

Special Issue

Channelopathies: Drug Interactions and Clinical Advances

Message from the Guest Editor

Ion channels are fundamental to cellular function, and mutations in channel genes—known as channelopathies—underlie a wide range of neurological, cardiac, and muscular disorders. Understanding how drugs interact with these channels, both in their native and mutated forms, offers valuable insights into disease mechanisms and presents exciting opportunities for therapeutic advancement. This Special Issue of *Biomedicines* aims to bring together original research and comprehensive reviews that explore the molecular, pharmacological, and clinical dimensions of channelopathies. We are particularly interested in studies demonstrating how drugs modulate ion channel behavior in the context of pathogenic mutations and how such findings may translate into better diagnostics, targeted therapies, or personalized medicine approaches. We invite scientists and clinicians in neurophysiology, cardiology, pharmacology, and related fields to contribute to this Special Issue as it is a great opportunity to increase research visibility within a dynamic interdisciplinary community.

Guest Editor

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About the Journal

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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