Postdoctoral Research Fellow – Neuroinflammation and Alcohol-Related Liver–Gut–Brain Axis

Location: Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA
Start Date: Immediate
Position Type: Full-time, Postdoctoral Research Fellow

Position Summary

At the research laboratory of **Prof. Gyongyi Szabo, MD, PhD**, we are seeking a highly motivated and talented Postdoctoral Research Fellow to join our multidisciplinary team investigating the mechanisms linking neuroinflammation and the alcohol-related effects on the liver–gut axis. The successful candidate will contribute to ongoing projects that explore the molecular pathways and specific cell populations mediating multi-organ communication, in the context of alcohol exposure and related pathologies in relevant neuroinflammation models (Aging, Alzheimer's disease).

This position offers a unique opportunity to work in a collaborative, cutting-edge research environment with access to advanced technologies and cross-disciplinary expertise in neuroscience and immunology. At the Szabo lab (https://research.bidmc.org/gyongyi-szabo), our translational research projects include in vitro experiments and cell culture systems, in vivo mouse models, patient samples, and Omics data set analyses.

Responsibilities

- Conduct independent and collaborative research
- Design and execute experiments in vitro and in vivo mouse models
- Analyze and interpret data; prepare manuscripts and presentations for publication and conferences.
- Mentor graduate and undergraduate trainees as appropriate.
- Collaborate closely with other investigators within and outside the lab.

Qualifications

- Ph.D. in Neuroscience, Immunology, Physiology, Biomedical Sciences, or a related field.
- Demonstrated experience, with minimum one-year post-doctoral experience, in neuroinflammation, neuroimmunology, or liver-gut–brain axis interactions.
- Background in alcohol-related disease models of mouse, behavior assays, is strongly preferred
- Strong record of peer-reviewed publications.
- Excellent communication, organizational, and teamwork skills.

Preferred Skills

- Experience with alcohol use-related mouse models of neuroinflammation (Aging, Alzheimer's disease).

- Expertise in flow cytometry, confocal microscopy, neuron and glia cells, iPSC cell-culture and differentiation systems, molecular assays, CRISPR, RNA-seq analysis, Extracellular vesicles, and ability to conduct bioinformatics analyses with the help of statisticians.

Compensation and Benefits

Competitive salary and benefits will be provided commensurate with NIH guidelines and institutional policies.

Application Instructions

Interested candidates should submit the following materials as a single PDF to szabolab@bidmc.harvard.edu:

- Cover letter describing research interests and relevant experience
- Curriculum vitae
- Contact information for three professional references

Review of applications will begin immediately and continue until the position is filled.

Equal Opportunity Statement

BIDMC is an Equal Opportunity Employer and encourages applications from individuals of diverse backgrounds and experiences.