Post-doctoral Fellow - NAD Metabolism in Heart Disease

Posting Number: 000329

Position Type: Scientific

Classification: Ongoing

Status: Full-Time

Department: Cardiovascular Biology - Lee

Job Summary/Basic Function:

The Lee laboratory at the Cardiovascular Biology Research Program (CVB) of the Oklahoma Medical Research Foundation (OMRF) is seeking two Postdoctoral Research Fellows to lead research projects. Our NIH-funded research program (https://leelab.omrf.org/) studies mechanisms linking metabolism to pathogenesis of heart disease, with a focus on the emerging roles of NAD+ metabolism. NAD+ homeostasis is pivotal in connecting metabolism, cellular function/signaling and cardiac function. Candidates are expected to use mouse models of heart disease (e.g. diabetes, hypertension or aging), and genetic models and/or pharmacologic approaches that manipulate NAD+ homeostasis to study the roles of NAD+ metabolism in diabetic hearts, diastolic heart failure or arrhythmias. Essential Responsibilities: 1. Actively pursue research under the supervision of PI while developing skills for independent work 2. Organize, analyze, and summarize scientific literature 3. Formulate research questions, design and conduct experiments, and organize and analyze data 4. Communicate scientific data through manuscript writing and presentations 5. Prepare research proposals Candidates must be self-motivated, proactive and enthusiastic to their career development. Postdoctoral training program at OMRF (https://omrf.org/about-omrf/education-outreach/postdoctoral-programs), the Principal Investigator (PI) and the postdoctoral mentoring committee will be committed to training fellows for an independent research career. Candidates are expected to work independently and contribute intellectually to facilitate a stimulating environment within the research group and research programs at OMRF. OMRF is an independent, nonprofit biomedical research institute. OMRF has been repeatedly named as Oklahoma's top workplace and has been selected as one of the best research institutions for post-docs in the USA by The Scientist journal. The institute offers postdoctoral fellows an exceptional research and training environment with state-of-the-art facilities and outstanding core technology laboratories. Moreover, funds are available for candidates from the PI or OMRF Postdoc Awards to support their attendance at scientific meetings or workshops. OMRF is adjacent to the University of Oklahoma Health Sciences Center (OUHSC) campus in Oklahoma City. OMRF has been repeatedly named as Oklahoma's top workplace and has been selected as one of the best research institutions for post-docs in the USA by The Scientist journal. Oklahoma City metropolitan area offers affordable housing and low cost of living. The institute
offers postdoctoral fellows an exceptional research and training environment with state-of-the-art facilities and outstanding core technology laboratories. Moreover, funds are available for candidates from the PI or OMRF Postdoc Travel Awards to support their attendance at scientific meetings or workshops. OMRF’s excellence can only be fully realized by individuals who share our commitment to diversity, equity and inclusion. Successful candidates will demonstrate commitment to these values. OMRF is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to gender, sexual orientation, gender identity, race, color, national origin, age, religion, disability, veteran status or any other legally protected characteristic.

**Minimum Qualifications:**

Successful candidates should have a recent PhD, MD, or MD/PhD degree (within 0-3 years or expect to receive the degree within a year) in physiology, biochemistry or related biomedical disciplines. First-authored publication(s) from their graduate work is expected.

**Minimum Degree Required:**

Doctorate

**Work Hours:**

**Preferred Qualifications:**

Prior research experience in quantitative metabolomic, flux analysis and cardiac physiology will be a plus, but not a must. Candidates with expertise in developmental biology, mouse genetics, stem cells, or molecular biology are encouraged to apply.

**Physical Demands:**

Regularly required to stand, use manual dexterity, talk or hear; Frequently required to walk and reach with hands and arms; occasionally sit; frequently lift and/or move up to 50 pounds; vision abilities include close vision, color vision, depth perception and ability to adjust focus. Potential exposure to fumes, airborne particles, or rodent dander. May work with toxic, caustic chemicals, radioactive materials, liquid nitrogen, human tissue or blood. Potential risk of electrical shock. Occasional exposure to cold 4C, and/or extreme cold -80C from freezers. Noise level is usually moderate.

**To apply, visit https://apprtkr.com/2294459**

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