The University of Texas MD Anderson Cancer Center Division of Diagnostic Imaging Physician-Scientist Advanced Scholar Program

THE UNIVERSITY OF TEXAS
MD Anderson
Cancer Center

Making Cancer History®

Physician-Scientist Advanced Scholar Program in Oncologic Imaging

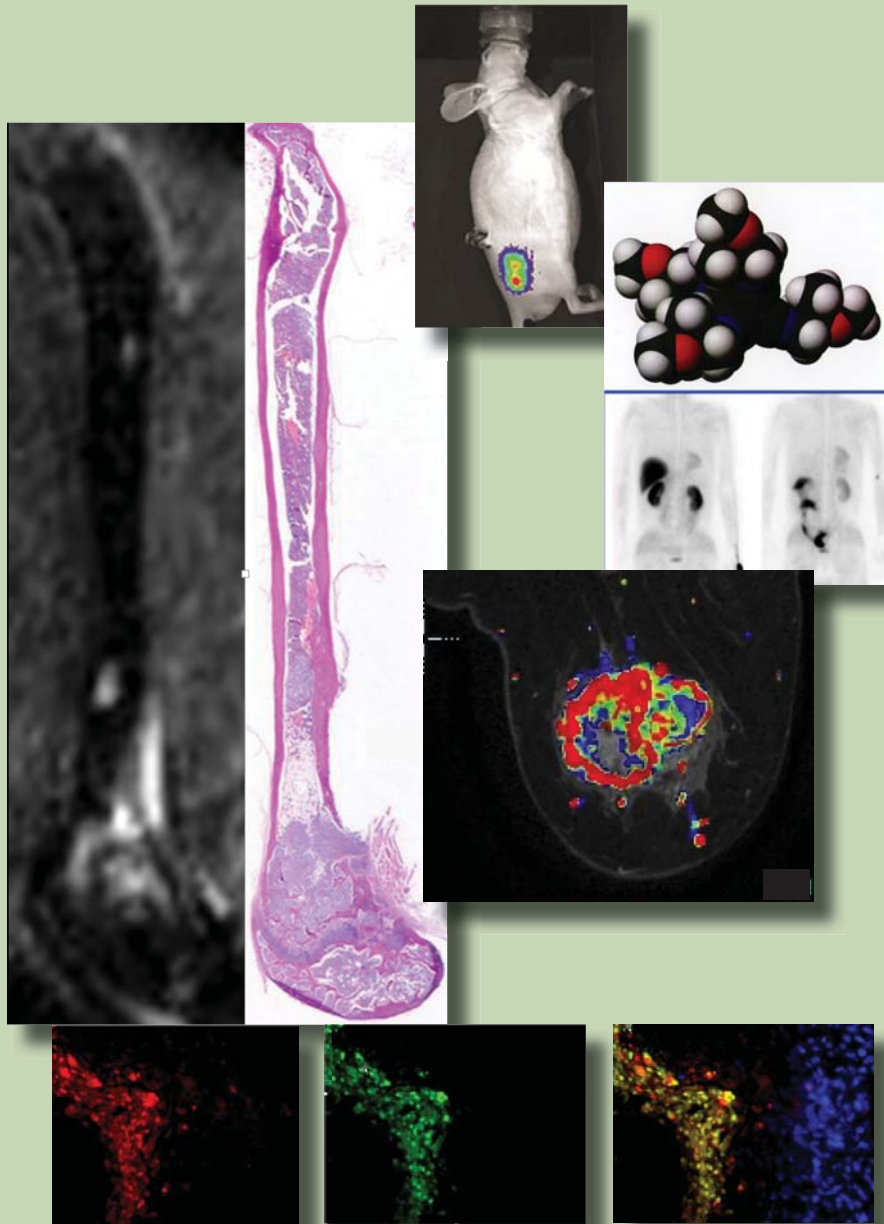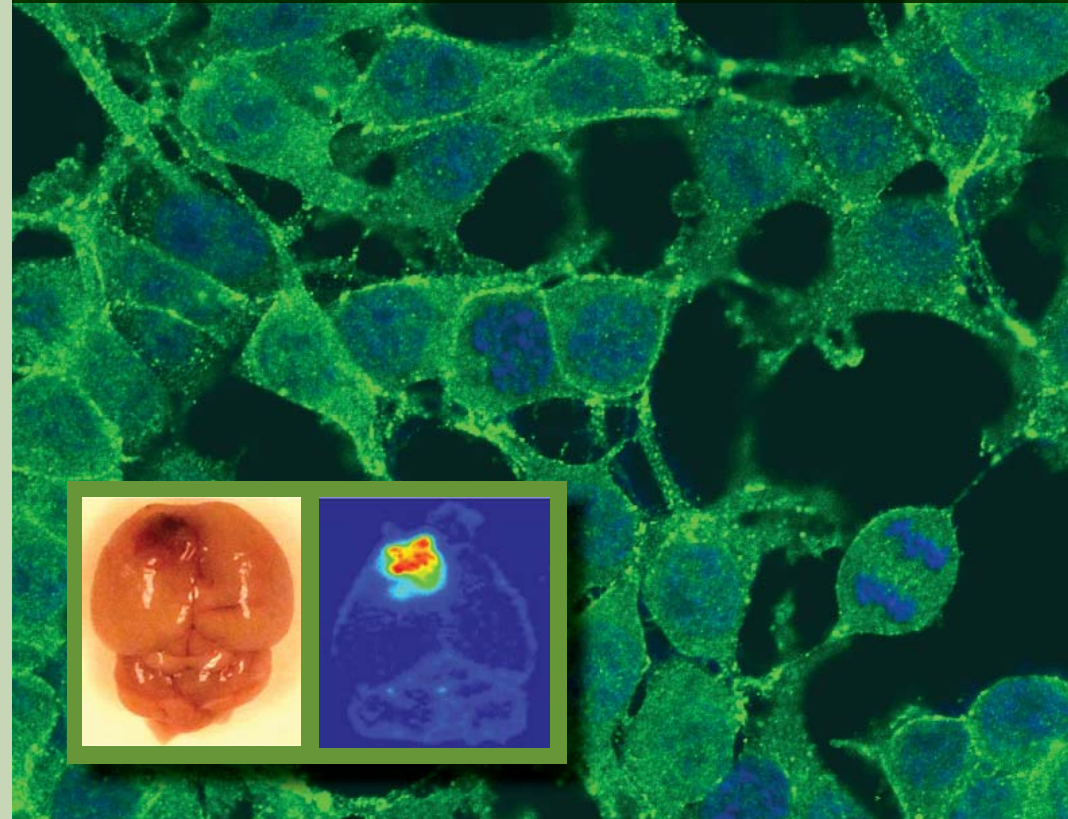*(Intensive 2-3 year mentored research experience
after a traditional 1 year clinical fellowship)*

