Special Issue

Cardiac and Neuromuscular Channelopathies: Cellular and Molecular Mechanisms

Message from the Guest Editor

Ion channels control the electrical properties of all living cells. The dysfunction of ion channels, causing both gain and loss of function, is a major cause of inheritable and acquired diseases. Mutations in voltage-gated sodium, chloride, potassium, and calcium channels, in addition to channel-associated proteins, are linked to a large number of inherited diseases that affect cardiac and skeletal muscle excitability as well as function. Despite the heterogenous nature of this group of rare genetic conditions, molecular mechanisms of disease are broadly conserved. With the uncovering of an increasing number of genetic variants in genes that affect cardiac and skeletal muscle excitability, it is particularly important to understand that weather-specific variants are either benign or causative of disease. Thus, in this Special Issue, priority will be given to original manuscripts and reviews dealing with comprehensive studies on genetic variants in addition to investigations related to understudied and novel genes associated with disease, as well as studies that provide insight into novel mechanisms of disease.

Guest Editor

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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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