

Topical Collection

TOR Signaling Pathway

Message from the Collection Editors

Following a very successful first run, we are pleased to announce the launch of a second edition of a Special Issue on the TOR Signaling Pathway. Among the numerous protein kinases that play key roles in signal transduction pathways of eukaryotic cells, Target of Rapamycin (TOR) stands out because of its unique characteristics. TOR forms at least two distinct high-molecular weight Complexes, known as TOR Complex 1 (TORC1) and TOR Complex 2 (TORC2), with multiple regulatory subunits that determine signal inputs, substrate specificities, and intracellular localization. Rapamycin and other inhibitors of TOR affect diverse aspects of cellular physiology, such as growth, proliferation, as well as catabolic and anabolic processes, suggesting TOR functions at pivotal nodes of cellular signaling networks. We invite contributions from researchers who have been exploring distinct aspects of this unique protein kinase through studies in diverse model organisms. Both original research articles and reviews are welcome. Together, these studies will contribute to an integrated view of the emerging TOR network, implicated in cancers, metabolic diseases and aging in humans.

Collection Editors

Prof. Kazuhiro Shiozaki

1. Graduate School of Biological Sciences, Nara Institute of Science and Technology, Ikoma 630-0192, Nara, Japan
2. Department of Microbiology and Molecular Genetics, University of California, Davis, CA 95616, USA

Prof. Dr. Ted Powers

Professor at the Department of Molecular and Cellular Biology,
University of California, Davis, CA 95616, USA



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/58541

Biomolecules
Editorial Office
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 9.2
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, CAPlus / SciFinder, and other databases.

Journal Rank:

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