

## **Postdoctoral Position in Heart and Lung Metabolism**

A postdoctoral training position is available jointly in the laboratories of [Gaurav Sharma, Ph.D.](#) and [Matthias Peltz, M.D.](#), in the Department of Cardiovascular and Thoracic Surgery at UT Southwestern Medical Center to study intermediary metabolism and energetics in donor human hearts for transplantation, metabolism in lungs using Ex Vivo Lung Perfusion (EVLP) in preclinical model and donor human lungs, and clinical translation of hyperpolarized Carbon-13 MR spectroscopic imaging. The candidate's research topic is flexible and will be determined after discussion. [Our laboratory](#) has several exciting projects related to investigating metabolism in heart during hypothermic machine perfusion, and investigating metabolism in Ex Vivo Lung Perfusion and assessing metabolism in viable myocardium using hyperpolarized carbon-13 metabolic imaging.

Candidates must possess a recent Ph.D. and/or M.D. degree in a relevant discipline. It is recommended that candidates have experience in one or more of the following domains that has resulted in publications in peer-reviewed journals: Hyperpolarized  $^{13}\text{C}$  -MRI, X-nuclei MRI, advanced image reconstruction pulse sequence programming, PET-MR imaging and metabolic imaging data analysis. Additionally, experience in heart or lung imaging, as well as knowledge of heart and lung metabolism, is desirable. Preferred qualifications include expertise in acquiring, processing, and analyzing human MRI data, along with proficiency in data analysis and post-processing using R, MATLAB or Python.

Information on our postdoctoral training program, benefits, and a virtual tour can be found at <http://www.utsouthwestern.edu/postdocs>.

Interested individuals should send a CV, statement of interests, and a list of three references to:

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