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 the complex nature of the virus, which can evade the immune system. In particular, HIV-1 Env(gp120), the protein that mediates entry into cells, has multiple epitopes that are targets for antibodies. Neutralization of HIV-1 by antibodies is the basis of vaccine development, as it is the most effective way to prevent infection. However, neutralization does not appear to correlate with the elicitation of conformationally dependent antibodies.

**DOI:** 10.1016/j.vaccine.2006.03.063

**PubMed ID:** 16621193