

DBT-National Centre for Cell Science exploring vaccine candidate for COVID-19

The Department of Biotechnology's National Centre for Cell Science (DBT-NCCS) has initiated research on generation of a machine learning (ML) model based on patient datasets from Wuhan, Italy, USA and India with a view to explore vaccine candidates.

These mathematical model studies would enable identification of the viral sequences which have evolved with time. These diverse sequences could be utilized for designing peptides with different amino acid combinations. Once the combinations are prepared, these could be tested for their efficacy against the covid-19 virus.

It is anticipated that, since a combination of peptides identified from diverse viral sequences will be used, these peptides if found active, could act on diverse covid-19 variants and provide cross-protection even if small genetic variations are found.
