Special Issue

Synergy of Proteins, Peptides and Lipid Membranes in Vital Cellular Processes

Message from the Guest Editors

In membrane biophysics, we commonly focus on the activity of specific proteins responsible for various functions in cells. However, the lipid component of cellular membranes sometimes plays a decisive role in processes, which are connected with membrane rearrangements during fusion, fission, tubulation, and pore formation in biological membranes. Specific features of membrane lipids may stimulate protein clustering and signal transduction. Thus, membrane biophysics concerns the synergy of proteins, peptides, and the lipid matrix, which together orchestrate vital cellular processes. The aim of this Special issue is to highlight the role of interactions between different components of cellular membranes in regulating cell metabolism. We plan to specifically focus on the role of membrane elastic properties in protein organization and signal transductions, as well as to give new insights into sophisticated and sometimes surprising methods of protein-lipid interactions in membrane biophysics.

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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 accessjournal 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

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