

Associate Research Scientist

Columbia University is recruiting an Associate Research Scientist to join the Research Area of Molecular Imaging and Neuropathology within the Department of Psychiatry to study blood-brain barrier and inflammation in psychiatric disorders. Demonstrable experience, including publication, in neuropathological studies related to neuroinflammation and impairment of the blood brain barrier in psychiatric disorders as well as related mechanisms of action, is required. The applicant must have a Ph.D. in Biology, Neuroscience or a closely related field and at least 3 years of postdoctoral experience. This position will develop and perform protocols and will assist with interpretation of proteomics and next-generation sequencing data.

Requirements: The position requires an understanding of genetic, molecular, biochemical, and cell biological methods needed to carry out an independent research project, as well as the knowledge and ability to conduct independent scientific literature reviews regarding experimental methods, and the knowledge of the scientific principles needed to conduct a novel research project. Independence and excellent interpersonal skills are essential. There will be minimal day to day supervision of the employee. The research scientist will work as part of a team containing postdoctoral fellows, graduate students, and other researchers, including undergraduate students. In certain situations, the researcher will train these individuals in established protocols and in the protocols developed by the researcher.

Scientific Knowledge, Skills and Abilities

The researcher will be responsible for developing protocols to study neuroinflammation and neurovascular unit in postmortem human brain tissue using multiple research approaches.

Specific skills related to these efforts must include: immunohistochemistry, stereology, bright field, fluorescent and confocal microscopy, laser capture microdissection, isolation of microvessels from both fresh and frozen brain tissue, experience with fluorescent cell sorting of brain glial cells or nuclei, knowledge and experience with membrane protein studies. Previous experience with processing of postmortem human brain tissue and knowledge of human brain anatomy are required. Excellent verbal, presentation, and written communication skills are essential. The capability to work effectively in a team environment is required.

<https://academicjobs.columbia.edu/applicants/Central?quickFind=65900>