
DEPARTMENT OF RADIATION ONCOLOGY

The Department of Radiation Oncology was established as a separate department in the medical school and hospital in 1992. The Department functions in a collaborative effort as an integral component of the James P. Wilmot Cancer Center of the University of Rochester. The conceptual design of the Cancer Center brought together the key oncologic disciplines in one geographic area and provided an environment for the multidisciplinary care of cancer patients. The comprehensive goals of the Department are threefold: first, to provide high-quality care and optimal radiation therapy for patients, utilizing a multidisciplinary approach to cancer management in the Cancer Center and affiliate hospitals; second, to develop and conduct multimodal clinical trials and basic research to advance the understanding of cancer and to determine how to optimally sequence and combine ionizing radiation and other standard therapeutic modalities, as well as new modalities such as radiosensitizers, radioprotectors, and biologic response modifiers to increase cancer curability and improve the patient's quality of life; and third, to provide high-quality education programs in radiation oncology and its related biological and physical sciences for physicians, residents, fellows, medical students, radiation therapists, and research scientists.

EDUCATION

The Education Division is responsible for coordinating a number of programs and projects for the Department and Cancer Center with active involvement of all faculty members.

Residency Program

The Department sponsors a fully accredited residency training program in radiation oncology. Emphasis is placed on the development of sound clinical judgment, formal knowledge, and experience to continue clinical or laboratory research and an enthusiasm for perpetual self-education.

Fellowship Program

Fellowship positions for individuals interested in advanced study in clinical radiation oncology and radiation research are available. Fellows are also afforded the opportunity to gain experience in the highly specialized treatment modalities of high dose rate brachytherapy, stereotactic radiosurgery, electronic portal imaging, total body irradiation, and intravascular brachytherapy.

Physics and Dosimetry Training Programs

The Department sponsors training programs for medical dosimetrists and physicists. Through formal instruction, clinical internships, and on-the-job training, radiation therapists as well as students with bachelor's and master's degrees in mathematics and/or physics enter the dosimetry program and have completed training with considerable success.

Teaching

The Department also develops and sponsors numerous continuing medical education sessions for physicians and health care professionals, offers an elective course for medical students, and participates in supervising medical student internships. Radiation oncology conferences and teaching sessions are held weekly, often in conjunction with other departments in the medical school and divisions of the Cancer Center.

RESEARCH

Research programs of the Department are divided into four divisions: clinical radiation oncology, clinical investigations, radiation biology, and radiation physics. The research programs rely heavily on laboratory modeling and simulate clinical and physiopathological effects of radiation on human malignant disease and normal tissues. The Department's divisions of Clinical Investigation and Radiation Biology are actively involved in translational research activities involving clinical studies and *in vivo*, *in vitro* models to simulate clinical problems and to provide a scientific basis for clinical protocol design.

Additional information related to education, training, and research opportunities in radiation oncology are available by contacting: Chair, Department of Radiation Oncology, Box 647, University of Rochester School of Medicine and Dentistry, Rochester, NY 14642-8647.



Faculty of the Department of Radiation Oncology

Paul Okunieff . . . *Philip Rubin Professor of Radiation Oncology and Chair*. B.S. Massachusetts Institute of Technology, 1978; M.D. Harvard, 1982; Intern, Internal Medicine, Beth Israel Hospital, Boston, 1982–83; Resident, Radiation Medicine, Massachusetts General Hospital, Boston, 1983–86; Clinical Fellow, Department of Radiation Medicine, Harvard, 1986–87; Chief Resident in Radiation Medicine, Massachusetts General Hospital, 1985–86; Certified in Therapeutic Radiology, American Board of Radiology, 1986; Radiation Medicine Fellowship, Massachusetts General Hospital, 1986–87; Assistant Professor in Radiation Oncology, Harvard, 1988–93; Associate Radiation Oncologist, University Hospital, Boston, 1990; Co-Director, Department of Radiation Therapy, University Hospital, 1990–91; Chief, Radiation Neuro-Oncology, Massachusetts General Hospital, 1991–93; Adjunct Associate Professor, Georgetown University Hospital, Washington, D.C., 1993; Adjunct Associate Professor in Radiation Oncology, Georgetown, 1993–97; Chief, Radiation Oncology Branch, National Cancer Institute, Bethesda, Md. 1993–97; Philip Rubin Professor of Oncology and Chair, University of Rochester School of Medicine and Dentistry, 1997–.

