Abstract: Multiple myeloma is an age-related, largely incurable hematological malignancy of clonal plasma cells. Myeloma pathogenesis starts with diffuse accumulation of malignant plasma cells in the bone marrow, followed by focal lytic lesions and end organ damage. Radiological data are crucial for defining and managing multiple myeloma. Our lab has been involved in developing techniques to efficiently image multiple myeloma across different imaging scales. This lecture will cover the application of optical, nuclear and magnetic resonance imaging in multiple myeloma.

Biography. Dr. Shokeen holds honors degree in Chemistry from University of Delhi, India, MBA 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 is a NIH funded investigator whose core research focus is to investigate dysregulated proteins and altered mechanisms in cancer and cardiovascular disease.