HIV-1 Envgp140 trimers elicit neutralizing antibodies without efficient induction of conformational antibodies.

Currently, no vaccine for human immunodeficiency virus (HIV-1) provides protection from virus infection. One reason for this is likely the failure of vaccines to elicit antibodies that neutralize the virus. Antibodies directed against conformational epitopes, which are the most potent at neutralizing HIV, are often induced in low titers. Here, we describe a novel approach to vaccination involving HIV-1 gp140 trimers that elicit neutralizing antibodies without efficient induction of conformational antibodies.