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## New Advance in Viral Immunogens and Vaccines

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**closed (31 May 2023)**

### **Message from the Guest Editors**

Dear Colleagues,

The COVID-19 pandemic caused by SARS-CoV-2 has brought unprecedented challenges, significantly impacting our day-to-day lives. A vast amount of scientific literature has been produced to study the biology of the virus and the pathophysiology of COVID-19 to determine the best way to prevent infection. At the beginning of an immune response formation to SARS-CoV-2, the first step is the exposure of human cells to the virus, the process then setting its course in both the major histocompatibility complex (MHC) class I and II direction and the direct natural killer (NK) cell activation. Previous clinical and epidemiological studies have shown that, over time, antibody titers vanish, and do not provide long-term mucosal protection against SARS-CoV-2 infection, with some recent studies suggesting that the sustained cellular immune response plays a critical role in long-term protection in individuals recovering from SARS-CoV-2 and after vaccination. We hope this Special Issue will help in answering some of the many still unanswered questions regarding COVID-19.



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# Special Issue



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## Message from the Editor-in-Chief

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