Special Issue

Regulation and Function of Cardiac Ion Channels

Message from the Guest Editor

Precise ion channel function and regulation are necessary for normal cardiac function. Cardiac channel expression, localization, and regulation are fine-tuned to modify cardiomyocyte electrical properties to the required needs. Channel dysregulation in response to disease, inherited mutations, drugs, and hormonal imbalances can cause ECG changes leading to cardiac arrhythmias and sudden death. This Special Issue will focus on novel molecular mechanisms of cardiac ion channel regulation, and will specifically deal with pathological cardiac channel dysregulation and its consequences for cardiac rhythm and arrhythmia susceptibility. Manuscripts dealing with dysregulation due to common and rare genetic variants of ion channels, novel regulatory subunits, and novel mechanims that disrupt channel trafficking, expression, or transcription will be of interest. We will also focus on non-traditional animal, cell, and computational models and new methods for investigating cardiac ion channel dysregulation.

Guest Editor

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Deadline for manuscript submissions

closed (15 July 2021)



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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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