

# University of Maryland School of Medicine Department of Radiation Oncology: 2023

## Leadership



**Phuoc T. Tran, MD, PhD**  
Professor  
Vice Chair for Research



**Elizabeth Nichols, MD**  
Associate Professor  
Vice chair for clinical affairs



**Amit Sawant, PhD**  
Professor  
Vice Chair for Medical Physics



**Sarah Anne McAvoy, MD**  
Assistant Professor  
Vice Chair for Education

## Locations

University of  
Maryland and  
Medical  
Center  
Baltimore,  
MD

Central  
Maryland and  
Radiation  
Oncology  
Columbia, MD

Tate Cancer Center  
UM Baltimore  
Washington Medical  
Center  
Glen Burnie, MD

UM Upper  
Chesapeake  
Health  
Bel Air, MD

Maryland  
Proton  
Treatment  
Center  
Baltimore,  
MD

UM Shore  
Regional  
Health  
Easton, MD

Supporting core missions of education, patient care, research, and community outreach as we advance Precision Radiation oncology

Our 3 divisions collaborate to advance the latest radiation treatment technologies and techniques to make them available to patients across our 6-site statewide network. We are supported in this effort by our expert teams of basic scientists, physicists, and clinicians, widely recognized for success in clinical innovation. Among our 2022 achievements:

**Basic science:** Our Division of Translational Radiation Sciences' NIAID Centers for Medical Countermeasures Against Radiation Consortium \$12.8 million U19 group manages partnerships at Duke, Columbia, and other centers. A world leader in medical countermeasures research, the division has a cumulative support portfolio of >\$50 million. In addition, Phuoc Tran, MD, PhD, successfully transitioned his preclinical lab group to UMSOM, focusing on advancing precision radiation oncology as a unifying goal. In <1 year, his efforts resulted in >\$12 million in new research funding, including a U54 award.

**Clinical:** Our dedicated physicians and staff actively plan for practice site network expansion to ensure equitable access to the latest treatments and clinical trials. Despite pandemic challenges, >400 patients were enrolled on clinical trials and registries in 2022. As a designated NRG Main Member, we are #2 nationally/internationally for NRG trial accruals and have added Tata Memorial Hospital (India) as an NRG site.

**Physics:** Our large Medical Physics Division continues to lead in implementation of cutting-edge technologies across the bench-to-bedside spectrum, including a vigorous cross-divisional program in FLASH technology; integration of hyperthermia and radiation treatments at our Maryland Proton Treatment Center; clinical and research advancement of the Maryland-developed GammaPod breast treatment system, and launch of newly funded AI and deep-learning projects.

**Education:** For >100 years, our department has trained future radiation oncologists and educated referring physicians as well as the larger community. Our faculty supports successful programs for college/graduate/medical students (inc. research fellowships), respected medical and physics residency programs with expanded research options, additional fellowships, and ABR continuing education certifications.



**William F. Regine, MD, FACR, FASTRO, FACRO**  
Professor and  
Isadore & Fannie Schneider  
Foxman Chair

### In 2021-2022, our >70 faculty members:

- Published >160 peer-reviewed articles
- Delivered >300 scientific presentations, posters, and invited lectures
- Secured >\$17 million in new federal and industry funding and sustained an additional >\$30 million in continued support
- Hosted 4 national/international training courses
- Were featured in the local and national media >100 times.