



Icahn School
of Medicine at
Mount
Sinai



*Neuropathology
Brain Bank
at Mount Sinai*

Postdoctoral Researcher in Molecular Neurodegeneration

Employer: Icahn School of Medicine at Mount Sinai, New York, New York

Principal Investigator: John F. Crary, MD-PhD

Application deadline: October 1st, 2022

Description: We seek a post-doctoral fellow wishing to leverage their training to address what is among the most pressing and urgent scientific challenges of our time: age-related neurodegeneration. The fellow will join our NIH-funded translational and collaborative team in the Alzheimer's disease research center and the Ronald M. Loeb Center for Alzheimer's disease that includes biochemists, molecular biologists, geneticists, computational neurobiologists, neurologists and clinical neuropathologists. Our approach leverages large collections of human tissues, which are being characterized using state-of-the-art multiscale ("-omics") approaches enhanced using deep learning, to discover novel mechanisms driving neurodegeneration. Our focus is the tau proteinopathies, including Alzheimer's disease, chronic traumatic encephalopathy, age-related tauopathy, and others. We use the tauopathies as a model to link these disparate clinical syndromes affecting cognition, motor neuron disease, movement disorder, and psychiatric illness. Candidate mechanisms are modeled in animal and cellular systems, including human induced pluripotent stem cell-derived neurons and brain organoids.

We prioritize training: interested fellows are actively mentored in strategies to win grant funding (e.g., F32, K99/R00, etc) and developing an independent program.

Requirements: The applicant should have a recent Ph.D. in a brain-related discipline, an M.D. with training in a brain-related specialty, or both. The successful candidate must be highly motivated and have familiarity with common neurohistological, genetic, molecular or cellular biology techniques (e.g., immunoblotting, cell culture, viral and plasmid vectors, PCR, RNA-seq, QPCR, tissue sectioning, immunohistochemistry, in situ hybridization and fluorescence microscopy).

Benefits: Fellows enjoy strong mentorship, generous subsidized housing, health insurance:
<https://icahn.mssm.edu/education/postdoc>

Websites: More information about the research community at Mount Sinai:
<https://icahn.mssm.edu/research/friedman>
<http://www.crarylab.org>

Contact: john.crary@mountsinai.org, margaret.krassner@mountsinai.org

About Mount Sinai: The Icahn School of Medicine at Mount Sinai, is the on the upper east side of the borough of Manhattan in New York City. The ISMMS received over \$4000 million in National Institutes of Health (NIH) funding awarded in 2021 making it 15th among U.S. medical schools and the Department of Neuroscience is ranked #2 in the nation. The ISMMS has 36 multidisciplinary research, educational, and clinical institutes and 33 academic departments, with an annual budget of \$2.7 billion. There are more than 6,369 full-time, part-time, and voluntary faculty. The ISMMS was named 4th among "World's Most Innovative Companies in Data Science" by Fast Company Magazine.