The Physician-Scientist Advanced Scholar training program in Oncologic Imaging at The University of Texas MD Anderson Cancer Center pairs enthusiastic and talented young physician-scientists with established faculty mentors for an intensive 2-3 year experience specifically designed to promote innovative and transformative research in the field of oncologic imaging and therapy. The research experience is customized to match the interest and expertise of the applicant. At the end of the program, these physician-scientists are well poised to compete for NIH Grants and Funding such as K01s (Mentored Research Scientist Development Award) and K99s (Pathway to Independence Award) as they enter into an Assistant Professor position.

Application Timeline:
Pre-fellowship thru early first year of Clinical Fellowship
Appointment: 2-3 years in duration post Clinical Fellowship
Faculty Title: Instructor
Effort: 75% research, 25% clinical
Custom designed research experience: wet bench, dry bench, interventional, animal, biostatistics, epidemiology, co-mentored by well-established research faculty (MD or PhD).
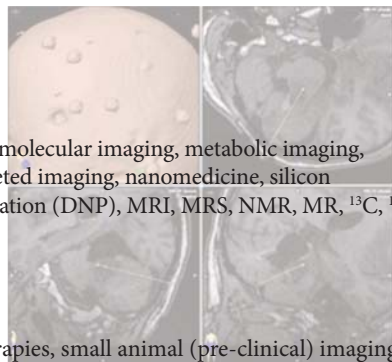
Pratip Bhattacharya, PhD
Associate Professor
Cancer Systems Imaging
Research Interests: hyperpolarization, molecular imaging, metabolic imaging, metabolomics, real-time imaging, targeted imaging, nanomedicine, silicon nanoparticles, dynamic nuclear polarization (DNP), MRI, MRS, NMR, MR, ^{13}C, ^{15}N,

