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(54) **Title**: VACCINATION WITH INTERLEUKIN-4 ANTAGONISTS

(57) **Abstract**: The invention relates to methods for inducing an antigen-specific immune response, methods for increasing the avidity of immune cells for an antigen, methods for increasing the number of immune cells specific for an antigen, methods of preventing or treating infection and methods of vaccinating, the methods comprising administering an interleukin-4 receptor (LL-4R) antagonist in combination with an antigen, in particular HIV-1 antigens selected from a gag, pol, or env.