



Postdoctoral Research Fellowship in Diabetes / Kidney Disease / Extracellular Matrix at Center for Matrix Biology - Division of Nephrology - Vanderbilt University, Nashville TN

Job Description

An NIH-funded postdoctoral fellowship is available immediately in the laboratory of Dr. Roberto Vanacore, PhD to investigate the role of lysyl oxidases in normal renal function and kidney fibrosis utilizing *in vitro* and *in vivo* methodologies. Our goal is to better understand the molecular mechanisms contributing to renal fibrosis in chronic kidney disease. We use cutting edge approaches in proteomics/mass spectrometry in combination with biochemistry, molecular biology and animal models to investigate the structure-function relationship of these collagen-crosslinking enzymes on the biosynthesis, assembly and function of the renal extracellular matrix. Since identifying novel potential therapies for renal disease is an important goal of the laboratory, the candidate will also pursue translational research in collaboration with a pharmaceutical company by testing novel compounds designed to inhibit the development and progression of kidney fibrosis. The Vanacore Lab is housed in the Division of Nephrology and is part of the Vanderbilt Center for Kidney Disease and Center for Matrix Biology.

Candidate Skills

We are seeking a highly motivated recent PhD graduate who has experience in protein biochemistry and molecular and cell biology. The ideal candidate will be proficient in the design, cloning, purification and functional characterization of recombinant enzymes. A desire to deepen proficiency in protein biochemistry by learning mass spectrometry/proteomics will be a good fit as our Lab can provide excellent training opportunities in a great environment. Experience in small animal work is preferred, although not a requirement as the laboratory can provide training to murine models of renal disease. Ability to think and work independently as well as a creative and critical mindset are key features for a successful applicant. Excellent oral and written communication skills and the ability to work as a team member are essential. Participation in the writing of grants and manuscript is expected. Preference will be given to individuals pursuing an academic career who have a strong desire to drive projects to completion and publish as a lead author.

Requirements and Benefits

This is a full-time position that requires a PhD degree (Biochemistry, Molecular/Cell Biology, or related discipline). Salary is based on NIH pay scale starting from \$47,484. Vanderbilt also offers an excellent benefits package including a great retirement plan, health and dental insurance, etc. More information about postdoctoral positions, available resources and relocation to Nashville, TN can be found at the BRET office (<https://medschool.vanderbilt.edu/postdoc/>)

Please submit a cover letter describing previous professional experiences, a summary of your current work, future plans and expectations. When listing publications please include a brief summary of your role and contributions to the study. The letter, CV and contact information for at least 3 references should be sent to roberto.vanacore@vanderbilt.edu.