

Special Issue

Novel and Experimental Strategies for the Treatment of Neurodegenerative Diseases

Message from the Guest Editors

This Special Issue of *Cells*, titled "Novel and Experimental Strategies for the Treatment of Neurodegenerative Diseases", aims to present cutting-edge research and emerging therapeutic strategies that hold promise for modifying disease progression. We are particularly interested in highlighting advances in the following:

- **Stem Cell Transplantation:** utilizing stem cells to replace damaged neurons, support neural growth, and modulate immune responses;
- **Immunotherapy:** using the body's immune system to target and neutralize pathological proteins and reduce neuroinflammation;
- **Gene Therapy:** employing technologies such as CRISPR/Cas9 and viral vectors to correct genetic mutations and provide long-term solutions for genetic neurodegenerative diseases;
- **Focused Ultrasound (FUS):** using this non-invasive technique to enhance drug delivery to the brain by temporarily opening the blood–brain barrier for precise targeting;
- **Neuroprotective Agents:** developing small molecule drugs that protect neurons from damage by targeting pathways involved in oxidative stress, mitochondrial dysfunction, and protein misfolding.

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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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).