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(54) Title: IMPROVED CORONAVIRUS VACCINE

(57) Abstract: The present disclosure provides a glycoengineered SARS-CoV-2 spike protein which is capable of eliciting an enhanced immune response relative to a native spike protein of SARS-CoV-2 and its variants. The glycoengineered spike protein exposes the glycosylation sites and at the same time preserves the tertiary structure of the spike protein. The present disclosure therefore provides improved immunogens, vaccines, and methods for better prevention and treatment of the emerging coronavirus infections.