

Special Issue

Inflammation in the Brain: From Molecular and Cellular Mechanisms to Therapeutic Strategies

Message from the Guest Editors

Neuroinflammation is increasingly recognized as a pivotal driver of both acute brain injury and chronic neurodegeneration and involves highly dynamic interactions among microglia, astrocytes, neurons, and infiltrating immune cells. With rapid advances in omics, imaging, model systems, and therapeutic design, the field is entering a transformative phase. To capture this momentum, *Cells* is launching a Special Issue, “Inflammation in the Brain: From Molecular and Cellular Mechanisms to Therapeutic Strategies.” We invite researchers to contribute original studies, reviews, and perspectives that illuminate pathways of neuroimmune signaling, identify biomarkers of disease progression, and explore innovative therapeutic strategies. By bringing together diverse expertise, this Special Issue aims to accelerate progress toward a deeper mechanistic understanding and improved treatments for inflammation-related brain disorders.

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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).