

Special Issue

Study on Cardiac Ion Channels

Message from the Guest Editors

Ion channels are transmembrane proteins that allow ions to pass through cellular membranes. They regulate multiple processes and are highly regulated in turn. In cardiomyocytes, excitation–contraction coupling, how electrical activity generated by voltage–dependent ionic channels triggers cell contractions, is a concept that is well understood. However, how ionic channels are able to regulate cardiac functions ranging from heart development to pathology in response to physiological or pathological stimuli requires further investigation. The understanding of how ionic channels regulate or are regulated during these processes is beneficial to discovering novel therapeutic targets. The current Special Issue aims to highlight the recent advances in understanding the molecular mechanisms involved in the regulation of physiopathological processes by ionic channels and vice versa.

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