

Special Issue

Signaling and Mechanisms of Cell Death in the Nervous System

Message from the Guest Editors

Cell death in CNS is the key pathological hallmark for various neurological disorders. Diverse mechanisms of CNS cell death have been suggested, including oxidative stress, mitochondria dysfunction, ER stress, impairment of ubiquitin/proteasome, and lysosome/autophagy inhibition of protein degradation pathways, increase in intracellular calcium, over-activation of glutamate receptors, and activation of microglia and astrocytes, dysfunction of cell-cell interaction, disruption of the blood-brain barrier (BBB) integrity, and other unidentified novel cell death pathways. Various neuronal protection strategies have been investigated over decades and disease-modifying drugs targeting CNS cell death are still underdeveloped. This Special Issue aims to promote the research on the understanding of the pathological roles and molecular mechanisms underlying CNS cell death and its related neurological disorders, research on novel biomarkers, drug targets, and neuroprotective strategies. As the editors for this issue, we call on all researchers to make this issue a successful contribution to neuroscience. Guest Editor: Wanli Smith Co-: Yulan Xiong

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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