



Conference Abstract

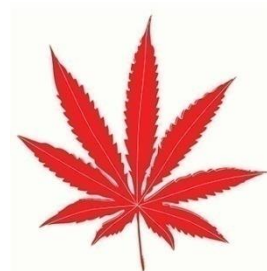
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A Response to COVID-19

International Conference of Pharmaceutical and Medical Sciences

September 1-3, 2020 (Tuesday - Thursday)

Faculty of Pharmacy For Girls - Al Azhar University, Cairo, Egypt.



Conference Abstract

APPROACHES TOWARD VACCINE DEVELOPMENT FOR COVID 19

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ABSTRACT

Coronaviruses are belonging to a large family most of them are animal viruses except 6 of them cross the species barrier to infect human. At the beginning of the 21th century SARS-CoV1 was emerged and controlled followed by Middle East Respiratory Syndrome CoV (MERS-CoV) which still circulating in the Arabian Peninsula and by the end of 2019 the new SARS-CoV was emerged with high potential for transmission globally. The risk of the SARS-CoV2 is being in the novelty of the virus where the similarity of SARS CoV2 with MERS-CoV is ~51.8% and with SARSCoV1 is 79% and the second issue is the rapid transmission of the virus. To control this rapid transmitted virus, we have to develop a candidate vaccine, and this is what the researchers do in many countries including Egypt. Our approaches to develop candidate vaccines are i) Virus vectorbased vaccine; ii) DNA vaccine ; iii) the recombinant DNA constructs which prepared in approach II were used to express the corresponding peptides (S1,S,S2,RBD &N) and IV) Whole virus inactivated candidate vaccine

Speaker's Biography

Dr. Mohamed Ahmed Ahmed Ali , a professor and director of Centre of Scientific Excellence for Influenza Viruses (CSEIV), Water Pollution Research Department, Environmental Research Division, National Research Centre (NRC), Dokki, Egypt. In 1984, he studied the seroconversion of poliovirus vaccine strains and the prevalence of polioviruses in water resources. In 2006, He started the research on avian influenza virus H5N1 and could with his research team to develop an Egyptian reassortant H5N. In 2012, he started working on the novel coronavirus (MERS-CoV) in Egypt and other countries. He got several awards and certificates of appreciation for his scientific excellence in international publications.

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