

**Table 2. Participating Faculty Members  
(Alphabetically by Faculty Member)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

<b>Name/Degree(s)</b>	<b>Rank</b>	<b>Primary (&amp; Secondary) Appointment(s)</b>	<b>Role in Program</b>	<b>Research Interest</b>
Buettner, Garry (PhD)	Professor	Radiation Oncology	Primary Mentor	Basic chemistry and biology of free radicals and related oxidants in human health.
Chen, Songhai (MD, PhD)	Associate Professor	Pharmacology & Internal Medicine	Secondary Mentor	Function and signaling mechanisms of G proteins and their receptors.
Cornell, Robert (PhD)	Associate Professor	Anatomy & Cell Biology	Secondary Mentor	Use of zebrafish tool kit to explore genetic underpinnings of human disease.
Cullen, Joseph (MD)	Professor	Surgery (Radiation Oncology)	Primary Mentor & Associate Program Director	Pharmacological ascorbate as an adjuvant to radiotherapy, to treat pancreas cancer.
Engelhardt, John (PhD)	Professor	Anatomy & Cell Biology	Primary Mentor	The molecular basis of inherited and environmentally induced diseases, and on the development of gene therapies for these disorders.
Goswami, Prabhat (PhD)	Professor	Radiation Oncology-Free Radical & Radiation Biology	Primary Mentor	Mechanistic understanding of the role intracellular redox-state plays in regulating the mammalian cell cycle, and the establishment of a link between ROS-signaling and other aspects of intracellular signaling networks.
Lentz, Steven (MD, PhD)	Professor	Internal Medicine/Hematology-Oncology	Primary Mentor	Mechanisms of thrombosis and vascular dysfunction.

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Leslie, Kimberly (MD)	Professor and Chair	Obstetrics & Gynecology (Molecular & Cellular Biology, MSTP)	Primary Mentor	Cancer and Hormones (Molecular biology of hormone action and hormone receptors in reproductive tissues.)
McCray, Paul (MD)	Professor	Pediatrics/Allergy-Pulmonary	Primary Mentor	Cystic fibrosis, epithelial biology, innate immunity and the applications of gene transfer for lung diseases.
O'Dorisio, M. Sue (MD, PhD)	Professor	Pediatrics/Hematology-Oncology	Primary Mentor	Identification of GPCRs that can serve as theranostic targets for both imaging and therapy.
Rosenthal, Gary (MD)	Professor	Internal Medicine	Primary Mentor	1) Interventions to improve the implementation of evidence-based practices; 2) measurement of quality care; and 3) development of new methods for measuring severity of illness.
Schultz, Michael (PhD)	Associate Professor	Radiology	Secondary Mentor	Developing a detailed understanding of differences in cancer cell metabolism and cell surface antigen expression.
Sigmund, Curt (PhD)	Professor	Pharmacology	Primary Mentor	Identification of target genes of the transcription factor PPAR $\gamma$ .
Simons-Burnett, Andean (PhD)	Assistant Professor	Pathology	Secondary Mentor	Signaling pathways and oxidative stress in cancer progression.

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Spitz, Douglas (PhD)	Professor	Radiation Oncology-Free Radical & Radiation Biology	Primary Mentor	Role of metabolic oxidative stress in radiation biology, cancer biology, and cancer therapy.
Taylor, E.B. (PhD)	Assistant Professor	Biochemistry	Secondary Mentor	Cancer-related research on mitochondrial metabolism.
Weigel, Ronald (MD, PhD, MBA)	Professor	Surgery	Program Director, Primary Mentor	Mechanisms of gene regulation and hormone response in breast cancer.
Weiner, George (MD)	Professor	Cancer Center/Internal Medicine	Primary Mentor	Evaluation of the mechanisms responsible for the response of lymphoma to monoclonal antibody therapy and on use of TLR9 agonists as therapeutic agents for lymphoid malignancy.