

# ROBIN OligoMET Center

## Monthly Research Update: October 2022

### Publications

OCTOBER AT A GLANCE TOTALS	
Publications	6
Grants and contracts	
New awards	0
Submitted	2
Oral Presentations	9
Abstracts	3
Clinical trials	
TERPS	2
Awards/Honors	1

Please submit all monthly updates to Jadyne Stewart at [jadynstewart@som.umaryland.edu](mailto:jadynstewart@som.umaryland.edu) by second Wednesday of each month.

1. Huynh MA, Tang C, Siva S, Berlin A, Hannan R, Warner A, Koontz B, De Meeleer G, Palma D, Ost P, **Tran PT**. [Review of Prospective Trials Assessing the Role of Stereotactic Body Radiation Therapy for Metastasis-directed Treatment in Oligometastatic Genitourinary Cancers](#). *Eur Urol Oncol*. 2022 Oct 22:S2588-9311(22)00171-7. doi: 10.1016/j.euo.2022.09.007. Epub ahead of print. PMID: 36283936.
2. Jang JY, Hwang I, Pan H, Yao J, Alinari L, **Imada E**, Zanettini C, Kluk M, Wang Y, Lee YK, Lin HV, Huang X, Di Liberto M, Chen Z, Ballman KV, Cantley LC, **Marchionni L**, Inghirami G, Elemento O, Baiocchi R, Chen-Kiang S, Belvedere S, Zheng H, Paik J. [A FOXO1-dependent transcription network is a targetable vulnerability of mantle cell lymphomas](#). *J Clin Invest*. 2022 Oct 25:e160767. doi: 10.1172/JCI160767. Epub ahead of print. PMID: 36282572.
3. Lee EE, Singh T, Hu C, Han M, Deville CJ, Halthore A, Greco S, **Tran P**, DeWeese T, Song DY. [The impact of salvage radiotherapy initiation at PSA  \$\leq\$  0.5 ng/ml on metastasis-free survival in patients with relapsed prostate cancer following prostatectomy](#). *Prostate*. 2022 Oct 31. doi: 10.1002/pros.24452. Epub ahead of print. PMID: 36316967.
4. Lombardo J, Schmucker AM, Keith SW, Ronghe A, Smith A, Ali AS, Niazi M, Denton M, Swartz K, Chapman A, **Simone NL**. [Markers and associations of nutrition identified in a senior adult oncology clinic](#). *J Geriatr Oncol*. 2022 Oct 14:S1879-4068(22)00237-5. doi: 10.1016/j.jgo.2022.10.003. Epub ahead of print. PMID: 36253248.
5. Jiang Z, Sun L, Yao W, Wu QJ, Xiang L, **Ren L**. [3D in vivo dose verification in prostate proton therapy with deep learning-based proton-acoustic imaging](#). *Phys Med Biol*. 2022 Oct 27;67(21). doi: 10.1088/1361-6560/ac9881. PMID: 36206745.
6. Lombardo J, Schmucker AM, Keith SW, Ronghe A, Smith A, Ali AS, Niazi M, Denton M, Swartz K, Chapman A, **Simone NL**. [Markers and associations of nutrition identified in a senior adult oncology clinic](#). *J Geriatr Oncol*. 2022 Oct 14:S1879-4068(22)00237-5. doi: 10.1016/j.jgo.2022.10.003. Epub ahead of print. PMID: 36253248.

### Grants and Contracts

**Funded:**

- None at this time

**Submitted:**

- **Lei Ren, PhD**, PD/PI, PAR-22-123 Bioengineering Partnerships with Industry (U01 Clinical Trial Optional), NIH grant collaboration with University of California, Irvine, for "3D in vivo dosimetry for FLASH proton therapy" (Aug 2023 - July 2028; \$1,007,967).
- **Nicole Simone, MD**, MPI, American Institute for Cancer Research (AICR) for "txt4fasting: an interactive mobile time-restricted eating diet intervention for patients with brain metastases to maximize radiation outcomes." (Jan 2023 – Dec 2024; \$165,000)

