

## Special Issue

# Regenerative Rehabilitation for Spinal Cord Injury

### Message from the Guest Editors

This Special Issue of *Bioengineering* focuses on the emerging field of regenerative rehabilitation for spinal cord injury (SCI), an area at the intersection of tissue engineering, cellular therapies, and rehabilitation science. The goal is to highlight innovative strategies that combine biological repair with functional recovery, bridging gaps between regenerative medicine and physical therapy. This issue invites contributions that explore mechanistic studies, preclinical models, clinical trials, and technological advances that integrate regeneration with rehabilitation. Topics may include neuroplasticity, activity-based therapies, biomaterials designed for functional integration, and data-driven tools for personalized recovery. We are especially interested in research that demonstrates synergy between biological repair and functional outcomes. By bringing together interdisciplinary work, this issue aims to advance the understanding and clinical translation of regenerative rehabilitation for SCI, with the long-term goal of improving quality of life and functional independence for individuals living with spinal cord injury.

### Guest Editors

Dr. Ajay Pal  
Prof. Dr. George Smith  
Dr. Andrew J. Spence

### Deadline for manuscript submissions

30 April 2026



## Bioengineering

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### Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

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