

Special Issue

Membrane Transport in Health and Disease: From Basic Science to Therapeutic Applications

Message from the Guest Editor

Membrane transport proteins play crucial roles in cell physiology, metabolism, and signaling by facilitating translocation of solutes, including nutrients, metabolites, and inorganic ions, across biological membranes. Membrane transport proteins are essential for cell functions and metabolism, by maintaining homeostasis and assuring cell survival in response to both environmental and intracellular stress stimuli. The aim of this Special Issue is to provide an extensive coverage of recent advances in the field of membrane transport focusing on the emerging bridge between molecular structure and function of membrane transport proteins and their role in cell biology and physiology at tissue- or a whole-organism level. A deeper investigation of the functional role of membrane transport proteins and of the structure–function relationships may allow the understanding of their role in contributing to pathologies and the development of improved pharmacological strategies. This Special Issue welcomes both original research articles and comprehensive reviews. Short communications will also be considered.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
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