Tentative Outline

Special Thematic Issue for CNS & Neurological Disorders - Drug Targets

Thematic issue title: Linkage of COVID-19 and Neurodegenerative disorders

Guest Editors: Prof. Mohammad Amjad Kamal

Aims & Scope:

In December 2019, for the first time, a mysterious pneumonia illness was reported in a patient in Wuhan, China, which later spread to several countries. Later investigation revealed that mysterious pneumonia also termed as "coronavirus disease 2019". It was caused by "2019-nCoV", a new member of the coronavirus family, which was responsible for this epidemic (later declared as a pandemic). The newly identified 2019-nCoV belongs to the member of enveloped RNA virus family comprising of SARS-CoV and MERS-CoV. The SARS-CoV-2 mediated COVID-19 has rapidly spread all over the globe and has been officially recognized as a pandemic by WHO. Till date, this virus has infected several millions of populations with mortality close to half of the million. A large number of recent research highlights the detailed impact of COVID-19 on the general population. Several previous finding on SARS-CoV on patients and experimental animals show that this virus also infects the brain, including the brainstem. Findings also revealed the entry of MERS- or SARS-CoV via olfactory nerves. There are finding reporting the presence of the virus within the brain, suggesting the direct transfer of the virus within the CNS via olfactory nerves. This special issue will cover the topic, providing the linkage between the SARS-CoV2 mediated viral infection and the central nervous system (CNS), along with its impact on patients with neurodegenerative disorders as well even implementation of computational approaches (Artificial Intelligence, Deep Machine Learning and Bibliometric analysis etc..).

Keywords: Alzheimer's disease; Artificial Intelligence; Bibliometric analysis; COVID-19; Deep Machine Learning; Disorders; Immunology; Linkage; Neurodegenerative; Neuroscience; Parkinson's; Virology

Subtopics:

The subtopics to be covered within this issue are listed below:

- Synopsis on linkage of COVID-19 and neurodegenerative disorders
- Critical overviews on linkage of COVID-19 and Alzheimer's disease
- Current update on linkage of COVID-19 and Parkinson's disease
- Bibliometric analysis of 100 top class articles on COVID-19 and neurodegenerative disorders
- Artificial Intelligence versus COVID-19 and neurodegenerative disorders
- Implementation of deep machine learning over COVID-19 and neurodegenerative disorders

Schedule:

- ✧ Manuscript submission deadline: 31 August 2020
- ✧ Announcement of acceptance by the Guest Editors: 31 October 2020
- ✧ Final manuscripts due: 23 December 2020

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