Bispecific antibodies promote natural killer cell-mediated elimination of the HIV reservoir

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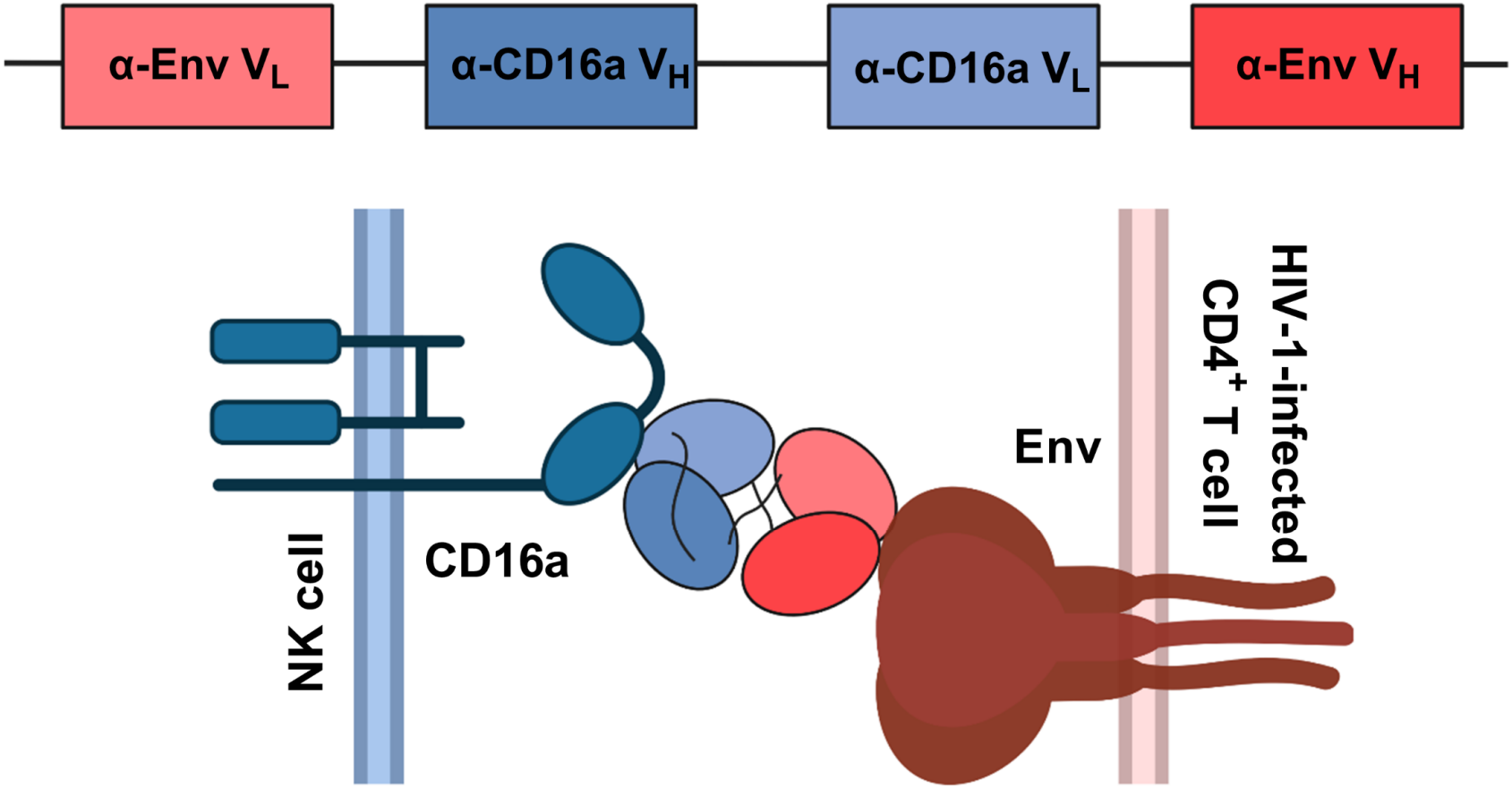
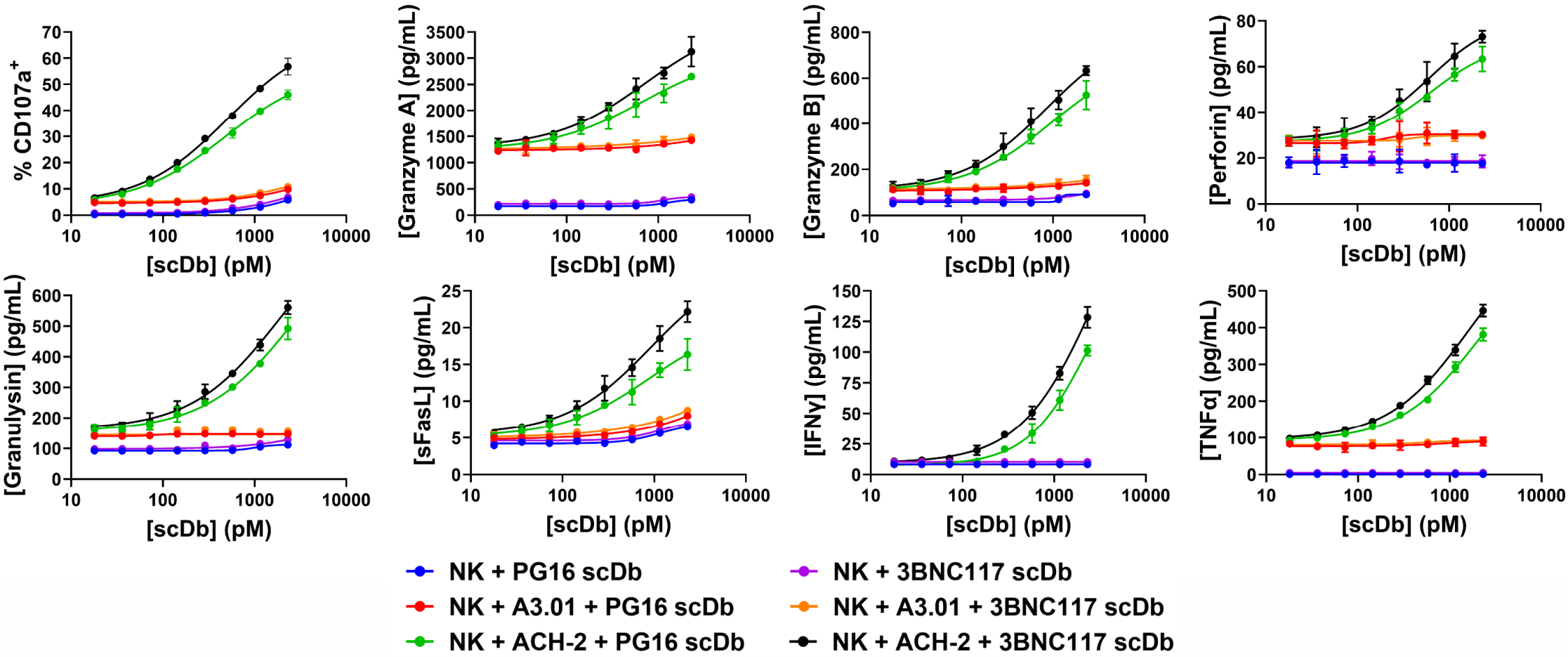
Disclosures: None

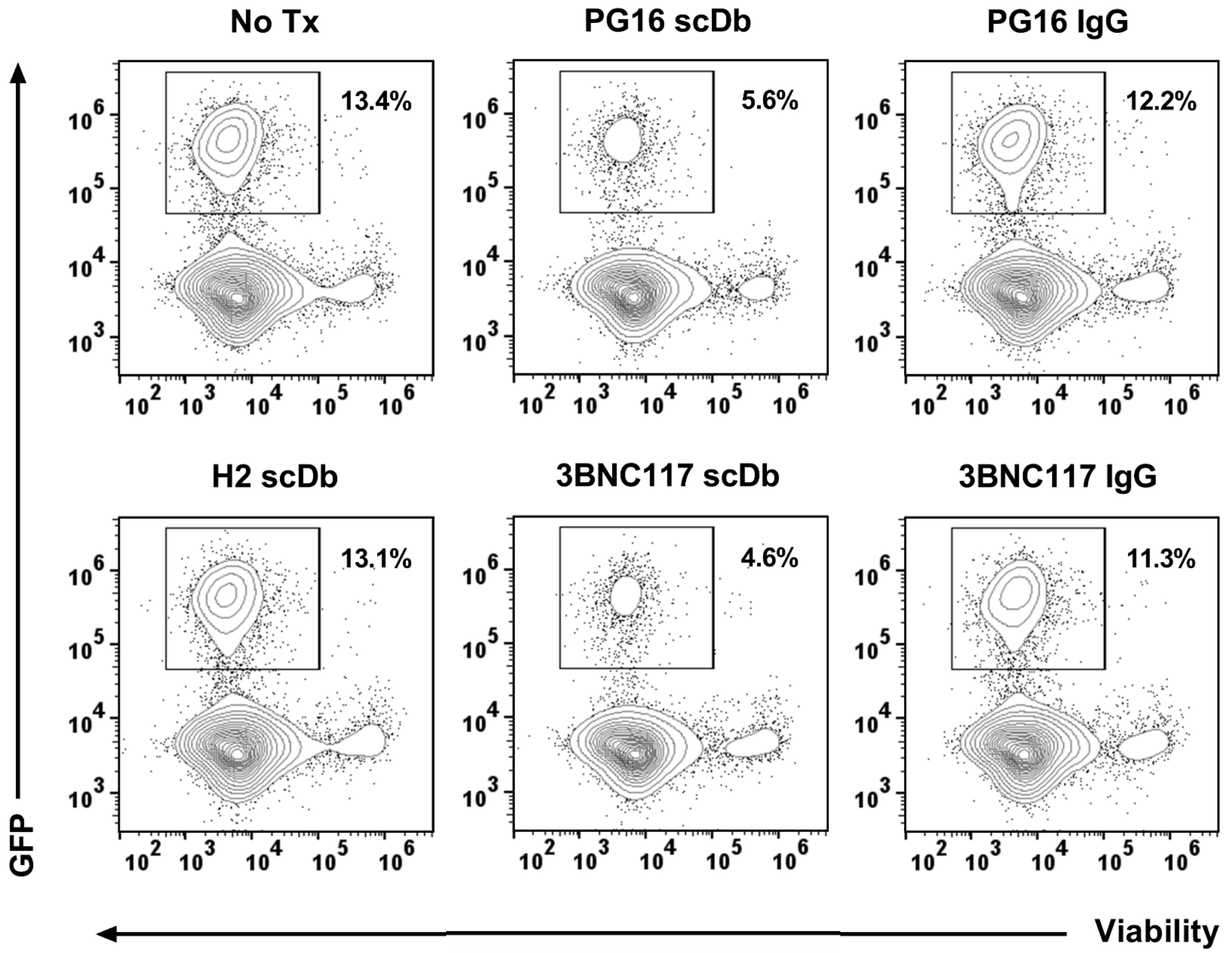
