

## Special Issue

# Interaction of Proteins with Biomembrane

### Message from the Guest Editors

The plasma and intracellular membranes are characterized by differing lipid compositions that enable proteins to localize to distinct subcellular compartments. A large number of proteins are known to interact with subcellular and cell membranes. Lipid-protein interactions determine protein conformations and protein-protein interactions, both of which, in turn, precisely regulate the localization and activation of molecular complexes at the respective membranes. Furthermore, membrane-bound proteins can control lipid/protein lateral diffusion and clustering, membrane fluidity, and membrane tension, which can induce intracellular signaling. These signaling pathways play crucial roles in various cellular processes such as cell migration, morphogenesis, membrane trafficking, and signal transduction. However, due to the complexity of the abundant protein-protein interactions within a cell, the exact molecular mechanisms by which proteins interact with lipids at the membrane interface remain unclear.

### Guest Editors

Dr. Yosuke Senju

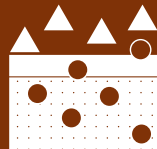
Research Institute for Interdisciplinary Science (RIIS), Okayama University, Okayama 700-8530, Japan

Prof. Dr. Shiro Suetsugu

1. Division of Biological Science, Graduate School of Science and Technology, Nara Institute of Science and Technology, Nara 630-0192, Japan
2. Data Science Center, Nara Institute of Science and Technology, Nara 630-0192, Japan
3. Center for Digital Green-Innovation, Nara Institute of Science and Technology, Nara 630-0192, Japan

### Deadline for manuscript submissions

closed (15 April 2021)



## Membranes

an Open Access Journal  
by MDPI

Impact Factor 3.3  
CiteScore 6.1  
Indexed in PubMed



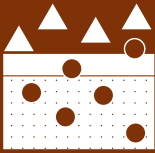
[mdpi.com/si/60254](https://mdpi.com/si/60254)

*Membranes*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[membranes@mdpi.com](mailto:membranes@mdpi.com)

[mdpi.com/journal/  
membranes](https://mdpi.com/journal/membranes)





# Membranes

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.1  
Indexed in PubMed



[mdpi.com/journal/  
membranes](https://mdpi.com/journal/membranes)



## About the Journal

### Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Prof. Dr. Spas D. Kolev  
School of Chemistry, The University of Melbourne, Melbourne, VIC  
3010, Australia

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q2 (Chemical Engineering (miscellaneous))