Postdoctoral Research Assistant

Job Summary:
The position serves to complement the principal investigators of a federal funded project to successfully conduct the proposed in vivo, ex vivo and cell experiments. The main goal of the project is to determine the effects of inflammatory pathways on the cardiovascular system and cardiomyocytes at a physiological and molecular signaling level.

As part of the postdoctoral training and the mentored professional growth, the successful candidate is expected to write post-doctoral grant proposals as principal investigator, to write manuscripts and to participate in writing review articles.

Required Qualifications:
This position requires the candidate to have high level experience working with mice, cell-based assays and common laboratory assays like protein and nucleic acid extraction, Western blotting, PCR, qPCR, microscopy and immunological assays like IF, IHC and ELISA. Knowledge of animal care and handling, animal anesthesia, daily monitoring of animals in an experimental study, performing behavioral assays (motor, cognition, and pain), delivery of experimental drugs, assist in preparing the animals for in vivo testing, maintaining mouse breeding colonies and genotyping, record keeping of surgery logs and animal treatment logs, record keeping of data. In addition, the position requires good care of laboratory equipment, space and supplies management, participating in the ordering of reagents and consumables, coordinate the use of the laboratory space and instrumentation, organized storage of the biological samples. Sample processing to include, but not limited to, plasma isolation from blood, tissue sample fixation and embedding in paraffin.

Preferred Qualifications:
Proven ability to work collaboratively and effectively with other team members in a diverse work environment and knowledge of the cardiovascular physiology, metabolic disorders. Use/performance of animal models of cardiovascular disease and small animal echocardiography are a PLUS. Animals models and surgical techniques to master include coronary artery ligation in mice, implantation of osmotic pumps, nephrectomy, telemetry probe implantation, small blood vessel cannulation, invasive measurement of hemodynamic parameters and preparation of primary cardiomyocyte cultures, vascular graft implantation. If such knowledge is lacking, applicant is expected to learn and successfully perform such techniques. Adequate training will be offered by the PIs and the applicant must show progress during the training. Proven experience in grant and/or manuscript writing.

To apply for this position: https://www.vcujobs.com/postings/102778

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