

ROBIN OligoMET Center

Monthly Research Update: March 2023

Publications

1. **Bentzen SM**, Vogelius IR. [Using and Understanding Survival Statistics - or How We Learned to Stop Worrying and Love the Kaplan-Meier Estimate](#). *Int J Radiat Oncol Biol Phys*. 2023 Mar 15;115(4):839-846. doi: 10.1016/j.ijrobp.2022.11.035. PMID: 36822786.
2. Jiang Z, Polf JC, Barajas CA, Gobbert MK, **Ren L**. [A feasibility study of enhanced prompt gamma imaging for range verification in proton therapy using deep learning](#). *Phys Med Biol*. 2023 Mar 20;68(7). doi: 10.1088/1361-6560/acbf9a. PMID: 36848674.
3. Zhong H, **Ren L**, Lu Y, Liu Y. [On the correction of respiratory motion-induced image reconstruction errors in positron-emission tomography-guided radiation therapy](#). *Phys Imaging Radiat Oncol*. 2023 Mar 16;26:100430. doi: 10.1016/j.phro.2023.100430. PMID: 36970447; PMCID: PMC10036920.

Grants and Contracts

Funded:

- **Erika Davies, PhD**, PI, from PureTech LYT 100, Inc., for “PK studies of company test article in C57L/J mouse model of PBI/BM2.5” (\$117,516; Jan 2023–Jun 2023).
- **Erika Davies, PhD**, PI, from Xequel Bio for “Task order 2. Establish (SOW 1.0) and validate (SOW 2.0) a cutaneous radiation injury (CRI) model in Yorkshire swine” (\$1,766,097; Jan 2023–Dec 2023).

Submitted:

- **Amit Sawant, PhD**, multi-PI, with CFD Research for a phase 1 SBIR proposal on “Macro physiological platform for pre-clinical investigations in FLASH radiotherapy” (\$115,000).
- **Erika Davis, PhD**, PI, to Columbia University/NIAID for a CMCRC Pilot Project 2023 (\$154,500).
- **Phuoc Tran, MD, PhD**, multi-PI, with the University of Wisconsin for an NIH R01 resubmission proposal on “Tumor-barcoding and high-throughput sequencing to assess genomic predictors of TRT response and immunomodulation in NSCLC” (\$1,259,175).

Oral Presentations

- **Phuoc T.**, Medical Society of Northern Virginia (March 2, 2023 – Washington DC). “Proton Therapy: A Powerful Tool in the Cancer-Fighting Toolbox”.
- **Phuoc T.**, George Washington University and the Katzen Cancer Research Center Mid-Atlantic Radiation Oncology Spring Consortium (March 14, 2023 – Washington DC). “Radiation Therapy in Oligometastatic Prostate Cancer: Why, When, And How?”
- **Phuoc T.**, UM SOM GCCC Research Council, (March 16, 2023 – Baltimore, MD). “U54 Radiation Oncology-Biology Integration Network (ROBIN) Oligometastasis (OligoMET) Center”.

MARCH AT A GLANCE TOTALS

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

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

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Oral Presentations

- **Phuoc T.**, AACR Special Conference: Advance in Prostate Cancer Research (March 18, 2023 – Denver, CO). “Risk stratification of localized prostate cancer: NRG oncology digital pathology initiatives to improve precision medicine radiation management”.
- **Phuoc T.**, Northside Hospital Cancer Institute Symposium: Looking Forward - State-of-the-Art Prostate Cancer Management (March 25, 2023 – Atlanta, GA). “Contemporary Management of Oligometastatic Prostate Cancer”.

Abstracts

- None reported.

Clinical Trial Enrollment

- 1 patient was enrolled (5/122 total) on the **TERPS trial**.

Awards/Honors

- **Phuoc T.** appointed at eBioMedicine as Ad Hoc Reviewer.
- **Søren B.** awarded for The British Institute of Radiology (BIR) Medal for Outstanding International Achievement.
- **Zaker R.** elected as faculty member of the University of Maryland School of Medicine Alpha Omega Alpha Honor Medial Society (Beta Chapter).

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