Special Issue

Mechanisms of Cell Death in Neonatal Brain Injury

Message from the Guest Editor

Our understanding of cell death mechanisms has undergone a revolution over the last decade, and we now need to evaluate how these more recently identified pathways (necroptosis, pyroptosis, ferroptosis, and autophagic cell death, among a myriad of others) impact the neonatal brain. It is also clear that cell death mechanism(s) are intertwined with factors incorporating the severity of insult, cell type, metabolic profile, sex, and developmental window. Articles collected together in this Special Issue will focus on discerning the molecular mechanisms and regulators of cell death triggered in the immature brain in response to a variety of neonatal brain injury paradigms. Such data are vital if new avenues for therapeutic intervention are to be identified for the successful treatment of neonatal brain injury and associated neurodevelopmental disorders.

Guest Editor

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Deadline for manuscript submissions

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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 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).