Available Position: Post-doctoral Fellow
The Butovsky Laboratory – Oleg Butovsky, Ph.D. (PI)
Ann Romney Center for Neurologic Diseases, Brigham and Women's Hospital
Harvard Medical School

Dr. Butovsky is seeking a highly-motivated post-doctoral fellow to join his team, whose major scientific interest is to understand the biology of resident microglia and peripheral innate immunity in homeostasis and neurodegenerative conditions. Dr. Butovsky and his lab are internationally recognized for investigations that have led to the identification of novel potential therapy targets for ALS and new roles of APOE in microglia regulation in neurodegenerative diseases including Alzheimer's disease (*Immunity* and *Nature,* 2017). The lab is actively involved in multiple international and national collaborative efforts including those local to Brigham and Women's Hospital, Harvard, and the Broad Institute of MIT and with clinical scientists to translate basic observations and validate their application in human disease. The laboratory is funded by multiple NIH grants and several awards from foundations such as the Cure Alzheimer's Fund and the Amyotrophic Lateral Sclerosis Association; research support sustains studies related to identification of therapeutic targets and biomarkers of central and peripheral innate immunity. The ultimate goal of the laboratory is to find microglia- and monocyte-based immunomodulatory approaches to treat neurodegenerative diseases.

The group specializes in the generation of novel tools and methods to study microglial biology in health and disease including: 1) identification of a unique molecular microglia signature in health and disease; 2) generation of microglia and monocyte specific mAbs; 3) development of a new technique to culture adult mouse and human microglia *in vitro;* 4) generation of microglia specific-Cre transgenic mice to study the role and function of microglia biology; 5) identification of novel microglial surface molecules in health and neurodegenerative disease for developing PET-based biomarkers; and 6) identification of the new role of APOE/miR-155 signaling in regulation of microglia phenotype and function in neurodegeneration that can serve as drug targets for therapy in ALS and AD.

Prioritized candidates should demonstrate excellent scientific productivity, evidenced by high-quality publications, and be highly-motivated to conduct independent research. Candidates should have a strong background in molecular biology techniques and the ability to conduct research using animal models of disease as well as human samples. He/she should also be competent in FACS and single-cell techniques. Additionally, candidates should display good communication and inter-personal skills. M.D., Ph.D., or equivalent is required.

EEO Statement: Brigham and Women's Hospital is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, creed, sex, sexual orientation, gender identity, national origin, ancestry, age, veteran status, disability unrelated to job requirements, genetic information, military service, or other protected status.
Brigham and Women's Hospital I CARE Standards: The I CARE Standards guide me in my interactions with patients, family members, visitors, colleagues, and neighbors in my workplace and surrounding community to optimize the Brigham experience and help fulfill my role in our mission of providing seamless, high quality patient and family centered care.

C. I will Communicate my commitment to high quality performance
A. I will Appear and act as a professional
R. I will Respect all individuals
E. I will Extend myself

To apply, please email your CV, cover letter, three letters of reference, and contact information to obutovsky@rics.bwh.harvard.edu and copy zdale@bwh.harvard.edu (Zoë Dale, administrative assistant).