

Special Issue

Neurodegenerative Diseases and Related Proteins

Message from the Guest Editor

Proteins such as amyloid- β , tau, α -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

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

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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.

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Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE,
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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).