

# Thematic Issue for Current Pharmaceutical Design

**"New Targets and strategies of Medical Treatments in neurological and neurodegenerative disorders"**

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## Aims and Scope

Currently, the conventional treatment of neurodegenerative/neurological diseases such as Parkinson's disease (PD), epilepsy or Alzheimer's disease delay the process, is symptomatic does not cure the disease. Recently alternative treatments: neuroprotective agents, and Medicinal nutrition (ketogenic diet) have gradually been widely used in practice. Alzheimer's disease (AD) is characterized by loss of neurons and synapse in the hippocampus. The amyloid, plaques and neurofibrillary tangles are clearly observed in the AD brain. Some completing treatment hypotheses have existed for decades: Cholinergic hypothesis, amyloid hypothesis, metabolic hypotheses and Tau hypothesis, as well as the idea of exercise and natural products for promoting memory and improving the cognitive functions.

The objective of this special issue is to give a vision of different pharmacological and nutritional strategies to develop new treatments for the prevention and cure of diseases that affect the central nervous system. Refractory epilepsy affects 20-30% of patients and constitutes a serious problem should be solved in the future knowing the cause of the loss of effectiveness of drugs. With reference to the other neurodegenerative diseases, it is evident that it is necessary to propose new strategies to solve the problem of cognitive loss in AD, for example, by stimulating the hippocampal insulin receptor, by inhibiting glial activity, or, by the development of new drug strategies through nanoparticles.

This thematic issue will gather information with and emphasis in new targets and strategies the potential therapeutic uses. Moreover, it will generate a forum for discussion of development of new pharmaceutical strategies (nanoparticles, etc) and effects, including the effect in different biological systems.

Keywords: Neurodegenerative diseases; Parkinson's disease; Alzheimer's disease; epilepsy, Mediterranean diet, obesity, insulin, alternative medicine; nanoparticles.

## Subtopics

1. Neurodegenerative diseases
2. Epilepsy

3. Neurological disorders

4. Mediterranean diet

5. Nanoparticles

Schedule

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