

results in persistent infection of nonhuman  
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# Repeated Intravaginal Inoculation with Cell-Associated Simian Immunodeficiency Virus Results in Persistent Infection of Nonhuman Primates FREE

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## Abstract

The goal of the present study was to develop a nonhuman primate model of intravaginal human immunodeficiency virus (HIV) transmission with cell-associated virus. Reproductively mature, cycling cynomolgus macaques with or without chemically induced, transient ulcers of the lower female reproductive tract repeatedly received challenge with a variable amount of *in vitro* simian immunodeficiency virus mac239–infected peripheral blood mononuclear cells. Persistent viremia was established with surprisingly few infectious lymphocytes containing physiologically relevant quantities of cell-associated virus. This model will be indispensable for the testing of vaccines and topical agents that are aimed toward the prevention of heterosexual transmission of HIV

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