Tentative Outline

Thematic Issue for Current Pharmaceutical Design

“Nanotherapeutics for neurological disorders”

Guest Editors: Prof. (Dr.) Sanjula Baboota and Prof. (Dr.) Javed Ali

Aim and Scope

Nanocarriers are receiving considerable attention for the delivery of therapeutic drugs for the treatment of various neurological disorders. They are gaining interest since they are able to increase solubility, permeability, protect the encapsulated drug from biological and chemical degradation and also from P-gp efflux proteins which can increase CNS availability of the drug. Various non invasive routes like oral, intranasal, transdermal routes are being explored using nanocarriers to attain maximum drug concentration and retention in brain, increase the fluidization of BBB membrane, open the tight junctions between endothelial cells and inhibit the P-glycoprotein efflux system.

Thus in the present guest edited issue focus will be on the use of various nanoparticulate drug delivery system and other therapeutic approaches researched till now for the treatment of various neurological disorders.

Keywords: Nanocarriers, neurological disorders, targeting, bioavailability enhancement

Subtopics

1. Nano Drug Delivery for Parkinson’s disease, neuropathic pain, depression, epilepsy, brain tumours, Alzheimer’s disease
2. Nano Drug Delivery using Cold Atmospheric Plasma for neurological disorders
3. Ligand mediated approaches for neurological disorders
4. Carbon dots and dendrimers for neurological disorders

Schedule

- Manuscript submission deadline: 15 November, 2019
- Peer Review Due: 15 January, 2020
- Revision and final manuscript submission by the authors: 15 February, 2020
- Announcement of acceptance by the Guest Editors: 15 March, 2020
- Final Manuscript Due: 30 March, 2020
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