POSTDOCTORAL SCHOLAR in Mechanotransduction

The Grillet Lab is recruiting a post-doctoral fellow to investigate auditory mechanotransduction in the sensory hair cells of the inner ear. The detection of sound by the hair cells occurs in the hair bundle, a mechanosensitive structure made of actin-cilia at the apical surface of the cell.

The Grillet lab has expertise in molecular and cellular aspects of the hair bundle function (Grillet et al., Neuron, 2009; Wu & Grillet et al., Nature Neuroscience, 2017). The lab utilizes fluorescence and electronic microscopy to localize at high-resolution the proteins of the hair bundle. We also use injectoporation and viral transfection methods to challenge and rescue phenotypes in the hair cells (Xiong et al., Nature Protocol 2012). We look for protein interactors using biochemistry and yeast-2H methods, and finally, we generate mutant mice with CRISPR/Cas9 gene editing or homologous recombination. Lab website: (http://grilletlab.stanford.edu/).

We are looking for a candidate with interest in hair cell mechanotransduction. The candidate will use diverse techniques to characterize the phenotypes of mutant mice with suspected hair bundle defects. We are seeking recent graduates with a Ph.D. in Neuroscience, Molecular and Cellular Biology, Biochemistry, Developmental Biology, Biophysics, Electrophysiology, and other relevant field.

The Stanford Otolaryngology department is multidisciplinary with labs experts in other aspects of the auditory biology such as electrophysiology (Dr. Ricci) or regeneration (Dr. Cheng, Dr. Heller).

We are expecting high motivation and ability to work independently as well as part of the team.

To apply, please include a CV and a cover letter describing your previous work and career goals, putative starting date and the contact information for three references to ngrillet@stanford.edu.