

Special Issue

Neuroregenerative and Neuroprotective Strategies Based on Smart Nanomaterials

Message from the Guest Editor

During the nerve regeneration process a large number of biological events, including axonal outgrowth, spatial organization of different cell types, cell–cell interactions, and cell–matrix interactions, need to be re-assembled. Nanomaterials can be used to finely modulate nerve regeneration by localization of therapeutic factors or depletion of detrimental molecules; for physical guidance of the nerve regeneration process; to promote axon outgrowth by altering intracellular signaling cascades or perturbing intrinsic neural electric activity. This open-access Special Issue will bring together original research and review articles to highlight new discoveries, approaches, and technical developments in the field of nanomedicine for promoting axon outgrowth, nerve regeneration, and neuroprotection. The goal of the Special Issue is to summarize and enlarge the knowledge in nanomedicine-driven strategies for the treatment of injuries and diseases affecting the peripheral (PNS) and the central nervous system (CNS).

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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