Candidates interested in the Physician-Scientist Advanced Scholar training program in Oncologic Imaging at The University of Texas MD Anderson Cancer Center should submit a letter of interest and a Curriculum Vitae to Osama R. Mawlawi, Ph.D., FAAPM, Program Director, AdvancedScholarProgram@mdanderson.org. Select individuals will be identified by committee review to participate in a comprehensive application process, with positions offered to the most exceptional applicants.
Physician-Scientist Advanced Scholar Program in Oncologic Imaging
(Composite 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, 13C, 15N,

- **John D. Hazle, PhD**
  - Professor and Chair
  - Imaging Physics
  - Research Interests: image guided therapies, small animal (pre-clinical) imaging and nano-magnetorelaxometry (nanoMRX)

- **Vikas Kundra, MD, PhD**
  - Professor
  - Diagnostic Radiology and Cancer Systems Imaging
  - Research Interests: PET imaging, near-infrared imaging, molecular signatures of tumors, molecular-genetic imaging, gene therapy, adenovirus, tumor targeting

- **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

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

- **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

- **Osama Mawlawi, PhD**
  - Professor
  - Imaging Physics
  - Research Interests: nuclear medicine, PET/CT, quantification, image analysis

- **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

- **Vikas Kundra, MD, PhD**
  - Professor
  - Diagnostic Radiology and Cancer Systems Imaging
  - Research Interests: hyperpolarization, molecular imaging, gene therapy, adenovirus, tumor targeting

- **Konstantin 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