

Now Hiring: Senior Postdoctoral Scientist | Umapathi Lab @ Johns Hopkins School of Medicine

The **Umapathi Lab** at the **Johns Hopkins School of Medicine** is seeking a highly motivated **Senior Postdoctoral Scientist** for a fully funded **1-year position** to lead and complete innovative research in cardiac metabolism, molecular phenotyping, and heart failure therapeutics.

About Us

Our lab is dedicated to discovering the **molecular mechanisms that drive heart failure**, with a focus on the **Hexosamine Biosynthesis Pathway**, **O-GlcNAcylation**, and **cardiac energetics**. Using cutting-edge techniques—from transgenic mouse models to metabolomic and proteomic profiling—we investigate how post-translational protein modifications contribute to pathological cardiac remodeling, energetic shifts, and arrhythmias.

Key Research Areas:


- O-GlcNAcylation in cardiac stress, hypertrophy, and failure
- Cardiac energetic reprogramming and mitochondrial metabolism
- Novel heart failure diagnostics and proteomic biomarker discovery
- Precision medicine approaches in clinical cardiology
- Therapeutic strategies for ischemia-reperfusion injury and transplant preservation

Who We're Looking For:


We are seeking a senior-level postdoc with strong experience in one or more of the following:

- Cardiac physiology and metabolism
- Molecular biology, biochemistry, or proteomics
- iPSC derivation, differentiation and culture
- Cell/small animal models of cardiovascular disease
- Calcium imaging or mitochondrial function assays

Ideal candidates will have a strong background in wet lab research, publication records, excellent organizational and communication skills, and the ability to work independently and collaboratively in a dynamic research environment.

 **Location:** Baltimore, MD

 **Start Date:** ASAP, position funded for 1 year

 **Eligibility:** Since we will need to fill the position soon, we prefer someone currently in the US and cannot sponsor any visas.

 **Apply Now:** <mailto:mumapat1@jhmi.edu>

Join us in pushing the boundaries of cardiovascular science and making a difference in the fight against heart failure. [Learn more](#).

#PostdocOpportunity #CardiovascularResearch #HeartFailure #PrecisionMedicine #JohnsHopkins
#AcademicJobs #PostdocHiring