



Post-Doctoral Fellowship in Therapeutic Ultrasound

With nation-wide responsibility for improving the health and well-being of all Americans, the Department of Health and Human Services oversees the biomedical research programs of the National Institutes of Health and those of NIH's research Institutes.

The Frank Laboratory in the Clinical Center and National Institute of Biomedical Imaging and Bioengineering, NIH is accepting applications for a two-three-year research fellowship position for qualified Ph.D., M.D., or MD/Ph.D. candidates with Therapeutic Ultrasound (TUS) including focused ultrasound (FUS) and low-intensity pulsed ultrasound (LIPUS), Biomedical Engineering, or Cancer Immunotherapy background to enter into an exciting new area of research that enhances cellular therapy by using focused ultrasound to treat cancer. The research focuses on understanding the molecular effects of TUS in tissues and organ systems and combining Cellular Therapies (Stem Cells, Genetically Engineered Cells, T-cells) coupled with TUS approaches serving as an adjuvant to target and treat malignancy. We are exploring several experimental model systems as well as exploring the effects of drug-host interactions on cellular therapy and serving as proof of concept of Therapeutic US to facilitate innovative cell therapy strategies.

One major research interest is to translate Therapeutic Ultrasound techniques developed in the lab and bringing the technology forward to clinical trials. The lab has an MRI compatible FUS system, Ultrasound based FUS System, 3T MRI scanner, 7T microimager, μ PET/ μ CT, confocal microscopy, and fully equipped cellular and molecular biology laboratory with a dedicated tissue culture room.

Salary for positions is commensurate with experience. Candidates should send a cover letter, curriculum vitae, and names and addresses of three references to:

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http://www.cc.nih.gov/about/SeniorStaff/joseph_frank.html