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Research Scientist in Cellular Electrophysiology

Research Scientist Position in Cellular Electrophysiology is immediately available in the Bursac lab (<http://bursaclab.pratt.duke.edu/>). We are looking for electrophysiologists with significant experience in whole-cell and cell-attached patch clamp recordings and sharp electrode recordings from single cells and intact tissue preparations. The project aims to develop novel gene-based therapies for cardiac arrhythmias and heart failure and will involve: performing patch clamp recordings from mutated ion channels expressed in a heterologous system (HEK293 cells), viral genetic manipulations and electrophysiological recordings in primary and stem cell-derived cardiomyocytes, ion channel and action potential recordings from adult rat and mouse cardiomyocytes dissociated by Langendorff perfusion, and action potential recordings from intact heart tissue preparations. Candidates for this position are expected to be proficient in preparing results for publications, grant applications, and conference presentations.

Qualifications include PhD or post-PhD experience in single cell (patch clamp, sharp electrode) and tissue/organ electrophysiology. The ideal candidate will be highly self-motivated and possess strong training in cellular and tissue electrophysiology, as well as have experience with molecular biology and animal handling. Experience with the use of optical methods to record membrane voltage or calcium activity in cells and tissues is a plus. The candidates are expected to work well as a part of the team, engage in existing and new collaborations, and assist with training of graduate students, as needed. The research environment of the Bursac group is highly interdisciplinary and provides ample opportunities for scientific growth and pursuit of a variety of careers. Duke University is an equal opportunity employer. Interested candidates should email their resume and names of three reference writers to Dr. Nenad Bursac (nbursac@duke.edu).