

Molecular and Structural Advancements in SARS-CoV-2 and host interactions

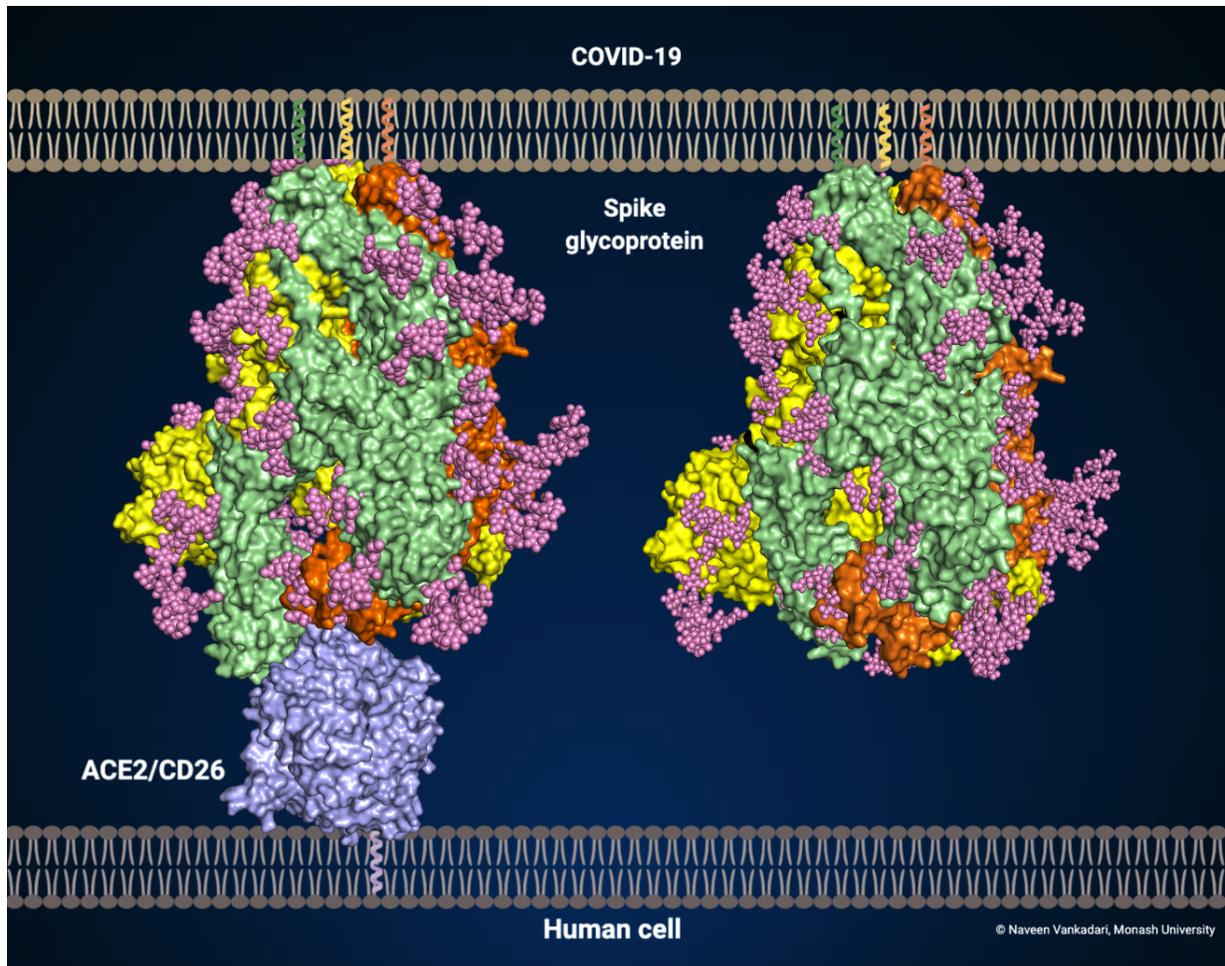
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Abstract

From the date of unravelling the sequence of pandemic phenomena causing novel coronavirus (named SARS-CoV-2/COVID-19), there have been limited but key molecular and structural advancements made a great impact in COVID 19 research and in the development of therapeutics in a right direction. The solving the structure of SARS-CoV-2 spike glycoprotein and its interactions with ACE2/CD26 are the two major findings were proposing the possible mode of SARS-CoV-2 entry into the host cell. Following unravelling the camouflaging glycan shield novel incorporation of Furin cleavage site underlines the distinct features of a novel coronavirus from the previous. Taking these key molecular and structural advancements, we developed the structural model of the SARS-CoV-2 interacting with human host proteins for adhesion and virulence for easy and scientific understanding for the general reader.



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Figure 1, COVID19 .tiff available at <https://authorea.com/users/305214/articles/436099-molecular-and-structural-advancements-in-sars-cov-2-and-host-interactions>