

"PAN-VALENT" VACCINE AGAINST NEXT WAVE OF COVID-19 AND ITS APPLICATIONS

Tech ID: 33401 / UC Case 2024-075-0

PATENT STATUS

Patent Pending

BRIEF DESCRIPTION

SARS-CoV-2(SC2) virus has been the cause of the most recent world-wide pandemic, COVID-19. With submission of over 16 million genomic sequences of its variants, it became the most sequenced genome of all known viruses. SARS-CoV-2 (SC2) is a positive-sense single-stranded RNA virus, which encodes about 27 proteins. So far tens of thousands of variants of SC2 with unique sequences, each appearing many times, have been identified.

A UCB researcher has created computational methods for designing pan-valent vaccines by examining, retrospectively, many variants together for their degree of sequence diversity, global demographic grouping, and differences in characteristics among the groups and others which may provide observational bases for understanding the various aspects of SC2 during its pandemic period and for predicting and preventing its possible future resurgence.

SUGGESTED USES

» vaccines

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INVENTORS

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OTHER INFORMATION

CATEGORIZED AS

» **Biotechnology**

» Health

» **Medical**

» Vaccines

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