

Special Issue

Composition and Biophysical Properties of Lipid Membranes

Message from the Guest Editor

Membranes are key components of cells, comprising mainly lipids, proteins, and carbohydrates, which are involved in signaling and cell recognition. The membrane composition modulates its properties, as fluidity, phase behavior, asymmetry, permeability, and elasticity, and undergoes changes in (patho)physiological conditions, which impact membrane-driven processes. Therefore, insights on membrane's biophysical features are crucial to improve the knowledge on molecular membrane mechanisms. Therefore, mimetic membrane model systems have been widely used for the biophysical characterization of membranes through isothermal titration calorimetry, surface plasmon resonance, Langmuir isotherms, dynamic light scattering, circular dichroism spectroscopy, atomic force microscopy, UV-vis and fluorescence spectroscopy, confocal microscopy, small-angle X-ray scattering, and computational biophysical methods, among others. This Special Issue aims to provide a platform for different biophysical approaches regarding the composition and biophysical properties of lipid membranes. I am pleased to invite you to submit manuscripts, including original research articles or reviews.

Guest Editor

Dr. Mariana Ferreira

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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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