

## Tentative Outline

### Special Thematic Issue for Current Topics in Medicinal Chemistry

#### Contributions of Medicinal Chemistry during the Pandemic of COVID-19

*Guest Editors: Dr. Jitendra Kumar Sinha and Dr. Shampa Ghosh*

##### Aims & Scope:

The novel coronavirus disease 2019 (COVID-19) has become the largest worldwide public health issue of all times till date. Initially, only respiratory system was reported to be involved. But subsequent research studies showed that almost every system in the body is impacted by the SARS-CoV-2 virus. With time, the neurological and psychological impacts of COVID-19 are becoming clearer as evidences are piling up. It becomes pertinent to discuss and update all stakeholders of health and allied sciences with the most recent and updated knowledge of drugs and medicinal entities in this context.

Additionally, the whole plethora of communicable and non-communicable disorders, which were considered to be a big burden on the public health and economy, took a back seat for many months altogether. This has further complicated the understanding of co-morbidities and utilization of different healthcare systems. There is an urgent need of understanding the importance of holistic approach towards healthcare at individual, community and national level by everyone including pharmacologists, researchers and physicians.

Therefore, in this special thematic issue of **Current Topics in Medicinal Chemistry**, entitled "*Contributions of Medicinal Chemistry during the Pandemic of COVID-19*", only high-quality research and review articles on COVID-19 from the leading international researchers and scientists will be published. The contributing authors and editors will be assimilating the current knowledge and understanding of the different aspects of medicinal chemistry concerned with COVID-19. Sincere efforts will be delineated by all the contributors to assimilate the available knowledge and recent understanding on the topic and emerging pharmacological strategies. This issue would be based on the findings, recent verifiable updates and future perspectives of medicinal chemistry.

**Keywords:** COVID-19, Pharmacotherapy, Vaccine, Natural therapeutics, Immunotherapy, Drug discovery, Synthetic chemistry, Bioorganic chemistry, High-throughput screening, Combinatorial medicinal chemistry, Drug metabolism, New and emerging drug targets for COVID-19, Natural products.

##### Subtopics:

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

- Latest and outstanding developments on the medicinal chemistry, pharmacology, molecular biology, genomics and biochemistry in the COVID-19
- Molecular targets in terms of disease specific proteins, receptors, enzymes, genes involved in COVID-19
- Emphasize the discovery, identification, characterization and validation of novel human drug targets to find therapeutics in the management of COVID-19
- Drug targets and understanding of the COVID-19 pathology at organ system level like Central Nervous System.

##### Schedule:

- ✧ Manuscript submission deadline: 30 December 2020
- ✧ Peer Review Due: January 2021
- ✧ Revision Due: February 2021
- ✧ Announcement of acceptance by the Guest Editors: March 2021
- ✧ Final manuscripts due: April 2021

## Contacts:

### *Guest Editors*

1. *Dr. Jitendra Kumar Sinha*

*Affiliation: Amity Institute of Neuropsychology and Neurosciences, Amity University UP, Sector 125, NOIDA, Uttar Pradesh 201303 India*

Email: [jitendrakumarsinha@gmail.com](mailto:jitendrakumarsinha@gmail.com), [jksinha@amity.edu](mailto:jksinha@amity.edu)

2. *Dr. Shampa Ghosh*

*Affiliation: Indian Council of Medical Research - National Institute of Nutrition, Tarnaka, Hyderabad, Telangana 500007 India*

Email: [g.shampa17@gmail.com](mailto:g.shampa17@gmail.com)

Any queries should be addressed to [ctmc@benthamsience.net](mailto:ctmc@benthamsience.net).