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Cell Biology of Spinal Cord Injury and Repair

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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.



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Topical Collection



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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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