Special Issue

Plasma Membrane Lipid Domains As a Favorable Environment for Protein:Lipid Interactions?

Message from the Guest Editor

The surface of living cells contributes to the regulation of solute influx and efflux, signal transduction, lipid metabolism and trafficking. To fulfill these roles, the cell surface must be tough and plastic. This is why cell membranes exhibit such a large variety of lipids and why some lipids cluster into membrane domains [...]. One challenge is to determine how membrane biophysical properties and extrinsic factors could contribute to protein confinement in domains. Another, is to evaluate whether proteins localize in the resting state into domains that are needed for their primary activation or whether proteins are able to recruit specific lipids in their surrounding environment, forming domains with appropriate biophysical properties. In this Special Issue, thanks to the integration of theoretical work on model membranes and living cells, we expect to shed new light on various aspects of protein activity through their confinement in, or exclusion from, plasma membrane domains.

Guest Editor

Dr. Donatienne Tyteca
CELL Unit, de Duve Institute & Université catholique de Louvain, 1200 Brussels, Belgium

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

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