Post-doctoral Fellow - NAD Metabolism in Heart Disease

Posting Number: 000169

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 who will lead projects to investigate the roles of NAD+ metabolism in heart disease. NAD+ homeostasis is pivotal in connecting metabolism, cellular function/signaling and cardiac function via enzymes, metabolites and post-translational modifications (PTMs). Abnormal NAD+ metabolism is heavily linked to disease pathogenesis. The first projects focus on the roles of NAD+ biosynthetic and consumption pathways in the pathogenesis of heart disease. The second projects aim to determine the interactions between NAD+-dependent PTMs with cardiomyocyte and cardiac dysfunction. Candidates are expected to use mouse models of heart disease (e.g. diabetes, hypertension or aging), and genetic models and pharmacologic approaches that manipulate NAD+ homeostasis. Hypotheses will be tested by assessing changes in NAD+-dependent pathways in regulating cell signaling, mitochondrial, cardiomyocyte and cardiac functions in vitro and in vivo.

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 will be trained 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. 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.
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.

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://apptrkr.com/1795890

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