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# Neuroregenerative and Neuroprotective Strategies Based on Smart Nanomaterials

Guest Editor:

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## Message from the Guest Editor

Dear Colleagues,

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 openaccess 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).









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### Message from the Editor-in-Chief

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