Special Issue

Advances in Cellular Biophysics: Transport and Mechanics

Message from the Guest Editors

Here, we would like to document the proceedings of the Cellular Biophysics (Section III) International Workshop of the German Biophysical Society (DGfB). Moreover, the interdisciplinary character of the workshop features results from many distinct branches of research, such as physics, biochemistry, physiology, medicine, molecular biology, pharmacology, and biology. Clustering these branches of research grants a unique opportunity to exchange knowledge and scientific progress, as well as state-of-the-art techniques. Substantial insights into the rapidly developing topic of cellular biophysics shall be presented, converging on the topic of membrane transport. Membrane transport impacts almost all pathologies known today, from neuronal, immunological, cardiovascular, metabolic disorders to even cancer. Deciphering the complex and unidentified mechanisms of membrane transport ultimately may lead to comprehension, control, drug development, and finally medical treatment or technological inventions that further improve the quality of life. We look forward to receiving your contributions.

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Deadline for manuscript submissions

31 October 2025



Biomolecules

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Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/198057

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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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