

## Special Issue

# Membrane Domains Organization and Interactions

### Message from the Guest Editors

Our knowledge of biological membranes has substantially changed over the past several years, from the fluid mosaic idea to the current concept of lipids and proteins separating into microdomains that differ in their protein and lipid compositions. The role of lipids and membrane proteins is not limited to constituting the cell barrier. They are also involved in a wide range of processes including intracellular and extracellular transport, communication, cell migration, cell shape formation, and participation in the mechanisms of signal transduction that regulate cell function and homeostasis. Investigation of the world of membrane domains and the function of specific protein–lipid complexes has become possible thanks to the novel advanced tools used to study functions of diverse lipid classes in membranes with structural analysis and simulations at the atomic resolution. This Special Issue will highlight the importance of the membrane domains in protein–lipid interactions and the implications of this role on our understanding of the overall organization and functioning of cell membranes and their relation to myriad cellular outcomes.

### Guest Editors

Dr. Agnieszka Polit

Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University in Kraków, ul. Gronostajowa 7, 30-387 Kraków, Poland

Dr. Paweł Mystek

Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University in Kraków, ul. Gronostajowa 7, 30-387 Kraków, Poland

### Deadline for manuscript submissions

closed (10 May 2022)



## Membranes

an Open Access Journal  
by MDPI

Impact Factor 3.6  
CiteScore 7.9  
Indexed in PubMed



[mdpi.com/si/84184](https://mdpi.com/si/84184)

*Membranes*  
Editorial Office  
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 3.6  
CiteScore 7.9  
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 (Polymer Science) / CiteScore - Q1 (Chemical Engineering (miscellaneous))