

Special Issue

Membrane Channels in Physiology and Pathology

Message from the Guest Editors

Ion channels are integral membrane proteins that play essential physiological roles. These specialized membrane proteins are responsible for the ions fluxes across the plasma membrane of all mammalian cells. Channels form functional oligomeric complexes by association with ancillary proteins, contributing to the cellular homeostasis and maintenance of health. Numerous cellular events control and are controlled by channel gating and kinetics. Membrane channels, with different ion selectivity, regulate membrane potential and excitability, shape the action potential, and elicit muscle contraction, among other cellular processes. Due to their contribution to the pathophysiology of various human diseases, these proteins are targets of many drugs, from antiepileptics to analgesics. This Special Issue will assemble a series of reviews and research articles updating the state of knowledge on membrane channels in health and diseases.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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