

Topical Collection

Cell Biology of Spinal Cord Injury and Repair

Message from the Collection Editors

Spinal cord injury (SCI) usually causes complicated pathophysiology in the CNS and persistent functional deficits without a cure. In this Topical Collection, we invite investigators to contribute original research or review articles that highlight recent important advances in the cell biology of SCI and neural repair, including novel mechanistic insights into neural damage and cell loss, regeneration failure and functional loss, and development of effective strategies to enhance CNS repair, cell survival, neuronal regeneration, remyelination, and functional recovery. Potential topics include but are not limited to the following: - Cellular and molecular responses of neural cells to SCI and other CNS injuries, including neuroimmune responses, glial scar genesis, and glial-neuronal interactions; - Novel mechanisms underlying cell damage/death, regeneration failure, and demyelination after SCI; - Novel cellular targets and strategies for neuroprotection and for enhancing cell growth, neuronal regeneration, remyelination, and neuroplasticity after CNS injuries; - Other promising therapeutic and translational strategies for repairing injured spinal cord or other CNS regions.

Collection Editors

Prof. Dr. Shuxin Li

Prof. Dr. George Smith

Prof. Dr. Junfang Wu



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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

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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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny

Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE,
Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen,
Copenhagen, Denmark

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High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

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).