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Current Trends in RNA Virus Vaccines

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Message from the Guest Editor

As you are perfectly aware, RNA viruses are one of the leading causes of infectious animal, human and zoonotic diseases worldwide, affecting millions of people, as clearly exemplified by the current devastating epidemic of the recently identified SARS-CoV-2 that has already infected more than 50 million people and caused more than 1.2 million deaths. Vaccine development has had an enormous impact on overcoming the global burden of diseases throughout the use of a vast number of classical and state of the art approaches, from purified inactivated and live attenuated viruses, to nucleic acid (DNA or RNA)-based candidates, virus-like particles, subunit elements, and recombinant viruses. However, licensed vaccines are only available for a few RNA viruses, and, thus, new and improved vaccines are necessary for many others. Therefore, to achieve a more comprehensive understanding of the current trends in vaccine development against RNA viruses, this Pharmaceuticals Special Issue is dedicated to recent developments and technological progress in vaccinology against RNA viruses, and the molecular mechanisms and immune responses involved.

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