

The Coronavirus (COVID-19): Challenges for potential treatment interventions and vaccines

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Abstract

The Coronavirus (COVID-19) has become an issue of international concern, with many countries enforcing total lockdowns on their citizens to combat its spread. The initial cases of this virus are traced in Wuhan, a Chinese city in December 2019. It has, however, spread to numerous countries over the past three months, causing multiple fatalities and strain on countries' healthcare systems. Statistics reveal that approximately 800,000 cases have been recorded worldwide, with deaths almost reaching the 40,000 mark (New York Times). China, Italy, Spain, and the United States of America have so far recorded the highest numbers of confirmed cases and fatalities. The World Health Organization already declared it a global pandemic due to the numerous risk factors. The infectious nature of the disease has led to healthcare crises, with scientists desperately searching and testing for potential treatment interventions and vaccines. The testing of the vaccine could also be delayed since its safety and effectiveness must be ascertained before it is rolled out. It is, therefore, imperative to explore other alternatives that are effective with fewer risks on the human body. Firstly, a robust immune system is critical in the treatment and cure for COVID-19. The severity of the disease is proportional to an individual's immune system, with compromised immunity posing significant challenges.

Speaker Publications:

1. "Novel SARS-CoV-2 outbreak and COVID19 disease; a systemic review on the global pandemic"; Genes & Diseases; 2020.
2. "Knowledge towards digital library and innovation in pharmacy practice"; 2017, 1188-93.
3. "Contribution of non-pharmacological factors in non-compliance of dots amongst tuberculosis patients"; 2016.
4. "Nano-ropinirole for the management of Parkinsonism: Blood-brain pharmacokinetics and carrier localization"; Expert Review of Neurotherapeutics; 2020, Vol 15(6): 1-16.
5. "Hematological and immunobiochemical study of green tea and ginger extracts in experimentally induced diabetic rabbits"; Acta poloniae pharmaceutica; 2016, Vol 72(3):497-506.

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<https://biotechnology.pharmaceuticalconferences.com/abstract/2020/the-coronavirus-covid-19-challenges-for-potential-treatment-interventions-and-vaccines>)



Biography:

Dr. Abdulmohsen H. Alrohaimi has earned his doctorate degree from Tufts University Boston USA in the area of Pharmacogenetics. Back in Saudi Arabia, he joined Saudi Food and Drug Authority (SFDA) as an executive director and established the infrastructure for clinical trial in the kingdom. He contributed to SFDA all his skill and expertise and initiated many educational awareness programs for the community development. Currently he is holding position of dean in the School of Pharmacy Shaqra University.