipper A, Sun K, Tozduman B, **Bentzen S**, Moosa AN, Erdemir G. [Epilepsy surgery for children with epileptic spasms: A systematic review and meta-analysis with focus on predictors and outcomes](#). *Epilepsia Open*. 2024 Aug;9(4):1136-1147. doi: 10.1002/epi4.13007. Epub 2024 Jul 2. PMID: 38953892; PMCID: PMC11296110.
- Omar M**, Ullanat V, **Loda M**, **Marchionni L**, Umeton R. [ChatGPT for digital pathology research](#). *Lancet Digit Health*. 2024 Aug;6(8):e595-e600. doi: 10.1016/S2589-7500(24)00114-6. Epub 2024 Jul 9. PMID: 38987117; PMCID: PMC11299190.
- Onal C, Guler OC, Torun N, Elmali A, Sutera P, Deek MP, Reyhan M, Yavuz M, **Tran PT**. [Impact of definitive radiotherapy on metabolic response measured with 68Ga-PSMA-PET/CT in patients with intermediate-risk prostate cancer](#). *Prostate*. 2024 Nov;84(15):1366-1374. doi: 10.1002/pros.24775. Epub 2024 Aug 6. PMID: 39107926.
- Su XA, Stopsack KH, Schmidt DR, Ma D, Li Z, Scheet PA, Penney KL, Lotan TL, Abida W, DeArment EG, Lu K, Janas T, Hu S, Vander Heiden MG, **Loda M**, Boselli M, Amon A, Mucci LA. [RAD21 promotes oncogenesis and lethal progression of prostate cancer](#). *Proc Natl Acad Sci U S A*. 2024 Sep 3;121(36):e2405543121. doi: 10.1073/pnas.2405543121. Epub 2024 Aug 27. PMID: 39190349; PMCID: PMC11388324.
- Tamarindo GH, Ribeiro CF, Silva ADT, Castro A, Caruso ÍP, Souza FP, Taboga SR, **Loda M**, Góes RM. The polyunsaturated fatty acid docosahexaenoic affects mitochondrial function in prostate cancer cells. *Cancer Metab*. 2024 Aug 7;12(1):24. doi: 10.1186/s40170-024-00348-0. PMID: 39113152; PMCID: PMC11308158.
- Valencia I, Nuzzo PV, Francini E, Ravera F, Fanelli GN, Blevé S, Scatena C, **Marchionni L**, **Omar M**. [Gene Signature for Predicting Metastasis in Prostate Cancer Using Primary Tumor Expression Profiles](#). medRxiv [Preprint]. 2024 Aug 31:2024.08.30.24312735. doi: 10.1101/2024.08.30.24312735. PMID: 39252915; PMCID: PMC11383506.

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## Publications (continued)

9. Wen KY, Burke SE, Jacoby JL, Liang J, **Simone NL**. [RE: Dietary interventions in cancer: a systematic review of all randomized controlled trials](#). J Natl Cancer Inst. 2024 Aug 1;116(8):1402-1403. doi: 10.1093/jnci/djae122. PMID: 38889290; PMCID: PMC11308162.
10. Zhang Y, Jiang Z, Zhang Y, **Ren L**. [A review on 4D cone-beam CT \(4D-CBCT\) in radiation therapy: Technical advances and clinical applications](#). Med Phys. 2024 Aug;51(8):5164-5180. doi: 10.1002/mp.17269. Epub 2024 Jun 23. PMID: 38922912; PMCID: PMC11321939.

## Grants and Contracts

### Funded:

- **Lei Ren, PhD**, MPI/Liangzhong Shawn Xiang-Contact PI (UC Irvine), 1U01CA288351, NIH U01 grant collaboration with University of California, Irvine, for “3D in vivo dosimetry for FLASH proton therapy,” 08/2024–07/2029 (\$972,590).
- **Lei Ren, PhD**, MPI/Gaylkalova-Contact PI (UMB IGS), 1R01DE33426, NIH R01 grant for “Study of biological and radiographic biomarkers and association with ancestry and survival disparities in oral cavity squamous cell carcinoma using AI approaches,” 08/2024–5/2029 (\$3,292,352).

### Submitted:

- **Phuoc Tran, MD, PhD**, PI UMB (Partnering submission with JHU), DOD CDMRP Prostate Cancer Research Program Data Science Award for “Novel metastatic biology elucidated from digital pathology artificial intelligence coupled with spatial transcriptomics in oligometastatic prostate cancer (\$777,286).

## Oral Presentations

- **Phuoc. T.**, Bladder Cancer Advocacy Network (BCAN) Think Tank – Oligometastatic Disease (August 8, 2024 – San Diego, CA). “Stage 4 Prostate Cancer - Role for the Local Therapists?”.
- **Phuoc. T.**, JHU, SKCCC GU Strategy Meeting (August 12, 2024 – Baltimore, MD). “Contemporary Management of Oligometastatic Castration-Sensitive Prostate Cancer”.

## Abstracts

- None reported

## Clinical Trial Enrollment

- 1 patient was enrolled (24/122 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.*