

Special Issue

Liquid–Liquid Phase Transition and Self-Assembly of Biomacromolecules

Message from the Guest Editors

Recently, it has been proposed that a liquid–liquid phase transition is responsible for the formation of membraneless organelles such as nucleoli, stress granules, and Cajal bodies. They form spontaneously in response to a variety of cellular signals, behave as liquid droplets, and allow the localization of specific biological functions. Many membraneless organelles contain proteins belonging to the class of intrinsically disordered proteins (IDP). These proteins have a low degree of structural order, which grants them the capacity of acting as a hub in the complex network of protein–protein interactions. It has been reported that IDP are directly involved either in the functional self-assembly of membraneless organelles or in the formation of insoluble pathological aggregates associated with various diseases. We invite interested colleagues to contribute to this Special Issue with original research articles and topical reviews with the aim of providing a compendium of the state of the art and encouraging further exploration of this fascinating theme.

Guest Editors

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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