Topical Collection

Oligodendrocyte Physiology and Pathology Function

Message from the Collection Editor

In multiple sclerosis (MS) patients, chronic clinical deficits are known to result from axonal degeneration, which is triggered by demyelination and inadequate remyelination. The underlying mechanisms of oligodendrocyte degeneration and regeneration are still poorly understood. This Special Issue will collect articles that address ongoing research into promoting myelin repair, understanding the physiology and pathology of oligodendrocytes, the interaction of oligodendrocytes with central and peripheral immune cells, and the various models that allow us to study oligodendrocyte physiology and pathology. Keywords

- Demyelination
- Remyelination
- Neurodegeneration
- Oligodendrocyte
- Myelin
- Multiple sclerosis
- Leukodystrophy
- Cell–cell communication

Collection Editor

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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).