

Post-Doctoral Fellow University of Mississippi Medical Center

A Post-Doctoral Fellow is being sought to work on the molecular genetics of hypertensive kidney disease in the laboratory of Michael R Garrett, PhD, MBA at the University of Mississippi Medical Center. This position is funded by a NHLBI Institutional Training Grant entitled “Hypertension and Cardiorenal Diseases Research Training Program” through the Cardiovascular-Renal Research Center headed by Dr. Joey Granger (<https://umc.edu/Research/Centers-and-Institutes/Centers/Cardiovascular-Renal-Research-Center/Home-Page.html>).

The focus of the research project will involve the identification/characterization of novel genes and mechanisms causative to onset and progression of kidney disease using both *in vivo* and *in vitro* based methodologies. A key focus of the research project will involve the isolation and primary cell culture of several kidney cell types and various cell-lines. Molecular techniques will include next-generation sequencing (e.g., RNAseq, Targeted RNAseq, and single cell transcriptomics), cell-based gene-editing, and other standard molecular biology techniques. Animal work will include several physiological measurements including blood pressure and kidney function in both rat and mouse models.

Applicants are expected to be highly motivated with excellent communications skills, a strong molecular biology/genomics and/or cell biology background. Experience with animal models in mice or rats, particularly with fine tissue dissection and cell culture techniques are desirable. The successful candidate will join an outstanding research environment with active research programs in hypertension; vascular biology, proteomics, and the genomics of hypertension and kidney disease.

Interested applicants are encouraged to email a current curriculum vitae, along with the names of three professional references to:

Michael R. Garrett, PhD, MBA,FAHA
Professor
Director, Molecular and Genomics Core (www.umc.edu/genomicscore)
Department of Pharmacology and Toxicology
Department of Medicine (Nephrology) and Pediatrics (Genetics)
University of Mississippi Medical Center
2500 North State Street
Jackson, MS 39216
Email: mrgarrett@umc.edu