



## SIR Foundation Summer Medical Student Internship Program

Institution Name: The University of Texas, MD Anderson Cancer Center

Responsible mentoring physician: Rahul Sheth, MD

Length of proposed curriculum: **The internship should be 8 weeks and at least 40 hours per week.**

**A. Please provide a brief description of how each of the following curriculum elements will be demonstrated/taught through your program.**

The Department of Interventional Radiology at MD Anderson Cancer Center has a robust preclinical research lab with a strong track record of training students. The focus of my research is on exploring the immunologic ramifications of locoregional therapies such as ablation and embolization as well as developing new image-guided therapies that augment the local tumor immune microenvironment. Students will work on developing their own research project, designing the appropriate experiments, conducting these experiments, collecting and analyzing the data, and presenting their results in oral and written form.

**B. Please provide the details on the instructional setting and methodology (laboratory, classroom), description of any educational resources (PowerPoint presentations, textbooks, selected readings), and assessment techniques (question and answer sessions, tests) to be used in the process of instruction.**

We have a fully resourced interventional radiology lab including state-of-the-art interventional imaging equipment (Siemens Acuson ultrasound, Miyabi CT-on-rails, Artis Q fluoroscopy) as well as ample wet bench space. MD Anderson is a world class research institute, and students will have access to the full breadth of the institution's research resources.

**D. Please provide a brief outline of available research topics, one of which the student will select for completion as part of the program. The projects should be of a scope appropriate for completion within the limited time frame provided.**



Evaluating the immunologic ramifications of tumor-directed therapies (hyperthermia, embolization, direct delivery of various immunotherapies) locally within the tumor and at remote tumor sites in preclinical cancer model