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Nano science and nano engineering to combat sars-cov-2

The nanoscience and nanoengineering is playing a vital role and providing a useful insight into how the infecting species, the severe acute respiratory syndrome, the Corona virus 2 (SARS-Cov-2) is wreaking havoc on host human cells since the identification of the virus in December 2019. Vigorous research is on the cards all over the world in every avenue of medicine. Researchers are investigating to know how this nano-dimensioned virus spreads and infects human beings. The virus causes wide range of severe health issues. The scientists and researchers are trying desperately to know the cause and ultimately what drugs would be able to effectively kill this virus safely. Why Nanoscience? It is so because the electron microscopy has shown the diameter of the virus ranges between 50 nm to 140 nm. In addition to measuring the spherical size of the virus particle, it has also been confirmed that the length of the size tumours surrounding the outermost surface of SARS-CoV-2 can vary in length from 9 to 12 nm. The talk would centre on the above.

Biography

Professor Sujoy Kumar Saha is affiliated to Mechanical Engineering Department at the Indian Institute of Engineering Science and Technology Shibpur in India. Professor Saha has graduated with Bachelor's and Master's Degree from Jadavpur University, India and he has earned his PhD from Indian Institute of Technology Bombay. He went to Dalhousie University Canada for a year as a Visiting Scholar. Professor Saha has been a UNESCO Scholar at Abdus Salam International Centre for Theoretical Physics, Trieste, Italy tenable at ENEA, Rome. Professor Saha is a Member of the Scientific Research Honour Society, Sigma Xi, a Fellow of ASME and IMechE London. He is a Member of Scientific Council of ICHMT and Assembly of World Conferences on ExHFT.