Special Issue

Advances in the Study of Neuroinflammation

Message from the Guest Editor

For some time, it has been known that neuroinflammation is a complex multicellular process that plays a central role in a variety of neurological diseases, including acute inflammation, such as bacterial meningitis, as well as chronic inflammation in the form of neurodegenerative diseases or psychiatric and immune-mediated disorders. Numerous findings indicate that neuroinflammation can promote the progression of these disorders. In particular, the function of glial cells (astrocytes and microglial cells) and their activation, as well as the connection with immigrated immune cells in disease, are of great interest. The blood–brain barrier and the lymphatic pathways, as important sites of communication between the periphery and the CNS, have also become the focus of scientific investigations. As a result, there has been an explosion of interest in neuroinflammation and the tools available to study these processes in the brain. This Special Issue seeks papers related to acute or chronic neuroinflammation, developments of new models or therapeutic approaches and new objects, as well as the roles of interesting factors and glial cells in various disorders.

Guest Editor

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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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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).