



Advances in Membrane Protein Research

Guest Editor:

Prof. Dr. Dario Mizrahi

Brigham Young University, Provo,
UT, USA

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Message from the Guest Editor

Integral membrane proteins represent one-third of all open frames in sequenced genomes. This is in contrast to their immense importance in medicine, where an estimate of 60–70% of current drug targets are based on membrane proteins. To ensure adequate drug design, analysis of the structure and function of membrane proteins is essential. Additionally, the “Resolution Revolution” brought about by single-particle Cryo-EM techniques continues to make progress, with the recently reported 1.7 Å resolution of the GABAA receptor structure. Nevertheless, our ability to take advantage of these methods is hindered in part by a lack of generally applicable methods for overexpression and purification, which are critical steps preceding functional and structural analysis. Thus, the bottlenecks prior to determining a membrane protein’s structure or characterizing its function remain. There is also an urgent need to improve the production of a sufficient amount of active membrane proteins. These limitations can be overcome through the development of new ideas, such as cell-free systems or amphipathic nanoparticles.





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Editor-in-Chief

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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*International Journal of Molecular
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MDPI, St. Alban-Anlage 66
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