Recent advances in drug design and development for neurodegenerative diseases

Aims & Scope:
Neurodegenerative disease is an umbrella term that encompasses a variety of sporadic and/or familial conditions which mainly affect the neurons in the human brain. The brain and spinal cord constitute the nervous system which is made up of the neurons. These neurons when get damaged they cannot be replaced by the body. The neuronal damage or loss is associated with extra- and intracellular accumulation of misfolded proteins. This has been observed that the type of aggregated protein and the distribution of depositions are not common in all the disease but overlap and intra individual diversities between different phenotypes suggests common pathogenic mechanisms and similar pathways of initiation and propagation of neurodegeneration. Few prominent neurodegenerative diseases include Parkinson’s, Alzheimer’s, and Huntington’s disease, however a few hundred of these diseases have been estimated. These diseases are most active in respect of both medical and associated social issues. The understanding of basic molecular mechanisms of neurodegenerative diseases and finding ways for their prevention and treatment strategies are the need of the hour. This special issue is a step towards this issue.

Topics to be covered (main bioactive component):
- Potential topics include, but are not limited
- Alzheimer’s disease (AD) and other dementias
- Parkinson’s disease (PD) and PD-related disorders
- Huntington’s disease (HD)
- Amyotrophic lateral sclerosis
- Stroke and neurodegenerative disorders
- Aging and neurodegeneration

**Keywords:**

Neurodegeneration, Neurodegenerative diseases, CNS, Alzheimer’s disease (AD), Parkinson’s disease (PD), neuroprotection, Neuronal death

**Schedule:**

March, 2018.