

## Postdoctoral Scientist Position Available – Neurodegeneration

### Employer

University of Kentucky, Sanders-Brown Center on Aging, Lexington, Kentucky, USA

### Principal Investigator

Linda Van Eldik, PhD

### Description

A postdoctoral scientist position is available immediately at the University of Kentucky, Lexington KY. We seek a highly motivated, creative, and collaborative individual to work on mechanistic and translational research projects focused on the detrimental inflammatory and neurodegenerative responses that contribute to pathophysiology in a mouse model of comorbid Vascular Contributions to Cognitive Impairment and Dementia (VCID) and Alzheimer's disease (AD). A component of this project will utilize a novel brain-penetrant small molecule as an anti-inflammatory strategy to combat inflammatory-related pathophysiology to determine optimal dosing and timing in the comorbid disease environment. Anticipated approaches to delineate comorbid pathophysiology response will include a multifaceted approach harnessing multiphoton vascular imaging in intact animals, flow cytometry and cell sorting for transcriptional profiling, as well as cognitive phenotyping.

The position is in the Sanders-Brown Center on Aging, an established research center in aging and dementia where independent basic and clinical scientists work in a collaborative environment. The Center on Aging also includes the NIH-funded Alzheimer's Disease Research Center that provides unique and outstanding resources to support innovative research (e.g. longitudinally followed and well-characterized clinical cohorts, neuroimaging, biomarkers, autopsy specimens). Our Center has recently completed the first tier in state-of-the-art upgrades in core equipment and facilities to enable access to multiphoton *in vivo* imaging, cell sorting, single-cell transcriptomics, high-speed confocal imaging, multiplex tissue spatial profiling, and mouse behavioral phenotyping, to name a few. Postdocs can also collaborate with a number of other centers at the university that facilitate neuroscience research, including the Spinal Cord and Brain Injury Research Center, the Magnetic Resonance Imaging and Spectroscopy Center, the Center for Clinical and Translational Science, and the Kentucky Neuroscience Institute.

The successful candidate will benefit from an experienced mentor, a stimulating and collaborative research environment, and an organized training plan to propel their future career goals. There are ample opportunities for scientific growth, career enhancement, and development into an independent investigator in academia, industry, or other career paths. Although the project is currently funded by NIH, an integral part of postdoctoral training is the process of preparing a research proposal and writing a fellowship application, so postdocs are encouraged to apply for external funding when possible. Postdocs will also be eligible for applying to our Center's T32 training program, which focuses on diseases of the aging brain. Moreover, postdocs from our lab have a consistent track record for obtaining NIH-funded F32 and K99/R00 awards, which provides recognition for both the fellow and the Center on Aging.

### Requirements

PhD or MD/PhD in an area relevant to pharmacology or neuroscience. Must have excellent interpersonal, organizational, verbal and written communication skills, a solid publication record, and appropriate experience. Preference will be given to individuals with experience in one of the following areas: inducible conditional knockout mouse models, mouse neuropathology and behavior, primary glia/neuron cell culture, gene expression profiling, pharmacological modulation of glia signaling pathways. Prior experience in AD, TBI, or related neurological disease research is also desirable.

### Contact

Applicants should send an email that includes a cover letter with a brief statement of research experience and career goals, a CV, and contact information for three references to Linda Van Eldik, [linda.vaneldik@uky.edu](mailto:linda.vaneldik@uky.edu).