

1 **SUPPLEMENTARY MOVIE LEGENDS**

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3 **Movie S1.** A stack of 2D FIB-SEM images of an 8-hour co-culture of HIV-1 infected and  
4 uninfected Jurkat cells shows a cluster of cells with multiple cell contact zones.

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6 **Movie S2.** A stack of 2D FIB-SEM images of a 24-hour co-culture of HIV-1 IIIb-  
7 infected H9 cells and human fetal astrocytes reveals a synaptic region rich with HIV  
8 virions and membrane protrusions from both host and target cell.