

Postdoctoral fellowship @ Johns Hopkins University Center for Hearing and Balance

The Glowatzki and Lauer labs have open positions for postdoctoral fellows to investigate the mechanisms of afferent synaptic transmission in the mammalian cochlea and the role of the olivocochlear efferent system on auditory nerve fiber activity. Secondly, effects of abnormal acoustic experience on afferent and efferent activity are investigated, to gain insights into possible approaches to prevent hearing loss. Projects are ongoing in the areas of environmental sound experience and aging.

The Glowatzki and Lauer labs collaborate closely to implement an array of techniques to investigate peripheral and central components of the olivocochlear circuit, including electrophysiology in mouse models (evoked potentials, cellular physiology/patch clamp, optogenetic stimulation, calcium imaging), anatomy (immunohistochemistry, confocal and electron microscopy), and behavior (acoustic startle, operant conditioning, noise avoidance, etc.). We also integrate optogenetic and chemogenetic manipulations into functional studies of the olivocochlear system. The ideal candidates will have experience in one or more of these techniques and a working knowledge of the auditory system.

In addition to experimental techniques, postdocs will receive training in dissemination of research, grant writing, research integrity, managing collaborations, and other aspects relevant to professional development. Postdoctoral fellows receive a stipend and benefits consistent with current NIH guidelines and university policies. Applicants should have a Ph.D. or equivalent degree in neuroscience, biology, biopsychology, or related field. Initial appointment will be for one year with possible extension based on performance and availability of funding. Postdocs are part of our large and highly collaborative Center for Hearing and Balance, comprised of members from Otolaryngology-HNS, Neuroscience, Biomedical Engineering, and Psychological and Brain Science departments.

Interested candidates should submit a CV and cover letter to Amanda Lauer alauer2@jhmi.edu and Elisabeth Glowatzki eglowat1@jhmi.edu. For more information about the labs, the center, and postdoctoral affairs at Johns Hopkins, please visit:

www.lauerlab.com

<https://glowatzkilab.com/>

<https://neuroscience.jhu.edu/research/faculty/32>

<http://jhu-chb.org/>