Special Issue

Impact of Environmental Factors in Neuroinflammation Development: Role of microRNA and Opportunity for Diagnosis and Pharmacological

Message from the Guest Editor

The chance of developing neurological disorders increases significantly with age, in particular in industrial countries where pollutant emission is high. MicroRNA (miRNA) are a class of well-known noncoding RNA with a dynamic spatiotemporal expression pattern. Increasing experimental and clinical evidence indicates that miRNA expression is profoundly altered in neuroinflammatory diseases and that its normalization by using oligonucleotide-based therapy approaches is sometime sufficient to treat or even to eradicate pathologies, at least in animal models.

This Special Issue aims to gather relevant original research and review manuscripts on some challenging aspects of miRNA biology in neuroinflammatory diseases. Manuscripts on the impact of external environments factors such as air pollution, pesticides, as well of internal factors such as stress hormones, chronic alcohol consumption on the regulation of miRNA during the development of neuroinflammatory processes are particularly encouraged, as well as manuscripts presenting animal models recapitulating these diseases. Studies on age-related neuroinflammatory pathologies are also of interest.

Guest Editor

Dr. Patrick Baril
CBM Centre de Biophysique Moléculaire, Orleans, France

Deadline for manuscript submissions

closed (30 September 2021)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/75093

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

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).