



Membrane Proteins: Structure, Function and Motion

Guest Editor:

Prof. Dr. Masoud Jelokhani-Niaraki

Department of Chemistry &
Biochemistry, Wilfrid Laurier
University, Waterloo, ON, Canada

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Message from the Guest Editor

Dear Colleagues,

Membrane proteins are present in all cells and are essential for their homeostasis and response to environmental changes. Membrane proteins are involved in a vast variety of dynamic cellular processes such as ionic and molecular transport, electron transport, signal transduction, enzymatic reactions, and intercellular communication. The main two challenges in determining membrane protein structures is in optimizing experimental conditions for their extraction/purification from cell membranes and their reconstitution in cell-like membranes. As a result of these challenging problems, membrane protein studies have become a flourishing research field in molecular biophysics. Visualizing the dynamic nature of membrane proteins and their interconnections in the cell is a key element in understanding the complex, yet efficient, molecular machinery of life.

Dr. Masoud Jelokhani-Niaraki

Guest Editor





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Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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