

## Tentative Outline

### Special/Thematic Issue for the journal Coronaviruses

**Title of the Thematic Issue: COVID-19 Progression from Acute to Long COVID-19**

*Executive Guest Editor: Dr. Vijay Kumar*

#### Scope of the Thematic Issue:

The pandemic COVID-19 started from the Wuhan district of republic of China in late 2019. By 2020 it gripped whole world causing millions of deaths and hospitalizations. It disturbed the life and socio economical status of countries across world. Severe acute respiratory syndrome-Coronavirus-2 (SARS-CoV-2) proved to be causal organism for the disease, which mutated to different variants causing different phenotypes of the disease. We still do not know about the exact origin of the SARS-CoV-2 and primary host of the virus. The quick vaccine development and its inoculation to people across the world helped to escape from lethal effects of the disease, including increased hospitalizations, severity of the diseases, and deaths. However, mutated SARS-CoV-2 developed different strategies to escape from vaccines and host-derived immunity. During this period of pandemic another phenotype of disease emerged called long COVID-19. People with long COVID-19 have the symptoms year-long, including micro blood clots hard to see and get re-infected spontaneously. Thus, it would be interesting to understand immunological and pathophysiological mechanisms responsible for acute and long COVID-19, along with host factors responsible long COVID-19.

**Keywords:** SARS-CoV-2, COVID-19, Host factors, Virus evolution, Immune response, Pathophysiology

#### Sub-topics:

- SARS-CoV-2 evolution
- Genetic factors determining COVID-19 resistance and severity
- Immunology and immunopathogenesis of acute and long-COVID-19
- Pathophysiology of SARS-Cov-2 infection (Acute and Long COVID-19)
- Vaccine development and its role hold of back COVID-19

#### Schedule:

- ✧ Complete Thematic issue submission deadline: **30<sup>th</sup> November 2023**

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