Post-doctoral Scientist

Seattle Children’s Research Institute

The Baertsch Lab at the Seattle Children’s Research Institute is hiring a motivated post-doctoral scientist to join an expanding research program focused on understanding the cellular and neural network based mechanisms of respiratory control and rhythm generation. Breathing is controlled by multiple brain regions and neuronal subtypes with distinct functional roles. We utilize a combination of electrophysiological, pharmacological, optogenetic, and behavioral approaches in transgenic mice to reveal these distinct functional roles as well as understand how these neurons form complex networks with emergent properties important for the regulation of breathing. Using this multi-level approach, we aim to unravel mechanisms that underlie the highly dynamic, yet robust, nature of breathing under normal conditions, and how these mechanisms can fail or adapt when challenged with e.g. chronic substance abuse, neurodegenerative disease, dysautonomia, and sleep apnea.

The Baertsch laboratory is housed in the Seattle Children’s Research Institute Center for Integrative Brain Research, a highly collaborative environment for neuroscience research in a state-of-the-art facility. The most important aspect of this position is curiosity-driven science. The successful applicant will be expected to design, execute, and analyze experiments related to ongoing projects. Experience with electrophysiological recording, transgenic mouse strategies, and/or computational modeling is preferred, but not required. Initiative to learn new methods and to perform work efficiently and carefully are essential.

Responsibilities: Design, perform, and analyze experiments to study respiratory control. Present data at group meetings and conferences. Contribute to writing of publications, create figures for papers and grants. Assist with management of mouse colony.

Apply Here: https://careers-seattlechildrens.icims.com/jobs/36890/fellow---phd%2c-research/job?mode=view&mobile=false&width=743&height=500&bga=true&needsRedirect=false&jan1offset=-480&jun1offset=-420