An insight into the inactivation of coronaviruses by biocidal agents and a suggested prophylactic and therapeutic intervention to handle SARS-CoV-2

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Abstract

A new epidemic caused by SARS-CoV-2 has affected millions of people around the world with high rate of mortality. In this article, an insight into the mechanism of inactivation of some conronaviruses by formaldehyde and glutaraldehyde is presented, based on analysis of previous observations during electron microscopic examination of several members of the orthocoronavirinae subfamily, including the new virus SARS-CoV-2. A new prophylactic and therapeutic measure is suggested. However, it needs to be tested experimentally before consideration to be used solely or in adjunction to other therapies. Also, a preconditioning step against the cytokine storm of COVID-19 is proposed and a new line of research is proposed to find a broad spectrum antivirus against several members of of this subfamily.

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