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TRANSPORT MECHANISM OF NANOPARTICLE-VIRUS INTERFACE IN SPACE

**Abstract**

Studies of the cellular uptake of nanoparticles and details of transport and tracking mechanisms in nanoparticles-virus interface is limited. The present study implements molecular dynamics simulation using the CHARMM-GUI Membrane Builder, CHARMM36 lipid force field and Elastic Network Model to study the transport of nanoparticle-virus interface. The nanoparticle-virus interface is computationally modelled based on past experimental studies implementing Terasaki Ramp. This study will give an insight and opportunities into developing new drug vehicles for the inhibition and eradication of virus in space environment.