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Membrane Structure and Dynamics

Guest Editor:

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Message from the Guest Editor

Membranes are the most important biological interface and their interaction with molecules plays a key role in the pathology of many diseases. The determination of molecular structure and dynamics of biological membranes is one of the greatest challenges in modern biophysics. Biological materials, in particular under physiological conditions, are inherently disordered and highly dynamic in nature. Fluctuations on different length scales may lead to the formation of static or dynamic patches, so-called rafts, resulting in a heterogeneous state of matter. Modern experimental and theoretical techniques can access structural and dynamical properties down to the nanometer scale and resolve dynamics of lipids. membrane-active molecules, and proteins and peptides with unprecedented resolution.

This themed issue aims to collect key contributions to the field and give an overview about experiments and computer modeling, addressing fundamental aspects and applied research in model and native, biological membranes.









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Editor-in-Chief

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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 nonbiological 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.

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