

Special Issue

Membrane Clusters in Health and Neurodegenerative Disease

Message from the Guest Editors

Membrane clusters (membrane rafts) are found in the plasma membrane and internal membranes such as the Golgi, endosomes, lysosomes, peroxisomes, and mitochondria, and can exchange components within or between adjacent membranes. Composed of both lipids and proteins, membrane clusters play crucial roles in mediating signaling events during cell–cell interactions and at adjacent subcellular organelle membranes.

We invite scientists to contribute papers addressing three key aspects of membrane clusters:

1. **Analysis:** We encourage studies exploring membrane clusters in intact cells or cell-free systems. Techniques such as electron microscopy, super-resolution microscopy, click chemistry for fluorescent labeling, and mass spectrometry-based lipidomic and proteomic analyses are particularly welcome.
2. **Biological Function:** We seek insights into the roles of membrane clusters in neurons, astrocytes, microglia, pericytes, and vascular endothelial cells in the brain under physiological conditions and in neurodegenerative diseases.
3. **Therapeutic Targeting:** Articles discussing strategies to target membrane clusters for treating neurodegenerative diseases are highly encouraged.

Guest Editors

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About the Journal

Message from the Editorial Board

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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