

Special Issue

Drug Delivery for Treatment of Neurodegenerative Diseases

Message from the Guest Editors

The failure of many molecules as CNS pharmacologically active compounds is due to different restrictions, such as poor water solubility, reduced intestinal absorption, in vivo stability, bioavailability, plasma fluctuation levels, and difficulties crossing the blood–brain barrier (BBB). Nanotechnology-based approaches, employing liposomes, micelles, dendrimers, and solid lipid nanoparticles (SLN) as drug delivery systems, are used to overcome the above-reported limitations. During the last few decades, new drug delivery technologies have emerged to treat neurodegenerative diseases; these formulations have the ability to protect drugs from chemical and enzymatic degradation, deliver the active compound to the target site with a substantial reduction of systemic toxicity, and pass physiological barriers, increasing bioavailability without resorting to high dosage forms. The aim of this Special Issue is to highlight current progress in the use of new drug delivery technologies to overcome the BBB and to target drugs to the CNS.

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