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Bioengineering Strategies for Nerve Repair

Guest Editor:

Dr. Munmun Chattopadhyay

Department of Molecular and Translational Medicine, Center of Emphasis in Diabetes and Metabolism, Texas Tech University Health Sciences Center, 5001 El Paso Drive, El Paso, TX 79905, USA

Deadline for manuscript submissions:

closed (31 January 2025)

Message from the Guest Editor

This Special Issue invites the submission of original research articles, reviews, and perspectives that encompass a wide range of topics related to bioengineering strategies for nerve repair. We encourage submissions that explore various aspects of nerve regeneration, nerve tissue engineering, biomaterials design, imaging techniques, and innovative approaches to enhance nerve function recovery.

Potential topics of interest include, but are not limited to, the following:

- Nerve tissue engineering using biocompatible scaffolds and three-dimensional (3D) printing techniques;
- Bioactive materials and their role in nerve repair and regeneration;
- Advanced imaging techniques for monitoring nerve regeneration processes;
- Neurophysiological assessments and functional restoration approaches;
- Neural interfaces and neuroprosthetics for nerve repair;
- Gene therapy and gene delivery systems for nerve regeneration;
- Stem cell-based therapies and their potential in nerve repair;
- Optimizing electrical stimulation and other physical interventions for nerve tissue regeneration;



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Department of Biomedical
Engineering, Texas A&M
University, College Station, TX
77843, USA

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Message from the Editor-in-Chief

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Bioengineering Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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