

Special Issue

Lipid-Gating and Lipid-Protein Interactions in Ion Channels

Message from the Guest Editors

Ion channels are permeation pathways for the transfer of ions across the lipid barrier of biological membranes. The impact of lipids and of lipid metabolism on channel function is still incompletely understood and considered to involve a variety of mechanistic concepts. Ion channel-lipid communication appears crucially involved in various human pathologies and has become in focus of therapeutic developments. The scope of this special issue of *Biomolecules* is to compile information on timely issues of ion channel-lipid communication, ranging from mechanistic aspects of lipid-gating in ion channels to structural insight into lipid coordination within channel complexes, new approaches for computational modeling of lipid-channel interactions and emerging pathophysiological as well as therapeutic concepts.

Guest Editors

Prof. Dr. Klaus Groschner

Gottfried Schatz Research Center, Division of Biophysics, Medical University of Graz, Neue Stiftingtalstrasse 6/III, 8010 Graz, Austria

Prof. Dr. Christoph Romanin

Institute of Biophysics, University of Linz, Gruberstrasse 40, 4020 Linz, Austria

Deadline for manuscript submissions

closed (30 June 2022)



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/66136

Biomolecules
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

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





Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.4
Indexed in PubMed



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



About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

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), PubMed, MEDLINE, PMC, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)