Respiratory Neurobiology Postdoctoral Fellowship at Baylor College of Medicine

An immediate opening for an NIH post-doctoral fellowship (R01HL130249) to study brainstem respiratory circuits is available in the Ray lab at Baylor College of Medicine in Houston, Texas. The current focus in the laboratory is functionally mapping the organization of the central noradrenergic system in regulating cardio-respiratory function and its role in pathophysiology ranging from Sudden Infant Death Syndrome and Rett Syndrome to Sudden Unexpected Death in Epilepsy.

Our laboratory takes a multidisciplinary approach using a variety of genetic, molecular, and viral techniques to target highly specific brainstem cell types for functional, molecular and anatomical study in physiology, behavior, and disease.

The candidate should have a doctoral degree, strong research background, and initiative to lead projects. The ideal candidate would have experience in respiratory physiology, genetic mouse models, histology and microscopy, and statistical knowledge sufficient for handling large datasets. **However, highly motivated applicants with a successful and productive research track-record will be trained as needed for this project.**

Additionally, our laboratory is active in the development of new tools for improved access and study of neural circuits and thus offers several training opportunities in mouse genetic model generation (including CRISPR/Cas9 techniques) and development of novel viral vectors, as well as a variety of animal physiology and behavioral assays.

Baylor College of Medicine offers an outstanding research environment at the Texas Medical Center with more than 50 non-profit institutions that offers one of the highest densities of clinical, translational, and basic science research facilities in the world. BCM and the Ray lab are equal opportunity employers committed to building a culturally diverse intellectual community and encourage applications from women and minorities.

Please respond with a cover letter including a description of work experience, C.V., and contact information for two references to:

Russell Ray, Ph.D.
Email: russell.ray@bcm.edu.
Ray Lab Website: http://www.molecularneurobiology.org
BCM Website: https://www.bcm.edu/russell-ray-29268