

Special Issue

The Role of Inflammation in Neurodegenerative Diseases and Its Therapeutic Prospects

Message from the Guest Editor

The contribution of chronic peripheral inflammation to the pathogenesis of neurodegenerative diseases is currently a matter of debate. A wide range of pathologies causes sustained activation of the innate and adaptive peripheral immune systems. In addition, low-grade chronic inflammation occurs during aging even in the absence of other pathologies, which has been called "inflammaging". Peripheral inflammation is a prominent feature of the disruption of the brain-blood barrier resulting in several CNS diseases. Neurodegenerative diseases share a pervasive feature: chronic aberrant inflammation.

In this Special Issue, we welcome the submission including the following topics:

1. Crosstalk between Chronic Inflammation and microglia and astrocytes activation;
2. Inflammation caused by chronic infections, autoimmune and metabolic diseases and their relationship with neurodegenerative diseases;
3. Gut microbiome and inflammation in neurodegeneration;
4. Inflammaging and neurodegeneration;
5. BBB dysfunction in neurodegeneration;
6. Biomarkers of neuroinflammation with respect to neurodegeneration;
7. Drug development for neurodegenerative disorders based on chronic inflammation treatment.

Guest Editor

Dr. Dolores Viña

Research Group of Chronic Diseases Pharmacology, Center for Research in Molecular Medicine and Chronic Diseases(CIMUS), Universidade de Santiago de Compostela, Avda. de Barcelona, 15782 Santiago de Compostela, A Coruña, Spain

Deadline for manuscript submissions

closed (15 October 2023)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/123066

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).