

Imaging Science Seminar

Precision Imaging of Multiple Myeloma

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Abstract: Multiple myeloma is an age-related, lethal, hematological malignancy with an estimated thirty thousand new cases and thirteen thousand deaths in 2017 alone. A disease of antibody-secreting clonal plasma B-cells that grow primarily in the bone marrow, multiple myeloma is characterized by debilitating fractures, anemia, renal failure and hypercalcemia. Targeted molecular and metabolic imaging combined with advanced anatomical scans can elucidate the interaction of myeloma cells with surrounding tissue that drives myeloma pathogenesis. This lecture will cover the basics of imaging multiple myeloma. Use of optical, nuclear and magnetic resonance imaging in myeloma mouse models will be discussed.

Time: 8:40-9:30 a.m.
Date: Friday, Dec. 8, 2017
Room: 0120 Green Hall

Dr. Shokeen holds honors degree in Chemistry from University of Delhi, India, M.B.A. from Kurukshetra University, India and a Master and Ph.D. in Chemistry from Washington University in Saint Louis. She completed her post-doctoral fellowship at Washington University Medical School in radiochemistry and nanomedicine (2006-2009). Dr. Shokeen was appointed Instructor in Radiology in 2009 and tenure track Assistant Professor in Radiology in 2014. She holds a joint appointment in Biomedical Engineering and is a Division of Biology and Biomedical Sciences faculty in the molecular cell biology program. The core research focus of her group is to investigate dysregulated proteins and altered mechanisms in cancer and cardiovascular disease. Current projects in Dr. Shokeen's lab span from basic science discoveries to efforts toward translating improved imaging approaches to patients.