

Learning from the past: development of safe and effective COVID-19 vaccines

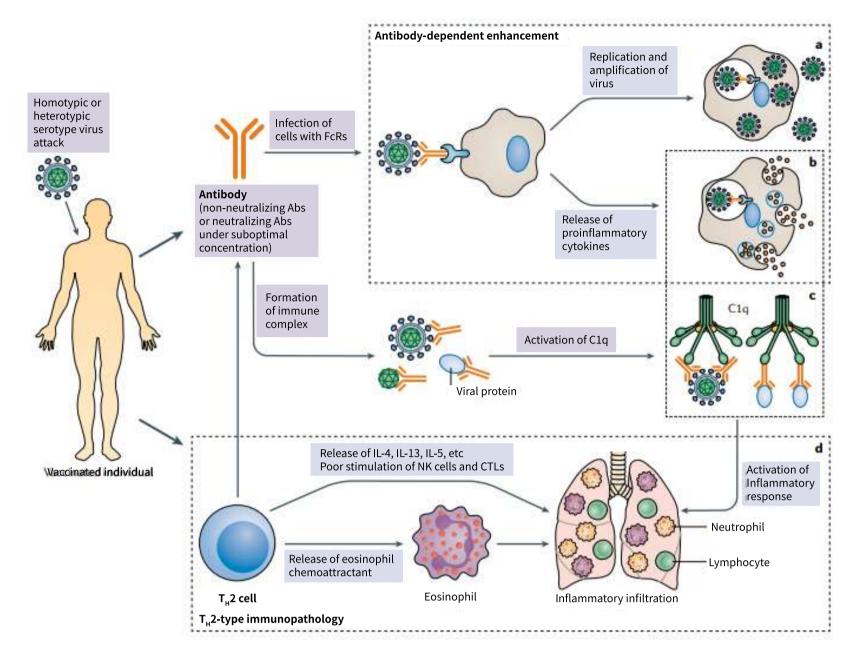
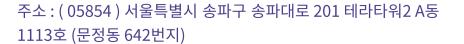


Fig. 1 | Mechanisms of vaccine-associated disease enhancement

The rapid spread of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has elicited an equally rapid response aiming to develop a COVID-19 vaccine. These efforts are encouraging; however, comprehensive efficacy and safety evaluations are essential in the development of a vaccine, and we can learn from previous vaccine development campaigns. In this Perspective, we summarize examples of vaccine-associated disease enhancement in the history of developing vaccines against respiratory syncytial virus, dengue virus, SARS-CoV and Middle East respiratory syndrome coronavirus, which highlight the importance of a robust safety and efficacy profile, and present recommendations for preclinical and clinical evaluation of COVID-19 vaccine candidates as well as for vaccine design and optimization.

SARS-CoV-2 Spike F Variants	rotein	***		CLICK Here >>>	
Spike Protein	Description	Source	Tag	Catalog #	
Spike Protein	D614G	HEK293	His	10587-CV	
	D614G	CHO	His	10620-CV	
Spike Protein	B.1.1.7 (UK variant)	HEK293	His	10748-CV	
	H69del, V70del, Y145del, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H	HEK293	GCN4- IZ, His	Preorder	
Spike Protein	B.1.1.7 (UK variant) + E484K	HEK293	GCN4- IZ, His	Preorder	



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