

Special Issue

Exploring Tauopathy Through a Molecular Lens for Comprehensive Understanding

Message from the Guest Editors

Tauopathies, which involve dysregulation of the essential neuronal microtubule-associated protein Tau, are the most widespread neurodegenerative dementias. Unlike the familial frontotemporal dementia with Parkinsonism on 17 (FTDP-17), involving mutations in the MAPT gene, other Tauopathies are characterized as a wild type, hyperphosphorylated Tau isoforms that underlie neuronal dysfunction and neurotoxicity. However, the mechanisms that trigger the transformation of physiological Tau isoforms into hyperphosphorylated soluble or aggregated species are not well understood but are at the heart of Tau-dependent pathogeneses. For diagnoses and therapies, the critical molecular mechanisms linked with and ostensibly permissive to the progression of Tauopathies from nearly early non-symptomatic to the catastrophic consequences of dementia, also remain mostly undefined. This Special Issue will focus on the molecular mechanisms of Tauopathies, physiological functions of Tau, uncovering the unique function of each isoform, Tau-related molecular mechanisms that cause early cognitive and synaptic impairments and mechanisms that promote physiological Tau converts to pathological Tau.

Guest Editors

Dr. Eleni Tsakiri

Department of Physiology, Medical School, National & Kapodistrian University of Athens, 157 72 Athens, Greece

Dr. Karolos-Fivos Borbolis

Department of Physiology, Medical School, National & Kapodistrian University of Athens, 157 72 Athens, Greece

Deadline for manuscript submissions

closed (15 March 2025)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/195438

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).