

## RECENT ADVANCES IN INSILICO NANO DRUG DELIVERY AGAINST COVID- 19

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### Abstract

COVID-19 vaccines have been developed with unprecedented speed which would not have been possible without decades of fundamental research on delivery nanotechnology. Lipid-based nanoparticles and different types of nanoparticles have played a pivotal role in the success of COVID-19 vaccines and many other nanomedicines, such as Doxil® and Onpattro®, and have therefore been considered as the leader in nanoscale drug delivery systems through transdermally via skin lipid bilayer. Nanotechnology has shown excellent potential in its ability to fight a variety of healthcare problems. The nanomaterials' shows unique physicochemical properties and it controls Nano-bio interactions. Expanding their application to a wide-range of upstream and downstream approaches is necessary to fight COVID-19. At different stages of the virus-causing disease, nanotechnology could offer promising solutions, including a way to combat the large number of facilities caused by a late-stage cytokine storm. This study provides an overview of the recent advances regarding nanoparticles applications in vaccines, personal protective equipment, sterilization of contaminated environments, and diagnostic testing and cytokine reduction treatment in combating COVID 19.

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