

## Special Issue

# Structural Biology of Membrane Proteins

### Message from the Guest Editors

Membrane proteins are found in plasma membranes, in the membranes of cellular organelles or in the envelopes of viruses. These mediate key processes for cell function like membrane transport, signal transduction, cell recognition, cell adhesion or enzymatic reactions, thus representing important drug targets. The partitioning of membrane proteins in both lipid and water media is what makes the structural investigation of membrane proteins technologically challenging. Several strategies have improved this process, including the usage of recombinant proteins in the case of membrane proteins difficult to obtain from natural sources, screening of constructs from different species in order to identify the most stable and most suitable construct for structural studies. In addition, improvement of experimental methods, data collection and analysis has led to an increase in the structural information on membrane proteins and in the number of membrane protein structures deposited in databases. In this special issue we welcome experimental studies involving the usage of different techniques, as well as simulation studies that bring insight into the structure of membrane proteins.

### Guest Editors

Dr. Andrei-José Petrescu

Prof. Dr. Dan Florin Mihăilescu

Dr. Maria Alexandra Mernea

### Deadline for manuscript submissions

closed (31 December 2023)



## International Journal of Molecular Sciences

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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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