Postdoctoral fellowship in basic and translational heart failure

Summary

Immediate opening for one PhD postdoctoral candidate to join a highly translational molecular imaging and nanotherapy group. The position is open to both US graduates and International candidates with appropriate visa status. The appointee(s) will have earned a Ph.D., in molecular biology, physiology, biochemistry, pathology, or other related basic science disciplines with a specific background in acute and chronic heart failure pathophysiology and mechanisms. Experience with in vivo experimental preparations of cardiac models (e.g., infarction, TAC, LV pressure-volume, Langendorff preparations, ultrasound and MR imaging, etc.) in rodents is required. Experience with in vitro preparations of myocytes, myoblasts, and related cell types for elucidation of molecular signaling events and response to pharmacological intervention is critical for evaluation of novel nanotherapeutics. Opportunities exist for participation in multiple ongoing NIH-sponsored projects including but not limited to:

- The development and testing of nanoparticle-based approaches for prevention of ischemia-reperfusion injury and cardiac protection and/or regeneration after myocardial infarction, including delivery of siRNA, miRNA, mRNA, and DNA with novel peptide-based oligonucleotide nanostructures
- The role of inflammation and macrophages and fibroblasts in models of heart failure with preserved ejection fraction
- Cardio-Oncology and mechanisms of heart failure associated with cancer and cancer chemotherapy, and response to localized nanotherapeutics

The selected candidate is expected to work independently, with other lab members, and under general supervision of collaborating PI(s), in concert with the Principal Investigator to move the project(s) forward effectively. The selected candidate may be responsible for the following activities: develop and implement research strategies based on thorough and rigorous literature reviews; develop and modify research protocols; manage data entry and storage; prepare research protocols, reports, abstracts, and manuscripts; attend international meetings; mentor junior members of the lab and students in imaging methodologies.

Preferred Qualifications

- Strong organization skills and significant attention to detail.
- Outstanding strategic thinking, planning and communications skills.
- Self-motivated and able to initiate necessary actions without instruction.
- Ability to remain on-task and simultaneously manage multiple aspects of the daily workload.
- Ability to work both independently and with a team, resolving issues promptly and with a positive outcome.
• Very high level of integrity, ethics and professionalism.
• Very strong verbal and written communication skills and computer skills.
• Respect for peers and team members.

The Principal Investigator

Dr. Samuel Wickline M.D., Professor of Cardiovascular Science, TGH Endowed Chair of Cardiovascular Medicine, Director of University of South Florida (USF) Health Heart Institute, and Interim Director of the Department of Cardiovascular Sciences joined the USF in December 2016 and brings active research programs from Washington University School of Medicine. The USF Heart Institute brings together a critical mass of basic science, translational, and clinical researchers to address unmet medical needs related to cardiovascular disease (CVD), the number one killer of Americans today. Dr. Wickline's laboratory, funded by NIH, is a multidisciplinary basic and applied research environment and training venue with a translational focus. Our research activities cross many Departments, Schools, and Institutions to create and deploy new diagnostic imaging and therapeutic technologies for myriad diseases including cardiovascular, cancer, hematology, renal, pulmonary, infection, metabolism, gastrointestinal, orthopedic, gynecological, among others. Graduate students and postdoctoral fellows are represented from diverse Departments including Biomedical Engineering, Physics, Medicine, Pathology, Molecular and Cellular Biology, and Computational Biology among others. Please see: http://health.usf.edu/medicine/cardiology/faculty/2871501/Wickline

Information regarding Staff and Administration benefits can be found by visiting the following website: http://www.usf.edu/work-at-usf/benefits/

In order to apply for this position, please visit the USF Careers website (http://www.usf.edu/work-at-usf/careers/) and click on “Access Careers@USF.” From there, search for job ID 15105 and follow the directions listed in the posting to apply. Please make sure to upload your cover letter and CV. Three references will be requested for promising candidates (one reference must be current your current supervisor) after initial review.

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