



**Postdoctoral Scientist  
Molecular Physiology of Cardiac Pacemaking  
University of Colorado, Anschutz Medical Campus  
Department of Physiology & Biophysics and  
Department of Medicine, Division of Cardiology**

The Proenza lab in the Department of Physiology and Biophysics and the Department of Medicine, Division of Cardiology at the University of Colorado Anschutz Medical campus seeks creative, independent and motivated postdoctoral scientists for NIH-funded projects to study cardiac pacemaking and HCN channel biophysics.

Exciting high-impact studies await first authors! Projects in the lab include understanding the responses of the sinoatrial node to physiological challenges such as aging, disease and exercise training, identification of novel HCN4 channel regulators, and delineation of signaling microdomains in sinoatrial myocytes. Techniques include patch clamp electrophysiology to study isolated sinoatrial node myocytes and heterologously-expressed ion channels, biochemistry and proteomics to discover and characterize novel HCN channel interaction partners, and dynamic clamp and computational approaches to evaluate contributions of different ionic currents to pacemaking.

**Job responsibilities and expectations:**

- Contribute to experimental design
- Lead and organize data acquisition and analysis
- Troubleshoot protocols and equipment and develop new techniques as required
- Prepare figures and write manuscripts for publication in top journals
- Apply for postdoctoral fellowships
- Present work at national and international meetings
- Contribute to collaborative projects in the lab

**Qualifications**

- PhD in physiology, biophysics, or related field.
- Demonstrated expertise with first author publications in at least one of the following areas: patch clamp electrophysiology, biochemistry and proteomics, FRET, Ca<sup>2+</sup> imaging.
- Familiarity with principles of cardiac cellular electrophysiology strongly preferred.
- Self-motivated, creative problem solver with strong work ethic and highest ethical standards.
- Ability to work both independently and as a member of a collaborative team
- Excellent oral and written communication skills (fluent in written and spoken English)
- Willing and able to work with mice
- Preference given to applicants who are eligible for training grants and postdoctoral fellowships.

**To apply**

Please send by email to Dr. Catherine Proenza ([catherine.proenza@ucdenver.edu](mailto:catherine.proenza@ucdenver.edu))

- A CV
- A cover letter describing your aptness for the position, research accomplishments and career goals.
- Contact information for at least three references

Positions are open until filled. Preferred start date fall, 2017 (negotiable). Salary according to NIH postdoctoral pay scale.

*The University of Colorado is an equal opportunity employer.*