

Chapter 4

Aim and Objective

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4.1 Aim

Design, optimization, characterization, and evaluation of Memantine-loaded PLGA self-assembled nanoscaffolds for prolonged action in Alzheimer's disease.

4.2 Objectives

Following objectives were set to achieve the above-mentioned aim:

1. Development of Memantine-loaded PLGA self-assembled nanoscaffolds for the treatment of Alzheimer's disease.
2. Preparation of PEG-coated self-assembled nanostructures (PEG-MEM-PLGA) SANs for the penetration and delivery of drugs across the BBB for prolonged action in Alzheimer's disease.
3. Evaluation and validation of possible mechanism of paracellular transport of nanostructures to brain alongwith the neuroregeneration potential of SANs.

