

Special Issue

Glial Cells in Synaptic Plasticity

Message from the Guest Editors

Three decades ago, emblematic studies brought glial cells out of the shadows and then transformed modern neuroscience. Nowadays, glial cells are recognized as active partners of neurons supporting an amazing array of functions in the developing and mature brain but also contributing to neurological and psychiatric diseases and injury processes. It appears clearly that glial cells contribute to almost every aspect of brain computation and seems to guide our daily life. The field is still expanding at an accelerating pace. For this Special Issue, we welcome all types of manuscripts (Article, Review, Hypothesis, Opinion, Perspective) providing biological insights into the particular roles of glial cells in synaptic and circuits functional and structural plasticity and the implication to cognition in the healthy and diseased nervous system in any animal models including organoids. Emphasis will be given to emerging technological and methodological (theoretical and experimental) tools that offer new avenues to refine our understandings of glia (dys)functions in brain computation.

Guest Editors

Dr. Jean-Pierre Mothet

Prof. Dr. Vladimir Parpura

Dr. Marta Navarrete Llinás

Dr. Giovanni Cirillo

Deadline for manuscript submissions

closed (15 June 2023)



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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).