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## Oral Presentations

- Jonathan D Tward, Jingbin (Ivy) Zhang, Andre Esteva, Osama Mohamad, Douwe van der Wal, Jeffry P Simko, Sandy DeVries, Huei-Chung (Rebecca) Huang, Edward M Schaeffer, Todd M Morgan, Jedidiah M Monson, Holly A Campbell, James A Wallace, Michelle J Ferguson, Jean-Paul Bahary, Howard M Sandler, Daniel E Spratt, Joseph P Rodgers, Felix Y Feng, **Phuoc T. Tran**. “Risk reclassification in prostate cancer patients via digital histopathology multi-modal deep learning models in NRG Oncology phase III clinical trials. ASTRO 2022 National Meeting.” Oral presentation in the Plenary Session for the ASTRO October 2022 National Meeting
- Lei R.** “The Emerging Use of AI in Image-Guided Radiation Therapy” Conference on Machine Intelligence in Medical Imaging (CMIMI), 2022 October
- Lei R.** “AI for Image-Guided Radiotherapy (IGRT): Advances and Applications” Invited talk to the ASTRO Annual Meeting Education Session: Clinical implementation and translation of AI in Radiation Oncology: challenges, pitfalls, and promises, 2022 October
- Matthew P. Deek, Kim Van der Eecken, Phil Sutera, Rebecca A. Deek, Valérie Fonteyne, Adrianna A. Mendes, Nicolaas Lumen, Ryan Phillips, Louke Delrue, Sofie Verbeke, Kathia De Man, Daniel Y. Song, Channing J. Paller, Steven Joniau, Gert De Meerleer, Tamara L. Lotan, Alejandro Berlin, Shankar Siva, Piet Ost, **Phuoc T. Tran**. Long Term Outcomes and Genetic Predictors of Response to Metastasis Directed Therapy Versus Observation in Oligometastatic Castration-Sensitive Prostate Cancer: A Pooled Analysis of the STOMP and ORIOLE Trials. Oral presentation for the ASTRO October 2022 National Meeting.
- Philip Sutera, Matthew Deek, Ozan Cem Guler, Pervin Hurmuz, Mehmet Reyhan, Steven Rowe, William T. Hrinivich, **Lei Ren**, Daniel Y. Song, Ana Kiess, Ezgi Oymak, Kenneth Pienta, Martin Pomper, Felix Y. Feng, Gokhan Ozyigit, **Phuoc T. Tran**, Ryan M. Phillips, Cem Onal. Prostate-specific membrane antigen PET response associates with metastasis-free survival following stereotactic ablative radiation therapy in oligometastatic castration-sensitive prostate cancer. Oral presentation for the ASTRO October 2022 National Meeting.
- Phuoc T.**, University of Arkansas for Medical Sciences, Winthrop P. Rockefeller Cancer Institute Forum Seminar Series (October 10, 2022 – Little Rock, AR). “Oligometastatic Prostate Cancer – Basic to Clinical Interrogation”.
- Phuoc T.**, Oslo University Hospital, Department of Radiation Oncology Webinar (October 19, 2022 – Virtual). “SBRT for localized and metastatic prostate cancer: why, when and how?”.
- Phuoc T.\*+**, Kathryn Lowe\*, Hao Wang, Hua-Ling Tsai, Daniel Y. Song, Arthur Y. Hung, Jason W.D. Hearn, Steven Miller, Tamara Lotan, Theodore L. DeWeese, Matthew Orton, Curtiland DeVille, Stanley Liauw, Elisabeth I. Heath, Stephen Greco, Neil B. Desai, Daniel E. Spratt, Felix Feng, Tomasz M. Beer, Emmanuel S. Antonarakis+. Phase II Randomized Study of Salvage Radiation Therapy (SRT) Plus Enzalutamide or Blinded Placebo for High-Risk PSA-Recurrent Prostate Cancer after Radical Prostatectomy: the SALV-ENZA Trial. Oral presentation for the ASTRO 2022 National Meeting.  
\* - these authors contributed equally; and + - corresponding authors
- Soren B.**, ASTRO National Meeting, Session: Panel 12 (October 24, 2022 – San Antonio, TX). “Modeling Normal-Tissue Dose-Response Data in Developing Children, Knowledge Gaps and the Path Forward”

## Abstracts

- Cao Y**, Kunaprayoon D, Xu J, **Ren L**. Automatic dose prescription for radiotherapy of brain metastases using two-path three-dimensional CNN. ASTRO October 2022 National Meeting.
- Devin Miles, Daniel Sforza, Ismaeel Siddiqui, John Wong, **Phuoc Tran**, Mohammad Rezaee. FLASH effects induced by kV x-rays in a murine skin model. ASTRO October 2022 National Meeting.
- Martin Sjöström, Shuang G. Zhao, Samuel Levy, Meng Zhang, Yuhong Ning, Raunak Shrestha, Arian Lundberg, Cameron Herberts, Edmond Kwan, Gillian Vandekerckhove, Adam Foye, Rahul R. Aggarwal, Junjie T. Hua, Haolong Li, Anna Bergamaschi, Corinne Maurice-Dror, Ashutosh Maheshwari, Sujun Chen, Sarah Ng, Wenbin Ye, Jessica Petricca, Michael Fraser, Lisa Chesner, Marc Perry, Thaidy Moreno-Rodriguez, William S. Chen, Joshi J. Alumkal, Jonathan Chou, Alicia K. Morgans, Tomasz M. Beer, George V. Thomas, Martin Gleave, Paul Lloyd, Tierney Phillips, Erin McCarthy, Michael C. Haffner, Amina Zoubeidi, Robert E. Reiter, Matthew B. Rettig, Owen Witte, Lawrence Fong, Rohit Bose, Franklin Huang, Jianhua Luo, Anders Bjartell, Joshua M. Lang, Nupam Mahajan, Primo N. Lara, Christopher P. Evans, **Phuoc T. Tran**, Edwin M. Posadas, Chuan He, Xiaolong Cui, Jiaoti Huang, Wilbert Zwart, Luke A. Gilbert, Christopher A. Maher, Paul C. Boutros, Kim N. Chi, Alan Ashworth, Eric J. Small, Housheng H. H+, Alexander W. Wyatt+, David A. Quigley+, Felix Y. Feng+. 5-hydroxymethylcytosine sequencing as a biomarker for lineage plasticity and treatment response in advanced prostate cancer. 29th Annual PCF Meeting Oct 2022.

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**Clinical Trial Enrollment**

- 2 patients were enrolled (2/122) on the **TERPS trial**.

**Awards/Honors**

- **Mark M.** was voted “Top Doctor” in Baltimore magazine.