John D. Hazle, PhD
Professor and Chair
Imaging Physics
Research Interests: image guided therapies, small animal (pre-clinical) imaging and nano-magneto relaxometry (nanoMRX)
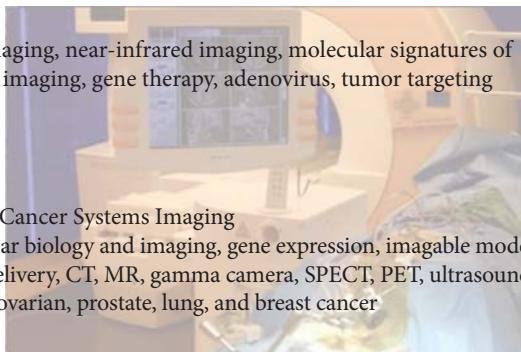
Victor Krasnykh, PhD
Associate Professor
Cancer Systems Imaging
Research Interests: PET imaging, near-infrared imaging, molecular signatures of tumors, molecular-genetic imaging, gene therapy, adenovirus, tumor targeting

Vikas Kundra, MD, PhD
Professor
Diagnostic Radiology and Cancer Systems Imaging
Research Interests: Molecular biology and imaging, gene expression, imagable models of disease, nanoparticles, delivery, CT, MR, gamma camera, SPECT, PET, ultrasound, optical, hyperpolarization, ovarian, prostate, lung, and breast cancer

Chun Li, PhD
Professor
Cancer Systems Imaging
Research Interests: theranostics, image-guided drug delivery, cancer nanotechnology, radiopharmaceutics

Jingfei Ma, PhD
Professor
Imaging Physics
Research Interests: development and application of novel MRI data-acquisition and image-processing techniques
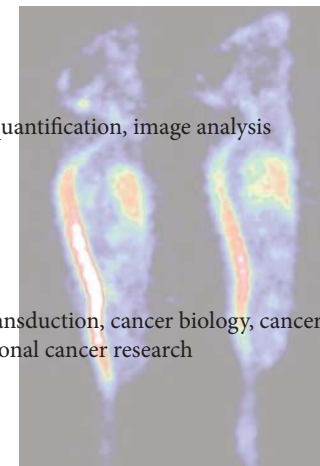
Osama Mawlawi, PhD
Professor
Imaging Physics
Research Interests: nuclear medicine, PET/CT, quantification, image analysis

David Piwnica-Worms, MD, PhD
Professor and Chair
Cancer Systems Imaging
Research Interests: molecular imaging, signal transduction, cancer biology, cancer metabolism, bioluminescence imaging, translational cancer research

Aliya Qayyum, MD
Professor
Diagnostic Radiology
Research Interests: clinical and translational studies with greatest focus on liver disease and prostate cancer, gynecologic and pancreatic malignancy, analysis of imaging biomarkers (MRI and CT) of cancer, and correlation with pathology, tumor markers

Eric Rohren, MD, PhD
Professor
Nuclear Medicine and Diagnostic Radiology
Research Interests: molecular imaging, PET/CT, nuclear medicine, investigational radiotracers, targeted radionuclide therapy
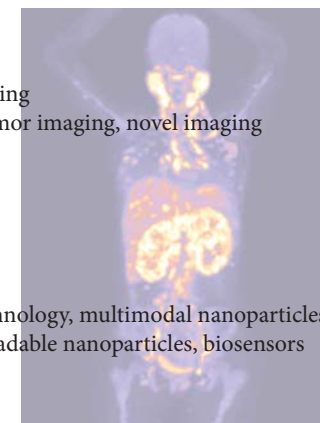
Dawid Schellingerhout, MD
Associate Professor
Diagnostic Radiology and Cancer Systems Imaging
Research Interests: molecular imaging, brain tumor imaging, novel imaging technologies

Konstanin Sokolov, PhD
Professor
Imaging Physics
Research Interests: molecular imaging, nanotechnology, multimodal nanoparticles, plasmonic nanoparticles, drug delivery, biodegradable nanoparticles, biosensors

Wei Yang, MD
Professor and Chair
Diagnostic Radiology
Research Interests: optical imaging, photoacoustics, laser acoustic, optical spectroscopy, breast neoplasm, axillary nodes, breast cancer