

ROBIN OligoMET Center

Monthly Research Update: April 2024

Publications

APRIL AT A GLANCE TOTALS	
Publications	10
Grants and contracts	
New awards	0
Submitted	0
Oral Presentations	1
Abstracts	0
Clinical trials	
TERPS	2
Awards/Honors	2

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

- Deek MP, Sutera P, Jing Y, Gao R, Rothman E, Day H, Chang D, Dirix P, Armstrong AJ, Campbell B, Lopez Campos F, Berenguer M, Ramotar M, Conde-Moreno A, Berlin A, Bosetti DG, Corcoran N, Koontz B, Mercier C, Siva S, Pryor D, Ost P, Huynh MA, Kroeze S, Stish B, Kiess A, Trock B, **Tran PT**, Gillissen S, Sweeney C. [Multi-institutional Analysis of Metastasis-directed Therapy with or Without Androgen Deprivation Therapy in Oligometastatic Castration-sensitive Prostate Cancer](#). *Eur Urol Oncol*. 2024 Apr 2:S2588-9311(24)00086-5. doi: 10.1016/j.euo.2024.03.010. Epub ahead of print. PMID: 38570239.
- Lang Y, Jiang Z, Sun L, Xiang L, **Ren L**. [Hybrid-supervised deep learning for domain transfer 3D protoacoustic image reconstruction](#). *Phys Med Biol*. 2024 Apr 3;69(8):10.1088/1361-6560/ad3327. doi: 10.1088/1361-6560/ad3327. PMID: 38471184; PMCID: PMC11076107.
- Ling X, Alexander GS, Molitoris J, Choi J, Schumaker L, **Tran P**, Mehra R, Gaykalova D, **Ren L**. [Radiomic biomarkers of locoregional recurrence: prognostic insights from oral cavity squamous cell carcinoma preoperative CT scans](#). *Front Oncol*. 2024 Apr 23;14:1380599. doi: 10.3389/fonc.2024.1380599. PMID: 38715772; PMCID: PMC11074368.
- Lombardo J, Castillo E, Castillo R, Miller R, Jones B, Miften M, Kavanagh B, Dicker A, Boyle C, Leiby B, Banks J, **Simone NL**, Movsas B, Grills I, Guerrero T, Rusthoven CG, Vinogradskiy Y. [Prospective trial of Functional Lung Avoidance Radiation Therapy for Lung Cancer: Quality of Life Report](#). *Int J Radiat Oncol Biol Phys*. 2024 Apr 11:S0360-3016(24)00476-0. doi: 10.1016/j.ijrobp.2024.03.046. Epub ahead of print. PMID: 38614278.
- Mell LK, Pugh SL, Jones CU, Nelson TJ, Zakeri K, Rose BS, Zeitzer KL, Gore EM, Bahary JP, Souhami L, Michalski JM, Hartford AC, **Mishra MV**, Roach M 3rd, Parliament MB, Choi KN, Pisansky TM, Husain SM, Malone SC, Horwitz EM, Feng F. [Effects of Androgen Deprivation Therapy on Prostate Cancer Outcomes According to Competing Event Risk: Secondary Analysis of a Phase 3 Randomised Trial](#). *Eur Urol*. 2024 Apr;85(4):373-381. doi: 10.1016/j.eururo.2023.01.020. Epub 2023 Jan 28. PMID: 36710205; PMCID: PMC10372191.
- Nguyen T, Carrieri FA, Connis N, Lafargue A, Chang J, Chan A, Shetty AC, Song Y, Hoang T, Jagtap S, Chowdhury DD, **Khan MA**, Gabrielson KL, Rezaee M, Torres-Ayuso P, Brognard J, Hann CL, **Tran PT**. [TNIK inhibition sensitizes TNIK-overexpressing lung squamous cell carcinoma to radiotherapy](#). *Mol Cancer Ther*. 2024 Apr 27. doi: 10.1158/1535-7163.MCT-23-0412. Epub ahead of print. PMID: 38670554.
- Omar M**, Xu Z, Rand SB, Alexanderani MK, Salles DC, Valencia I, Schaeffer EM, Robinson BD, Lotan TL, **Loda M**, **Marchionni L**. [Semi-Supervised, Attention-Based Deep Learning for Predicting TMPRSS2:ERG Fusion Status in Prostate Cancer Using Whole Slide Images](#). *Mol Cancer Res*. 2024 Apr 2;22(4):347-359. doi: 10.1158/1541-7786.MCR-23-0639. PMID: 38284821; PMCID: PMC10985477..

