Special Issue

Neurodegenerative Diseases and Related Proteins

Message from the Guest Editor

Proteins such as amyloid-□, tau, □-synuclein, TDP-43, huntingtin, and others play central roles in the onset and progression of neurodegenerative diseases. Aberrant conformational changes, disrupted cellular quality control systems, and pathological seeding of misfolded species collectively compromise neuronal homeostasis, leading to synaptic dysfunction, neuroinflammation, and cell death. Recent advances in high-resolution structural biology, single-cell omics, and in vitro/in vivo model systems have begun to unravel the complex interplay between proteostasis networks and neurodegeneration. This Special Issue will showcase studies that dissect these pathways at the molecular level, explore how genetic and environmental factors modulate protein toxicity, and evaluate novel compounds or gene-based therapies aimed at restoring protein homeostasis. By curating a comprehensive collection of articles, we aim to provide researchers and clinicians with a state-of-the-art reference that bridges fundamental discoveries and therapeutic innovation.

Guest Editor

Dr. Tian Liu
Department of Pathology, Case Western Reserve University School of Medicine, Cleveland, OH, USA

Deadline for manuscript submissions

closed (31 March 2026)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/246974

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 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).