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(54) Title: IMPROVED CHIMERIC POLYPEPTIDES AND USES THEREOF

(57) Abstract: The present disclosure relates generally to chimeric polypeptides that comprise a microbial polypeptide (preferably (a) a virion surfaced exposed portion of an enveloped viral fusion protein or (b) a bacterial outer membrane polypeptide) and a heterologous structure-stabilizing moiety, and to complexes comprising those chimeric polypeptides. The present disclosure also relates to the use of these chimeric polypeptides and complexes thereof in compositions and methods for eliciting an immune response to a microbial polypeptide (preferably a fusion protein of an enveloped virus or a bacterial outer membrane polypeptide), or to respective complexes thereof and/or for treating or preventing related microbial infection (preferably an enveloped virus infection or a bacterial infection). Moreover, the disclosure further relates to compositions and methods for producing an antigen-binding molecule that specifically binds to such a microbial polypeptide or a complex thereof (preferably to an enveloped viral fusion protein or a complex thereof, or to a bacterial outer membrane polypeptide or a complex thereof).



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