

## Special Issue

# Novel Techniques in Spine Neurosurgery

### Message from the Guest Editors

Spinal neurosurgery has evolved significantly over the past decades, shifting from traditional open approaches to increasingly refined, minimally invasive, and patient-tailored techniques. This transformation has been driven by advancements in surgical instrumentation, spinal navigation, robotics, and endoscopy, as well as a deeper understanding of spinal biomechanics and neuroanatomy.

The aim of this Special Issue is to provide a comprehensive overview of the most recent innovations in spine neurosurgery, highlighting novel techniques that are reshaping clinical practice and improving patient outcomes. We invite contributions that explore both the technical and clinical aspects of these innovations, including their indications, limitations, and long-term results.

We are particularly interested in cutting-edge research on minimally invasive spinal surgery, spinal endoscopy, 3D navigation, robotics, augmented reality, biologics for spinal fusion, and neuromodulation for spinal pain. Comparative studies, technical notes, systematic reviews, and original research articles are welcome.

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### Guest Editors

Dr. Maurizio Fornari

Department of Neurosurgery, IRCSS Humanitas Research Hospital, Via Alessandro Manzoni 56, 20089 Rozzano, Milan, Italy

Prof. Dr. Cesare Faldini

1. Department of Biomedical and Neuromotor Science (DIBINEM), University of Bologna, Bologna, Italy
2. 1st Orthopaedic and Traumatologic Clinic, IRCCS Rizzoli Orthopaedic Institute, 40125 Bologna, Italy

Dr. Gabriele Capo

Humanitas Research Hospital, Milano, Italy

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### Deadline for manuscript submissions

28 February 2026



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[brainsci@mdpi.com](mailto:brainsci@mdpi.com)

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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 *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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### Editor-in-Chief

Prof. Dr. Stephen D. Meriney

Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA  
15260, USA

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