

POSTDOCTORAL and LAB MANAGER POSITION: Mitochondria-SR Communication: Calcium, ROS and Bioenergetics Signaling in Cardiac Muscle Cells, Thomas Jefferson University (TJU), Philadelphia, PA

My lab is seeking one postdoctoral fellow and one lab manager to conduct research in mitochondria-SR crosstalk signaling in healthy and diseased cardiac muscle cells. The lab currently focuses on elucidating the mechanisms of energetic homeostasis in beating heart, privileged Ca^{2+} transport from SR to mitochondria, non-canonical role of DRP1 in regulating cardiac energetics, and various forms of mitochondrial permeability transition pores.

Our lab collaborates extensively with several investigators including Dr. Csordas in MitoCare at TJU, Dr. Wang at U. of Washington, Dr. Yoon at Augusta U. and Dr. Pavlov at NYU. We publish extensively as indicated in the *Google Scholar* with over 13,000 citations and 59 h-index. <https://scholar.google.com/citations?user=yQ2WMBMAAAAJ&hl=en>

Applicants for both positions must have profound experiences in cardiac physiology and/or mitochondrial biology. Research skills in single cardiomyocytes isolation, Langendorff heart perfusion, Ca^{2+} imaging, confocal microscopy, electrophysiology, biochemical and molecular biology will be beneficial. The candidates should be able to carry out experiments independently and collaborate and publish with other members of the lab. A solid record in scientific publications and skills in presentations and grant writings are valuable. I have a strong track record in training the next generation of scientists with numerous former trainees obtained excellent positions in academia and industry.

My lab is located at the Center for Translational Medicine in the TJU.

<http://www.jefferson.edu/university/skmc/departments/medicine/our-research/center-translational-medicine.html>

The lab is in contiguous to the laboratories of the Center for Mitochondrial Imaging Research and Diagnostics (MitoCare <http://blogs.jefferson.edu/atjeff/2014/01/06/mitocare-center-debuts-at-jefferson/>) that has a critical mass of renown investigators working collaboratively on mitochondrial signaling and pathogenesis research.

TJU is located in the vibrant Center City, 5 blocks away from the Independence Hall in the historical area of Philadelphia. Interested candidates should send electronically CV, a brief cover letter highlighting their career goals and major accomplishments and names and contact information for three references to: shey-shing.sheu@jefferson.edu,

Thomas Jefferson University and Hospitals is an equal opportunity employer. Jefferson values diversity and encourages applications from women, members of minority groups, LGBTQ individuals, disabled individuals, and veterans.

Shey-Shing Sheu, Ph.D.

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<https://research.jefferson.edu/labs/researcher/sheu-research.html>