

ROBIN OligoMET Center

Monthly Research Update: March 2024

Publications

MARCH AT A GLANCE TOTALS	
Publications	5
Grants and contracts	
New awards	0
Submitted	3
Oral Presentations	1
Abstracts	0
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.

- Awad D, Cao PHA, Pulliam TL, Spradlin M, Subramani E, Tellman TV, Ribeiro CF, Muzzioli R, Jewell BE, Pakula H, Ackroyd JJ, Murray MM, Han JJ, Leng M, Jain A, Piyarathna B, Liu J, Song X, Zhang J, Klekers AR, Drake JM, Ittmann MM, Coarfa C, Piwnica-Worms D, Farach-Carson MC, **Loda M**, Eberlin LS, Frigo DE. [Adipose Triglyceride Lipase Is a Therapeutic Target in Advanced Prostate Cancer That Promotes Metabolic Plasticity](#). *Cancer Res.* 2024 Mar 4;84(5):703-724. doi: 10.1158/0008-5472.CAN-23-0555. PMID: 38038968; PMCID: PMC10939928.
- Choi W, Jia Y, Kwak J, Werner-Wasik M, Dicker AP, **Simone NL**, Storozynsky E, Jain V, Vinogradskiy Y. [Novel Functional Radiomics for Prediction of Cardiac Positron Emission Tomography Avidity in Lung Cancer Radiotherapy](#). *JCO Clin Cancer Inform.* 2024 Mar;8:e2300241. doi: 10.1200/CCI.23.00241. PMID: 38452302; PMCID: PMC10939651.
- Nelson NG, Burke SE, Cappelli L, Matlack LE, Smith AP, Francois N, Lombardo JF, Shah YB, Wen KY, Shafi AA, **Simone NL**. [Temporal Considerations in Brain Metastases Radiation Therapy: The Intersection of Chronobiology and Patient Profiles](#). *Clocks Sleep.* 2024 Mar 21;6(1):200-210. doi: 10.3390/clockssleep6010014. PMID: 38534802; PMCID: PMC10968878.
- Saeed AM, **Bentzen SM**, Ahmad H, Pham L, Woodworth GF, **Mishra MV**. [Systematic review and pooled analysis of the impact of treatment-induced lymphopenia on survival of glioblastoma patients](#). *Radiat Oncol.* 2024 Mar 14;19(1):36. doi: 10.1186/s13014-023-02393-3. Erratum in: *Radiat Oncol.* 2024 May 15;19(1):58. doi: 10.1186/s13014-024-02443-4. PMID: 38481255; PMCID: PMC10938829.
- Stokkevåg CH, Journy N, Vogelius IR, Howell RM, Hodgson D, **Bentzen SM**. [Radiation Therapy Technology Advances and Mitigation of Subsequent Neoplasms in Childhood Cancer Survivors](#). *Int J Radiat Oncol Biol Phys.* 2024 Mar 1:S0360-3016(24)00250-5. doi: 10.1016/j.ijrobp.2024.01.206. Epub ahead of print. PMID: 38430101.

Grants and Contracts

Funded:

- None reported

Submitted:

- **Erika Davies, PhD**, PI. Synedgen Inc. BARDA (Prime), BAA-18-100-SOL-00004, "Advanced development of MIIST305 to reduce mortality and morbidity after exposure to lethal ionizing radiation" (\$28,478,402).
- **Phuoc Tran, MD PhD**, PI, NOT-CA-24-015, NIH U54-CA273956, "Administrative supplement to support the development of digital twins in radiation oncology (DTRO) under ROBIN Oligomet U54-CA273956" (\$250,000).
- **Phuoc Tran, MD PhD**, PI UMB, sub Weill Cornell Medicine, NIH R01 PA-20-185, "Genomic determinants of metastatic organotropism in prostate cancer" (\$1,282,875).

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Oral Presentations

- **Phuoc T.**, MD Anderson, Dept. of Experimental Radiation Oncology Research Seminar (March 7, 2024 – Houston, TX). “The Early Beginnings of Metastatic Prostate Cancer – Biomarkers to Metastasis-Directed Therapy”.

Abstracts

- None reported.

Clinical Trial Enrollment

- 0 patient was enrolled (18/122 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.