

Special Issue

Nanoparticles and Materials Design for Nervous System Diseases

Message from the Guest Editors

Functional-materials-based therapeutic approaches have been seen as a novel strategy to improve nervous system diseases' efficacy. However, most of these synthesized biomaterials do not offer an on-demand bio-cue or physical stimulus for tissue regeneration and mismatch the surface properties to tissue development, thus leading to weak tissue guidance, especially for neuron regeneration. Further, natural polymer usually lacks the appropriate mechanical property and stability during surgery and implantation in vivo, and the potential ex vivo model of nerve systems is also critical. Therefore, this Special Issue aims to highlight current progress in the use of nanoparticles and materials design as well as new ex vivo system strategies for nervous system diseases.

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Deadline for manuscript submissions

closed (30 August 2022)



Pharmaceutics

an Open Access Journal
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Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



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