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Mathematical Modeling of HIV/SIV Infection in Brain

Understanding HIV-1 replication and latency in different reservoirs is an ongoing challenge in the care of patients with HIV/AIDS. We used mathematical models to quantify the progression and predict the viral dynamics of HIV-1 and SIV infection within the brain during effective combination antiretroviral therapy (cART), and discuss the effects of the "shock-and-kill" strategy for eliminating latent reservoirs.