

Department of Radiation Oncology

Monthly Research Update: December 2024

CARTI: Highlighting Academic Resources

DECEMBER AT A GLANCE TOTALS

Clinical trials

Total enrolled	29
GCC, other	3
NRG, NCI, co-ops	1
PCG, other registries	25

Grants and contracts

New awards	0
Submitted	11

Articles published	6
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The University of Maryland Center for Advanced Research Training and Innovation (CARTI) functions as a hub for training in the research, scientific communication, and leadership skills needed to succeed in an academic institution. It offers support for research and professional development for faculty members at all levels and is particularly useful for physicians, scientists, and fellows in the early years of their academic careers. Among its activities of greatest interest to Radiation Oncology department members are formal [counseling and mentoring](#) by experienced faculty, [specific training tracks](#), [individual research career development strategies](#), [writing and communication courses and instructions](#), and the innovative “Fellows to Faculty” (F2F) program. Links to CARTI’s [most frequently used resources](#) are available online, as well as listings of upcoming training sessions and events. Of special note for individuals preparing for NIH funding submissions, CARTI now has a funded grants “library” of previously successful applications, including but not limited to examples of submission for Loan Repayment Program awards, career development awards (K grants), research (R) grants, and diversity supplements.

Upcoming training events include: “[Overview of UM-BILD and Technology Development Resources at UMB, Maryland, and Beyond](#),” part of the Research Seminar series (January 16); “[Negotiation Skills](#),” part of the Managing Your Research Program Seminar series (January 21); “[Organizational Strategies for Preparing your Grant Application](#),” part of the Career Skills “Short Seminar” series (January 22); “[Navigating Publication](#),” part of the Scientific Writing Seminar series (January 23); “[Intellectual Property Protection, Commercialization, & Industry Partnerships](#),” part of the UM Ventures 2-part Seminar series (January 28 and February 4); “[Writing Effective Titles and Abstracts](#),” part of the Scientific Writing Seminar series (February 6); and “[Getting Your Protocol Through the IRB](#),” part of the Research Skills seminar series (February 12). Other CARTI courses and resources focus on communities, networking, and support; conflict resolution; funding databases; and internal funding opportunities. Many of these sessions are virtual, and registration through CARTI is required. CARTI sends regular e-mail updates throughout the year to all faculty with information on new resources and upcoming training sessions. The Department of Radiation Oncology supports its faculty and fellows who wish to participate in any of the CARTI training programs.

Information for this monthly update should be provided no later than the second Wednesday of each month to Miek Segers at msegers@som.umaryland.edu. The update will be published on the second Friday of each month.

Have questions about identifying a funding source? Finding research partners across the UMB/UM campuses or at another university? Defining future research strategies? Or organizing your thoughts on (virtual) paper? Contact Nancy Knight, PhD, Director of Academic and Professional Development for the department, at nknight@umm.edu

Grants and Contracts

None for December (which includes the 2-wk period during which university grant and contract management offices are closed for the holidays).

Clinical Trial Enrollment

- 22 patients at MPTC on the **Proton Collaborative Group Registry**.
- 3 patients enrolled at MPTC on the **DTT HUD**.
- 1 patient at MPTC on **GCC 20138**: Laser interstitial thermal therapy followed by hypofractionated radiation therapy for treatment of newly diagnosed high-grade gliomas.
- 1 patient at BWMC on **NRG GU009**: Parallel phase III randomized trials for high-risk prostate cancer evaluating de-intensification for lower genomic risk and intensification of concurrent therapy for higher genomic risk with radiation (PREDICT-R*).
- 1 patient enrolled at UMMC on **GCC 1876**: Tumor bed boost using a breast specific radiosurgery device, the GammaPod™: Registry study and evaluation of quality of life with development of sizing nomogram.
- 1 patient enrolled at UMMC on **GCC 2384**: Evaluation of improved onboard patient imaging with the HyperSight platform on TrueBeam 4.1.

Articles Published

Entered into PubMed December 11–January 9. Titles link to PubMed abstracts, many of which contain full-text links.

1. Chen M, **Wang K**, Kapur P, Brugarolas J, Hannan R, Wang J. [A multimodal ensemble approach for clear cell renal cell carcinoma treatment outcome prediction](#). *ArXiv* [Preprint]. 2024 Dec 10:arXiv:2412.07136v1.
2. Chhabra AM, Amos RA, Simone CB, Kaiser A, Perles LA, Giap H, Hallemeier CL, Johnson JE, Lin H, Wroe AJ, Diffenderfer ES, Wolfgang JA, Sakurai H, Lu HM, Hong TS, Koay EJ, Terashima K, Vitek P, Rule WG, Apisarnthanarax SJ, Badiyan SN, **Molitoris JK**, Chuong M, Nichols RC Jr. [Proton beam therapy for pancreatic tumors: A consensus statement from the Particle Therapy Cooperative Group Gastrointestinal Subcommittee](#). *Int J Radiat Oncol Biol Phys*. 2025 Jan 4:S0360-3016(24)03769-6. Online ahead of print.
3. Ling X, **Bazyar S**, Ferris M, **Molitoris J**, Allor E, Thomas H, Arons D, Schumaker L, Krc R, Mendes WS, **Tran PT**, **Sawant A**, Mehra R, Gaykalova DA, **Ren L**. [Identification of CT based radiomic biomarkers for progression free survival in head and neck squamous cell carcinoma](#). *Sci Rep*. 2025 Jan 8;15(1):1279.
4. Perlow HK, Raleigh DR, Wang TJC, Pollom EL, Milano MT, Breen WG, Detsky J, Chang EL, Tom MC, Shiu KR, Lehrer EJ, Saeed H, Pike LRG, Lo SS, **Mishra MV**, Knisely JPS, Chao ST, Sahgal A, Palmer JD. [Consensus radiation treatment planning guidelines using \(68\)Ga-DOTATATE PET/CT for resected meningiomas](#). *Int J Radiat Oncol Biol Phys*. 2024 Dec 19:S0360-3016(24)03726-X. Online ahead of print.
5. Simonsen MB, **Bentzen SB**, Möller S, Holm KG, Vinter CA, Zachariassen G. [Safety of antenatal breastmilk expression from week 34 of pregnancy: A randomized controlled pilot study \(The Express-MOM study\)](#). *Matern Health Neonatol Perinatol*. 2025 Jan 3;11(1):2.
6. Singh G, Koduri S, Rao M, Kidorf M, Ruff S, **Patel A**, **Bentzen SM**, **Nichols E**, **McAvoy S**, **Vyfhuis MA**. [Cancer outcomes and cardiopulmonary toxicities for black patients with breast cancer treated with proton therapy](#). *JNCI Cancer Spectr*. 2024 Dec 28:pkae129. Online ahead of print.

Important Dates for Upcoming Funding Submissions

Below is an updated calendar with firm due dates for upcoming major standard NIH deadlines (RFA/PA dates may differ). Contact the Department Office of Research Administration (msegers@som.umaryland.edu) ASAP if you plan to submit any funding proposal, regardless of funder.

NIH deadline	DORA budget, prelim materials	Dean/SOM prelim materials	FINAL Dean/SOM/SPA
R01/U01 New Feb 5	1/23/2025	1/27/2025	1/29/2025
R21 New Feb 16	2/05/2025	2/07/2025	2/09/2025
R01/U01 Resub March 5	02/20/2025	2/24/2025	2/26/2025
R21 Resub March 16	03/04/2025	03/06/2025	3/10/2025