Special Issue

Actions of Small Molecules on Varying Type of Membrane Ion Channels

Message from the Guest Editor

Ion channels, viewed as enigmatic proteins, are recognized to select ions to pass through the cell membrane in a wide variety of cells. Changes in these various types of ion channels can act to perturb the functional activities of Na+, Ca2+, and K+ channels, and therefore play essential roles in numerous fundamental physiological functions, such as controlling membrane excitability, generating and shaping action potentials, regulating cell volume, and regulating epithelial secretion. Recent progress in the biophysical or pharmacological characterization of ion channels potentially modified by different small molecules (i.e., ion channel modulators) has demonstrated the fundamental importance of ion channels in physiology, pathophysiology, pharmacology, and various pathologic disorders. However, the potential of these small-molecule modulators as targets for novel and efficacious therapeutics is still incompletely understood. It is hoped that this Special Issue in Biomedicines will provide the current understanding of several intriguing small molecules which can effectively perturb the amplitude, gating kinetics, and voltage-dependent hysteresis of membrane ionic currents.

Guest Editor

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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