

Special Issue

Astrocytes: Roles and Functions in the Brain

Message from the Guest Editors

We are pleased to invite you to contribute to our upcoming Special Issue, “Astrocytes: Roles and Functions in the Brain.” Astrocytes, the most abundant glial cells in the central nervous system, were traditionally viewed as passive support cells. However, accumulating evidence has redefined astrocytes as active regulators of brain function. They play critical roles in synaptic transmission, metabolic support, blood–brain barrier maintenance, and immune responses. In pathological contexts such as neurodegeneration, epilepsy, and neuroinflammation, astrocytes undergo profound functional changes that can influence disease outcomes. Understanding the multifaceted roles of astrocytes is essential in unraveling the complexity of brain physiology and pathology. This Special Issue will gather original research and comprehensive reviews that advance our understanding of astrocyte biology, from development and heterogeneity to their dynamic roles in health and disease. The topic aligns with the journal’s mission to publish high-impact research in neuroscience, cellular biology, and neuroinflammation.

Guest Editors

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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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