Professors

Louis S. Constine, and Pediatrics and Oncology. B.A. Stanford, 1969; M.D. Johns Hopkins, 1973.

Jacob N. Finkelstein, and *Pediatrics*, and Environmental Medicine. B.S. Carnegie Mellon, 1971; Ph.D. Northwestern, 1976.

Peter C. Keng, and Biochemistry and Biophysics. B.S. Tung Hai University (Taiwan), 1986; Ph.D. Colorado State, 1978.

Cyril Meyerowitz, and *Dentistry*. D.D.S. University of Witwatersrand (South Africa), 1973; M.S. Rochester, 1979.

Colin A. Poulter, Emeritus. M.B.B.S. Westminster Medical School, 1955.

Philip Rubin, Emeritus. B.A. New York University, 1946; M.D. SUNY (Downstate), 1950.

Clinical Professor

Benjamin Sischy, Emeritus. M.S. University of Witwatersrand (South Africa), 1944.

Associate Professors

Bruce M. Fenton, and Oncology. B.S. Montana, 1972; M.S. 1975; Ph.D. University of California (San Diego), 1980.

Patrick J. Fultz, and *Radiology*. B.A. SUNY (Oswego), 1978; M.D. SUNY (Upstate), 1983.

Michael C. Schell. B.S. SUNY (Stony Brook), 1972; M.S. Kentucky, 1976; Ph.D. Wisconsin, 1984.

Yan Yu. B.Sc. University of London, 1983; Ph.D. 1986.

Clinical Associate Professors

Sandra McDonald. Ch.B. University of Stellenbosch, 1976; M.Med. 1982.

Sidney H. Sobel. B.A. Harvard, 1957; M.D. Albert Einstein, 1961.

Assistant Professors

Ralph Brasacchio. B.A. St. John's, 1982; M.S. Roswell Park, 1986; M.D. Jefferson, 1990.

Yuhchayou Chen. M.D., Ph.D. University of Washington, 1990.

Ivan Ding. M.D. Henan Medical University (China), 1976.

Marilyn Ling. B.A. Williams College, 1983; M.D. University of Maryland, 1988.

Ajay Sandhu. M.B.B.S. Panjab University (India), 1981; M.D. 1986.

George Uschold. B.S. SUNY (Buffalo), 1980; M.S. SUNY (Brockport), 1985; M.S. Rochester, 1987; Ed.D. 1990.

Research Assistant Professors

Jacqueline P. Williams. B.S. Nottingham (U.K.), 1979; Ph.D. London (U.K.), 1988.

Walter O'Dell. B.S. Cornell, 1986; Ph.D. Johns Hopkins, 1995.

Clinical Assistant Professors

Jan Dombrowski. B.S. Yale, 1982; M.D. Jefferson, 1989.

Muammer Tasbas. M.D. Aegean University (Turkey), 1976.

Neal Tobochnik. B.S. Drexel, 1970; M.S. University of California (Los Angeles), 1972; Ph.D. 1975; M.D. Texas, 1976.

Associates

Mojtaba Dabhashi. M.S. University of Southern Mississippi, 1984; M.S. Georgia Institute of Technology, 1989.

Nasser Tamimi. B.Sc. University of Jordan (Jordan), 1974; M.S. Middle East Technical University (Turkey), 1979; M.S. Ohio University, 1989; Ph.D. Kent State, 1989; M.S. Wayne State, 1993.

Adjunct Clinical Assistant Professor

Robert Rosenthal. B.S. Michigan, 1967; D.V.M. 1968; M.S. Illinois, 1982; Ph.D. 1985.

Clinical Senior Instructors

William B. Casey. B.S. Georgetown, 1984; M.D. 1988.

Kevin J. Mudd. M.D. SUNY (Downstate), 1991.

Clinical Instructors

Meri Atanas. B.A. SUNY (Binghamton), 1983; M.D. Tufts, 1988.

Alberto L. DaConceicao. M.D. Coimbra (Portugal), 1960.

Az Farhataziz. M.Sc. Panjab University (Pakistan), 1954; Ph.D. Cambridge (U.K.), 1959; M.D. University of Texas, 1988.

Clinical Assistant

Ahmed Y. Matloubieh. B.S. Arizona, 1979; M.Sc. 1982; M.Sc. Pittsburgh, 1987.