

Postdoctoral Researcher: Kalish Lab at Boston Children's Hospital

Research Focus: Developmental Neurobiology and Neuroimmunology

In the Kalish Lab, our mission is to use cutting-edge research techniques to understand the mechanisms of fetal and neonatal brain injury, as well as the early life origins of neurodevelopmental disorders. Our goal is to build a translational research platform that can take discoveries from the bedside to the bench and back. We are recruiting a Post-Doctoral Research Fellow to expand our work on several potential projects: (1) the role of cytokines and chemokines in early neurodevelopment; (2) mechanisms by which maternal gut-immune axis shapes fetal neurodevelopment; (3) neuro-immune trajectory after early life brain injury. The research will use animal models, human cell culture, advanced spatial biology, mouse behavior, and brain circuit mapping approaches. There are opportunities to leverage data from tractable, human-relevant large animal models of neonatal brain injury.

<https://research.childrenshospital.org/research-units/kalish-lab-research>

Responsibilities:

- Develop and apply neuroimmunology approaches to map and manipulate the immune response to brain injury and other early life perturbations.
- Lead animal model-based experiments to manipulate the immune system in the context of fetal and neonatal brain injury.
- Employ single cell and spatial biology tools
- Collaborate and mentor members of the multi-disciplinary team
- Maintain accurate lab records and documentation
- Contribute to publications and grant proposals.
- Stay current with scientific advances in the fields of neuroimmunology, and apply emerging techniques and insights to their own research

Qualifications and Experience:

- MD, PhD, or MD/PhD
- Experience in developmental neurobiology. Immunology experience strongly preferred
- Expert in multi-color flow cytometry and/or single cell biology
- Experience in bioinformatics, including data analysis in R or Python
- Excellent communication and presentation skills
- Evidence of consistent scientific innovation. Proven track record of publications in peer reviewed journals
- Able to work independently as well as in a collaborative team environment

- Excellent organizational and prioritization skills. Strong attention to detail
- Able to collect and analyze experimental data, prepare research publications, and communicate results

To Apply: Email a cover letter and CV to Dr. Brian Kalish @ Brian.Kalish@childrens.harvard.edu

About Boston Children's Hospital and Harvard Medical School:

Boston Children's Hospital is a global leader in pediatric healthcare. Affiliated with Harvard Medical School, we provide an unparalleled environment for scientific advancement, fostering collaboration and innovation in pursuit of improving children's health worldwide.

If you are interested, please send along your CV and a short description of your past and future research interests.

Pay Transparency

This is an exempt role.

Salary is determined by your PGY level and ranges from \$70,000 - \$77,267. The posted pay range is Boston Children's reasonable and good-faith expectation for this pay at the time of posting. Pay offer provided depends on skills, experience, education, certifications, and a variety of other job-related factors. BCH offers a comprehensive benefits package that includes flexible schedules, medical/vision/dental coverage, child-care and student-loan subsidies, generous paid time off, a 403(b) retirement plan, commuter and other employee discounts. Boston Children's Hospital requires influenza vaccination for all employees, unless eligible for a medical or religious exemption. Boston Children's Hospital is an Equal Opportunity/Affirmative Action Employer; all qualified applicants will receive consideration without regard to race, color, religion, national origin, sex, sexual orientation, gender identity, protected veteran status, disability, or other protected status.