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Publications

8. **Rana Z**, Kamran SC, Shetty AC, Sutera P, Song Y, Bazzyar S, Solanki AA, Simko JP, Pollack A, McConkey D, Kates M, Siddiqui MM, Hiken J, Earls J, Messina D, Mouw KW, Miyamoto D, Shipley WU, Michaelson MD, Zietman A, Coen JJ, Dahl DM, Jani AB, Souhami L, Chang BK, Lee RJ, Pham H, Marshall DT, Shen X, Pugh SL, Feng FY, Efstathiou JA, **Tran PT**, Deek MP. [Prognostic Significance of Immune Cell Infiltration in Muscle-invasive Bladder Cancer Treated with Definitive Chemoradiation: A Secondary Analysis of RTOG 0524 and RTOG 0712](#). Eur Urol Oncol. 2024 Apr 18:S2588-9311(24)00095-6. doi: 10.1016/j.euo.2024.03.015. Epub ahead of print. PMID: 38641541
9. Ribeiro CF, Rodrigues S, Bastos DC, Fanelli GN, Pakula H, Foiani M, Zadra G, **Loda M**. [Blocking lipid synthesis induces DNA damage in prostate cancer and increases cell death caused by PARP inhibition](#). Sci Signal. 2024 Apr 9;17(831):eadh1922. doi: 10.1126/scisignal.adh1922. Epub 2024 Apr 9. PMID: 38593154; PMCID: PMC11161871. Ribeiro CF, Rodrigues S, Bastos DC, Fanelli GN, Pakula H, Foiani M, Zadra G, **Loda M**. [Blocking lipid synthesis induces DNA damage in prostate cancer and increases cell death caused by PARP inhibition](#). Sci Signal. 2024 Apr 9;17(831):eadh1922. doi: 10.1126/scisignal.adh1922. Epub 2024 Apr 9. PMID: 38593154.
10. Sutera P, Deek MP, Deek RA, Guler OC, Hurmuz P, Reyhan M, Rowe S, Radwan N, Dipasquale S, Hrinivich WT, Lowe K, **Ren L**, Saraiya B, Ennis R, Hathout L, Mayer T, Deweese TL, Song DY, Kiess A, Oymak E, Pienta K, Feng F, Pomper M, Ozyigit G, **Tran PT**, Onal C, Phillips RM. [Prostate-Specific Membrane Antigen PET Response Associates with Metastasis-Free Survival After Stereotactic Ablative Radiation in Oligometastatic Prostate Cancer](#). Adv Radiat Oncol. 2024 Apr 13;9(7):101507. doi: 10.1016/j.adro.2024.101507. PMID: 38799104; PMCID: PMC1127093.

Grants and Contracts

Funded:

- None reported

Submitted:

- None reported

Oral Presentations

- **Amit S.**, Winship Cancer Institute of Emory University (April 2024,) ""Using High-School Anatomy/Physiology (and Advanced Technology) To Improve Lung Cancer Radiation Therapy""

Abstracts

- None reported

Clinical Trial Enrollment

- 2 patient was enrolled (20/122 total) on the **TERPS trial**.

Awards/Honors

- **Erika D.** chairs the 2nd Annual Dept. of Radiation Oncology Research Symposium
- **Phuoc T.** chairs a session titled, "Genomic instability and metastasis: Dangerous liaisons or 2 sides of the same coin? at the AACR.

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