

Special Issue

Membrane Proteins: Structure, Function and Motion

Message from the Guest Editor

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.

Guest Editor

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