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TOR Signaling Pathway

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

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.

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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

Message from the Editorial Board

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Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Biochemistry*)

Contact Us

Biomolecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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