

Imaging Research in the OSU Department of Radiology - 2014

Research-Focused Faculty Member	Division	Representative Research Interests
Michael V. Knopp, MD, PhD <i>(Vice Chair-Research & Division Chief)</i>	Imaging Sciences	<ul style="list-style-type: none"> • Advanced neurologic and oncologic applications of 7T MRI • Advanced molecular imaging
Arunark Kolipaka, PhD	Imaging Sciences	<ul style="list-style-type: none"> • Cardiovascular MR elastography
Krishan Kumar, PhD	Imaging Sciences	<ul style="list-style-type: none"> • Metabolic imaging agent development
Georgeta Mihai, PhD	Imaging Sciences/Medical Physics	<ul style="list-style-type: none"> • Vessel wall MRI
Petra Schmalbrock, PhD	Imaging Sciences	<ul style="list-style-type: none"> • High-field neurologic MRI
Michael F. Tweedle, PhD	Imaging Sciences	<ul style="list-style-type: none"> • Metabolic imaging agent development
Xiangyu Yang, PhD	Imaging Sciences/Medical Physics	<ul style="list-style-type: none"> • Quantitative tumor imaging by MRI
Jun Zhang, PhD	Imaging Sciences	<ul style="list-style-type: none"> • Low-dose PET development
Rick R. Layman, PhD <i>(Division Chief)</i>	Medical Physics	<ul style="list-style-type: none"> • Advanced applications of CT (e.g. spectral CT)
B. Selnur Erdal, PhD	Medical Imaging Informatics	<ul style="list-style-type: none"> • Quantitative image textural analysis
Altaf A. Wani, PhD <i>(Division Chief)</i>	Radiobiology	<ul style="list-style-type: none"> • Mechanisms of DNA damage and repair
Qi-En Wang, MD, PhD	Radiobiology	<ul style="list-style-type: none"> • Chemotherapy-induced apoptosis
Qianzheng Zhu, PhD	Radiobiology	<ul style="list-style-type: none"> • Mechanisms of DNA damage and repair
Kristin M. Dittmar, MD	Abdominal & Pelvic Imaging <i>(Tenure Track Radiologist)</i>	<ul style="list-style-type: none"> • Advanced tumor ablation
Joshua D. Dowell, MD, PhD	Interventional Radiology <i>(Tenure Track Radiologist)</i>	<ul style="list-style-type: none"> • Imaging of aortic wall pathophysiology
Chadwick L. Wright, MD, PhD	Molecular Imaging & Nuclear Medicine <i>(Tenure Track Radiologist)</i>	<ul style="list-style-type: none"> • Radionuclide-based guidance in tumor surgery