

Special Issue

Protein Mono-ADP-Ribosylation in the Control of Cell Functions

Message from the Guest Editors

Mono-ADP-ribosylation of proteins was discovered over 50 years ago. Later, it was found that higher eukaryotes possess homologs of one major clade of toxins, the Clostridium toxin-like ARTC enzymes, that have extracellular activities. Homologs of the second major clade of toxins, the diphtheria toxin-like ARTD enzymes are instead represented in the cytosol and nuclei of eukaryotic cells, and are responsible for both poly- and mono-ADP-ribosylation of targets.

The new millennium and especially the past few years, the definition of novel pathways driven by MARYlation—from the RNA regulation to the control intracellular transport—along with the identification of specific inhibitors, will likely have an important impact on cell biology research, with potential applications for the treatment of diseases.

This Special Issue will give a timely view of the field of mono-ADP-ribosylation. Contributions by expert laboratories will present methods, tools, and functional advances.

Guest Editors

Prof. Herwig Schöler

Karolinska Institutet, Department of Biosciences and Nutrition, 14157 Huddinge, Sweden

Dr. Giovanna Grimaldi

Institute of Biochemistry and Cell Biology, National Research Council, 80131 Naples, Italy

Deadline for manuscript submissions

closed (31 December 2020)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/39760

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

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





Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



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



About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny

Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE,
Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen,
Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).