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Department of Radiation Oncology

The Department of Radiation Oncology was created on July 1, 2001, having been part of the Mallinckrodt Institute of Radiology for many decades. The department has a broad academic program that focuses on excellence in patient care and the development of new treatment paradigms; innovative research in each of the four divisions of clinical, physics, biology and bioinformatics; and teaching for residents in radiation oncology, medical students and allied health personnel. The department is one of the largest, most academically balanced and best equipped in the country, and is responsible for all radiation therapy procedures at Washington University Medical Center. Our faculty has gained international recognition for innovative technological advances in physics and treatment planning, biological research, computer applications and clinical investigation.

Milestones

- demonstration of a hypoxic subpopulation in tumors in vivo
- demonstrated the importance of the cell cycle in the sensitivity to ionizing radiation
- customized (Cerrobend) shielding system to protect normal tissues during irradiation
- design and construction of the first small dedicated
- customized (Cerrobend) shielding system to protect normal tissues during irradiation