



Are you passionate about inter-disciplinary research in molecular biology and medicine? Want to be a part of National Institute of Health and American Heart Association funded studies at the intersection of cardiology and oncology, disease mechanism and therapy, and join a collaborative and supportive team environment at the heart of Boston, U.S.A.?

A **Postdoctoral Research Fellow** position (2 years, extendable beyond that) is available in the Molecular Cardiology Research Institute (MCRI), Tufts Medical Center, Chen laboratory. We investigate the impact of autophagy, a cellular degradative and recycling process, on the heart and tumor utilizing state-of-the-art autophagy imaging technology (Nat Biomed Eng. 2022 Sep;6(9):1045-1056). We are passionate about optimizing autophagy modulation as a viable therapeutic strategy that is translatable (PLoS One. 2023 Mar 16;18(3):e0282859). Our experimental approaches include: in vitro cell models, molecular biology, high resolution intravital microscopy, flow cytometry, state-of-the-art in vivo molecular imaging of the cardiovascular system and tumor in murine disease models, in vivo cardiovascular function studies, mitochondrial biology and metabolism, multi-omics and signaling studies, extracellular vesicles, pharmacology, nanoparticles, nanoprobe synthesis, theranostics. Our long-term goal is to translate the molecular insights gained from the bench to improve cardiovascular and human health.

Candidates will hold a PhD, MD/PhD, or equivalent in biology, bioengineering, or health sciences fields, have excellent writing and communications skills, and committed to a career in cardiovascular science. The postdoc will have the opportunities to submit to fellowship and other grant funding mechanisms to prepare for an independent career. Prior experience in autophagy, apoptosis, cell biology, molecular imaging, small animal experimentation is desirable but not required.

We are an international, diverse, inclusive group. Underrepresented minorities or women are encouraged to apply. Please send cover letter, curriculum vitae, and two to three reference contacts or letters to Howard Chen (Howard.Chen@tuftsmc.org), cc Debbie Slater (Debbie.Slater@tuftsmc.org).

To find out more about what we work on, check out: <https://go.tufts.edu/ChenLab>

