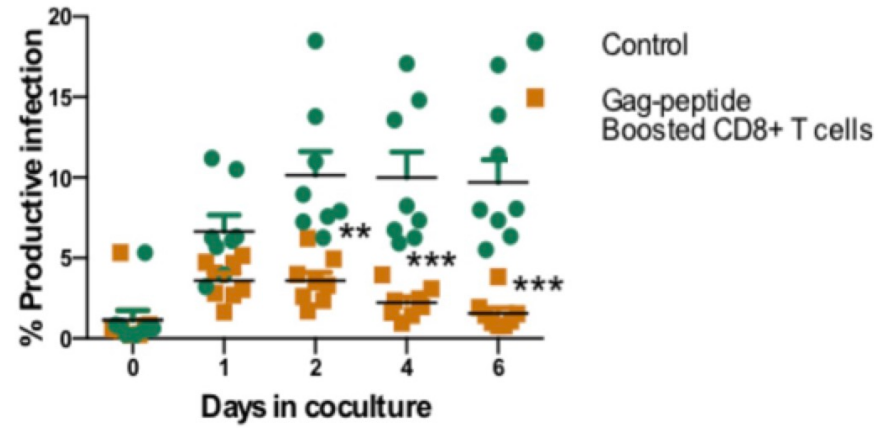
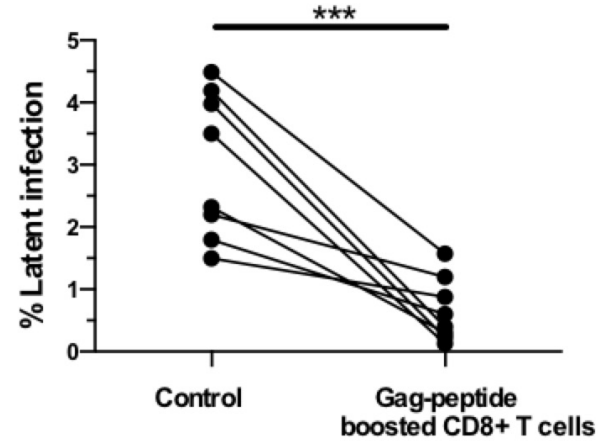
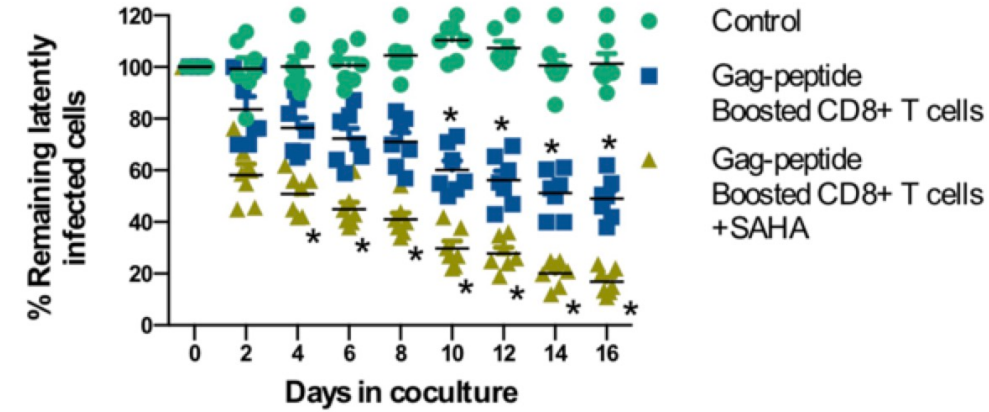


A**B****C**

(A) HIV-1 specific CD8⁺ T cells' killing of productively infected cells in eight patients. Patient-derived Bcl-2 transduced CD4⁺ T cells were infected with NL4-3- Δ vpr- Δ env- Δ EGFP pseudotyped with HIV-1 X4 envelope. Autologous CD8⁺ T cells prestimulated with Gag peptides mixture were added to the culture 6 hours post infection at the ratio of 1:1. Productive infection with (orange dots) or without (green dots) the presence of autologous CD8⁺ T cells was monitored over time by FACS. **P<0.01, ***P<0.01.

(B) HIV-1 specific CD8⁺ T cells prevent the establishment of HIV-1 latent. The remaining cells were stimulated with anti-CD3 and anti-CD28 antibodies for the measurement of latent infection in eight patients. ***P<0.001.

(C) HIV-1 specific CD8⁺ T cells' killing of latently infected cells. Prestimulated autologous CD8⁺ T cells were cocultured with SAHA-treated CD4⁺ T cells at the ratio of 1:1 in the first 8 days and we added newly stimulated CD8⁺ T cells at day 8, which changed the ratio to 1:2. The remaining latently infected cells with Gag-peptide boosted CD8⁺ T cells and SAHA (yellow dots) or Gag-peptide boosted CD8⁺ T cells alone (blue dots) or without CD8⁺ T cells (green dots) were detected over time by FACS. *P<0.05.