

Fred Bunz, M.D., Ph.D.

Associate Professor of Radiation Oncology and Molecular Radiation Sciences

Member, Sidney Kimmel Comprehensive Cancer Center

Director, Cell Imaging Core facility

Co-director, Training in Radiation Research program

Joint appointment in Cellular and Molecular Medicine

Education:

- 1986 B.S., Biochemistry, State University of New York at Stony Brook, Stony Brook, NY.
- 1992 Ph.D, Cellular and Molecular Biology, State University of New York at Stony Brook, School of Medicine, Stony Brook NY
- 1995 M.D., Medicine, State University of New York at Stony Brook, School of Medicine, Stony Brook NY
- 1986-1995 Medical Scientist Training Program, State University of New York at Stony Brook School of Medicine and Cold Spring Harbor Laboratory, NY
- 1994-1998 Postdoctoral Research Fellowship, Johns Hopkins Oncology Center and Howard Hughes Medical Institute, Johns Hopkins University, Baltimore MD

Awards, Honors:

- 1986 Phi Beta Kappa, State University of New York at Stony Brook
- 1999 A. McGehee Harvey Award, Johns Hopkins University School of Medicine
- 2001 V Scholar Award, The V Foundation for Cancer Research
- 2003 Young Clinical Scientist Award, Flight Attendant Medical Research Institute
- 2003 GRC Young Investigator Award, American Society for Therapeutic Radiology and Oncology (ASTRO)

Recent Publications:

Rago C, Vogelstein B, **Bunz F**. Genetic knockouts and knockins in human somatic cells. *Nat Protoc.* 2007; 2:2734-2746.

Wilsker D and **Bunz F**. Loss of ATR function potentiates the effects of chemotherapeutic drugs on cancer cell survival. *Mol Cancer Ther.* 2007; 6:1406-1413.

Hurley PJ and **Bunz F**. ATM and ATR: components of an integrated circuit. *Cell Cycle.* 2007; 6:1406-1413.

Hurley PJ, Wilsker D, **Bunz F**. Human cancer cells require ATR for cell cycle progression following exposure to ionizing radiation. *Oncogene.* 2007; 26:2535-42.

Matoba S, Kang J-G, Patino WD, Wragg A, Boehm M, Gavrilova O, Hurley PJ, **Bunz F**, Hwang PM. p53 Regulates Mitochondrial Respiration. *Science* 2006; 312:1650-1653.

Topaloglu O, Hurley PJ, Yildirim O, Civin CI, **Bunz F**. Improved methods for the generation of human gene knockout and knockin cell lines. *Nucleic Acids Res.* 2005; 33:e158.