Radiation Oncology

Chair
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Faculty: https://medicine.uiowa.edu/radiationoncology/profile?
appointment=PRIMARY&category=&query=&page=1&size=10

Website: https://medicine.uiowa.edu/radiationoncology/

Radiation oncology specializes in the delivery of radiation
treatments for cancer patients. It includes treatments with
linear accelerators as well as isotopes and temporary and
permanent surgically implanted sources. Radiation oncologists
also use these methods to treat some benign diseases,
such as Graves' ophthalmopathy and trigeminal neuralgia.
Treatments often employ stereotactic CT-image-guided and
MR-image-guided techniques.

The Department of Radiation Oncology is dedicated to
educating undergraduate and graduate students, MD and
other health professions students, and residents. Its faculty
members provide instruction for Doctor of Philosophy students
in the Free Radical and Radiation Biology Program through
their participation in FRRB:3110 Medical Physics I, FRRB:3215
Medical Physics II, FRRB:5000 Radiation Biology, FRRB:7000
Redox Biology and Medicine, and FRRB:7001 Molecular and
Cellular Biology of Cancer.

The department's professional staff provides training
in radiation therapy technology for undergraduate
students in the Radiation Sciences Program by teaching
courses RSTH:3120 Radiation Therapy Clinical Internship I,
RSTH:3225 Radiation Therapy Clinical Internship II, RSTH:3325
Radiation Therapy Clinical Internship III, RSTH:4125 Radiation
Therapy Clinical Internship IV, and RSTH:4225 Radiation
Therapy Clinical Internship V.

The department also offers specialized research projects and
sponsors postdoctoral students in biology, physics, and clinical
disciplines by arrangement with the instructor or mentor.
Frequently, students from the departments of Biomedical
Engineering and Electrical and Computer Engineering are
involved.