Special Issue

Structure and Roles of Dynein in Cellular Processes

Message from the Guest Editors

Dynein is a microtubule-based motor protein responsible for intracellular cargo transport and cell motility.Its cargos include many essential membrane-bound organelles, ribonucleoprotein particles, and aggregated proteins. A fully activated dynein transport machine requires the formation of a tripartite complex, consisting of dynein-1, the dynactin complex, and an adaptor protein. Dynein-mediated cargo transport is a highly regulated cellular process in time and space, which involves the participation of many different cofactors and adaptors. Due to the many fundamentally important cellular roles of dynein-1, a large number of human diseases are linked to dynein-1 mutations. Furthermore, during the evolution, myriads of viruses have evolved to 'hitchhike' the dynein-1-mediated intracellular transport to facilitate their translocation, assembly, and replication in the host cells.

The topics of this Special Issue will include but are not limited to the following themes:

Guest Editors

Dr. Kai Zhang

Department of Molecular Biophysics and Biochemistry, Yale University, New Haven, CT, USA

Dr. Yue Wang

Department of Molecular Biophysics and Biochemistry, Yale University, New Haven, CT, USA

Deadline for manuscript submissions

closed (31 December 2023)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/146420

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

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

MDPI

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, CAPlus / 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).