



biology



an Open Access Journal by MDPI

Microglial Cells in Neurodegenerative Diseases

Guest Editor:

Prof. Dr. Björn Spittau

Medical School OWL, Anatomy
and Cell Biology, Bielefeld
University, 33615 Bielefeld,
Germany

Deadline for manuscript
submissions:

closed (30 September 2024)

Message from the Guest Editor

It has been shown that microglia significantly change their morphological and functional features during the course of neurodegenerative diseases, thereby contributing to the onset and progression of several CNS pathologies. However, whether microglia reactivity has beneficial or detrimental effects and consequences seems to depend on the particular disease. We aim to clarify the different microglia activation states found in distinct CNS pathologies and their contribution to disease outcomes.

Major questions are whether microglia are essential players for neurodegenerative processes and whether microglia depletion *in vivo* might be a therapeutic option for the treatment of neurodegenerative diseases. Furthermore, the understanding of how endogenous and/or exogenous factors or molecules regulate the reactivity of microglia in CNS diseases will be a major purpose of this Special Issue.

Submissions of original research and review manuscripts focusing on microglia activation and the role of microglia in neurodegenerative diseases of the brain and spinal cord are welcome.



mdpi.com/si/69369

Special Issue



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in
Molecular and Integrative
Biosciences, Faculty of Biological
and Environmental Sciences,
University of Helsinki, P.O. Box
56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology
Institute, University of Valencia
and CSIC, 46980 Valencia, Spain

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

Contact Us

Biology Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biology
biology@mdpi.com
[X@Biology_MDPI](https://twitter.com/Biology_MDPI)