Research Assistant Position
tufts medical center
molecular cardiology research institute
Boston, Mass.

Research Assistant: Seeking a highly motivated applicant with a strong background in animal handling and primary cell culture, experience in tissue preparation and western blot analysis to become a part of our team. This is an NIH funded project for the study of the mechanism of cardiac arrhythmias and diastolic dysfunction in mouse models for diabetes and the metabolic syndrome. This project involves working with several mouse models. The applicant will maintain and treat mice prior to and following survival surgery including implantation of EKG transmitters and coronary artery ligation, harvest hearts and carry out western blot analysis of cardiac extracts. The applicant will be trained to generate high quality cardiomyocytes in culture and measure Ca transients and contractility in response to pacing protocols using Ionoptix technology. Applicant will also be trained in survival surgery. Will treat cardiomyocytes with small molecule activators or inhibitors of signaling pathways prior to physiologic studies or harvesting for effects on second messengers and singling proteins.

Data analysis: The applicant will independently analyze experimental results and troubleshoot in discussions with the Principal Investigator and will participate in the design of new experiments, maintain careful records.

Laboratory responsibilities: Maintain laboratory supplies and inventory.

Other Skills: The applicant should have strong interpersonal skills and ability to perform time-sensitive studies and interact with other members of the research team. Must possess strong oral and written communication skills, attention to detail and reliability. Be highly organized and highly trustworthy working with precious animals.

Education: Bachelor of Science degree in a biological/physical science is highly recommended. An associate degree in a biological/physical science with extensive work experience will also be considered.

Experience: A minimum of two years progressive experience in a research laboratory setting with cell culture and animal handling experience.

References: upon request.

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