

## Tentative Outline (Preliminary Proposal of Thematic Issue)

### Special/Thematic Issue for the journal "Current Topics in Medicinal Chemistry"

#### Title of the Thematic Issue: Machine learning for neurodegenerative diseases

*Guest Editor's Name: Professor Chengli*

*Co-Guest Editor: Dr. Chi Zhang*

#### • **Scope of the Thematic Issue:**

Neurodegenerative diseases are a type of progressive, disabling, and severely fatal complex disease including amyotrophic lateral sclerosis (ALS), Huntington's disease (HD), Parkinson's disease (PD), Alzheimer's disease (AD), etc. Machine learning plays an important role in the discovery of the new mechanism, target and agents. In the past few decades, the developments in the field of data mining, life science and chemistry improve the treatment of disease. Thus, there is a need to fundamentally address all the above-mentioned issues. Here, we seek original manuscripts for a Thematic Issue

**Keywords:** machine learning, Neurodegenerative diseases, data mining, drug design, drug target

#### **Sub-topics:**

- Structure-based drug design for neurodegenerative diseases
- computer-based in drug design for neurodegenerative diseases,
- drug discovery and design for cardiovascular and cerebrovascular diseases,
- novel computer simulation and computational methods for the mechanism of neurodegenerative diseases
- target of neurodegenerative diseases,
- new diagnostic and therapeutic agents,
- active targeting agents

#### **Schedule:**

- ✧ Deadline to submit the finalized proposal of Thematic issue: 02-March-23

#### **Details of Guest Editor:**

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