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Membrane Domains Organization and Interactions

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Deadline for manuscript
submissions:

closed (10 May 2022)

Message from the Guest Editors

Dear Colleagues,

Our knowledge of biological membranes has substantially changed over the past several years, from the fluid mosaic idea to the current concept of lipids and proteins separating into microdomains that differ in their protein and lipid compositions. The role of lipids and membrane proteins is not limited to constituting the cell barrier. They are also involved in a wide range of processes including intracellular and extracellular transport, communication, cell migration, cell shape formation, and participation in the mechanisms of signal transduction that regulate cell function and homeostasis. Investigation of the world of membrane domains and the function of specific protein–lipid complexes has become possible thanks to the novel advanced tools used to study functions of diverse lipid classes in membranes with structural analysis and simulations at the atomic resolution. This Special Issue will highlight the importance of the membrane domains in protein–lipid interactions and the implications of this role on our understanding of the overall organization and functioning of cell membranes and their relation to myriad cellular outcomes.



mdpi.com/si/84184

Special Issue



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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 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.

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