Special Issue

Novel Mechanisms and Therapeutic Opportunities of Ferroptosis

Message from the Guest Editors

Ferroptosis is a newly identified regulated cell death modality with unique characteristics compared to apoptosis and other types of cell death. Ferroptosis is caused by the disruption of several key metabolic pathways (including the ROS, amino acid, and lipid metabolism pathways) in the cell and is dependent on iron. There are three basic elements for ferroptosis: the substrate of lipid peroxidation, the executor of lipid peroxidation, and the anti-ferroptosis system. This Special Issue aims to collect papers about how ferroptosis is regulated and how ferroptosis pathways can be targeted to treat diverse diseases. We welcome papers about novel/non-canonical ferroptosis pathways and new drugs therapeutic methods targeting ferroptosis. Original research articles, reviews, and mini-reviews are welcome in this collection. Topics of interest include but are not limited to the follow:

- Novel mechanisms and regulators of ferroptosis;
- The role of p53 in both canonical and non-canonical ferroptosis regulation;
- Targeting ferroptosis for the treatment of various diseases.

Please note that the findings based on bioinformatic data mining should be validated by experiments.

Guest Editors

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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 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).