

## Postdoctoral Position in Experimental Cardiac Electrophysiology Research

The laboratory of Drs. José Jalife and Omer Berenfeld at the Center for Arrhythmia Research of the University of Michigan has launched an international search for a highly qualified new scientist to work as a Postdoctoral Research Fellow. The successful candidate will conduct research and development work in cardiac electrophysiology, mechanisms of impulse propagation as well as electrical and optical mapping techniques with the general aim of advancing understanding and therapy of arrhythmias in patients. The position is available as of November 1, 2016.

The Jalife/Berenfeld lab enjoys a solid reputation as a productive research center focusing on bringing modern biophysical, mathematical and engineering concepts to increase the understanding of the mechanisms of life-threatening cardiac arrhythmias, from the molecule to the bedside (Please visit our website at: [http://www.med.umich.edu/arrhythmia\\_research](http://www.med.umich.edu/arrhythmia_research)). The work we have accomplished has led to major advances toward elucidating the molecular and cellular bases of the initiation and propagation of electrical impulses in the heart and the fundamental mechanisms of complex life-threatening arrhythmias and sudden cardiac death. We use large and small animal models as well as genomic, molecular, patch-clamping, optical mapping and computational techniques in the study of cardiac excitability and fibrillation. We have recently established a clinically relevant large animal model to specifically investigate mechanisms and therapies of atrial fibrillation, which is the most common sustained arrhythmia.

Candidates must have completed a PhD or MD in areas of biology, physiology, electrophysiology or biomedical engineering. Preference will be given to applicants who are proficient in experimental electrophysiology and computational techniques and have experience in fluorescence and electrical mapping techniques, besides being familiar with device implantations, spectral analysis and optics. Applicants must have good command of the English language, both spoken and written, and be willing to work with enthusiasm in a team of high-level scientists in an outstanding research environment. A competitive salary and benefits according to NIH guidelines and commensurate with the postdoctoral experience of the candidate will be offered.

Duration: two years, with the possibility of renewal for a third year

Interested applicants should submit their CV accompanied by a letter of intent describing the applicant's future research and career plans. In addition, three letters of recommendation should be submitted separately by researchers/professors who are familiar with the applicant's scientific experience, technical skills, level of integrity and interpersonal abilities. All materials should be emailed to Ms. Martha Fortune at the Center for Arrhythmia Research ([mfortune@med.umich.edu](mailto:mfortune@med.umich.edu)), or mailed to:

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