Bispecific antibodies for HIV reservoir reduction

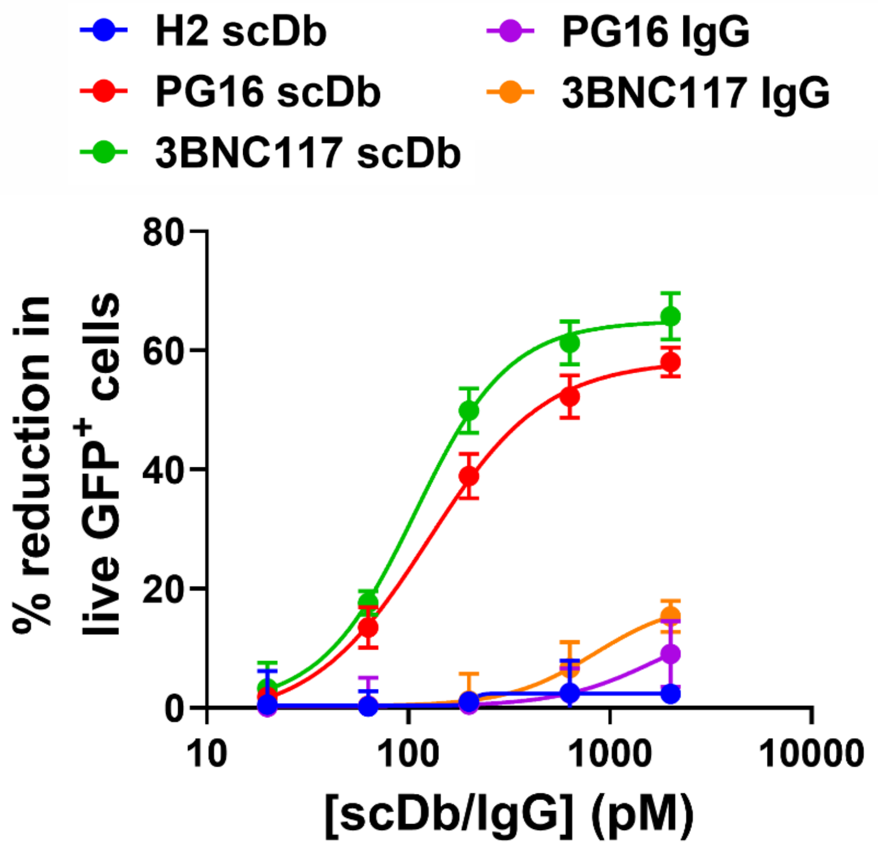


Bispecific antibodies induce HIV-specific and polyfunctional NK cell activation

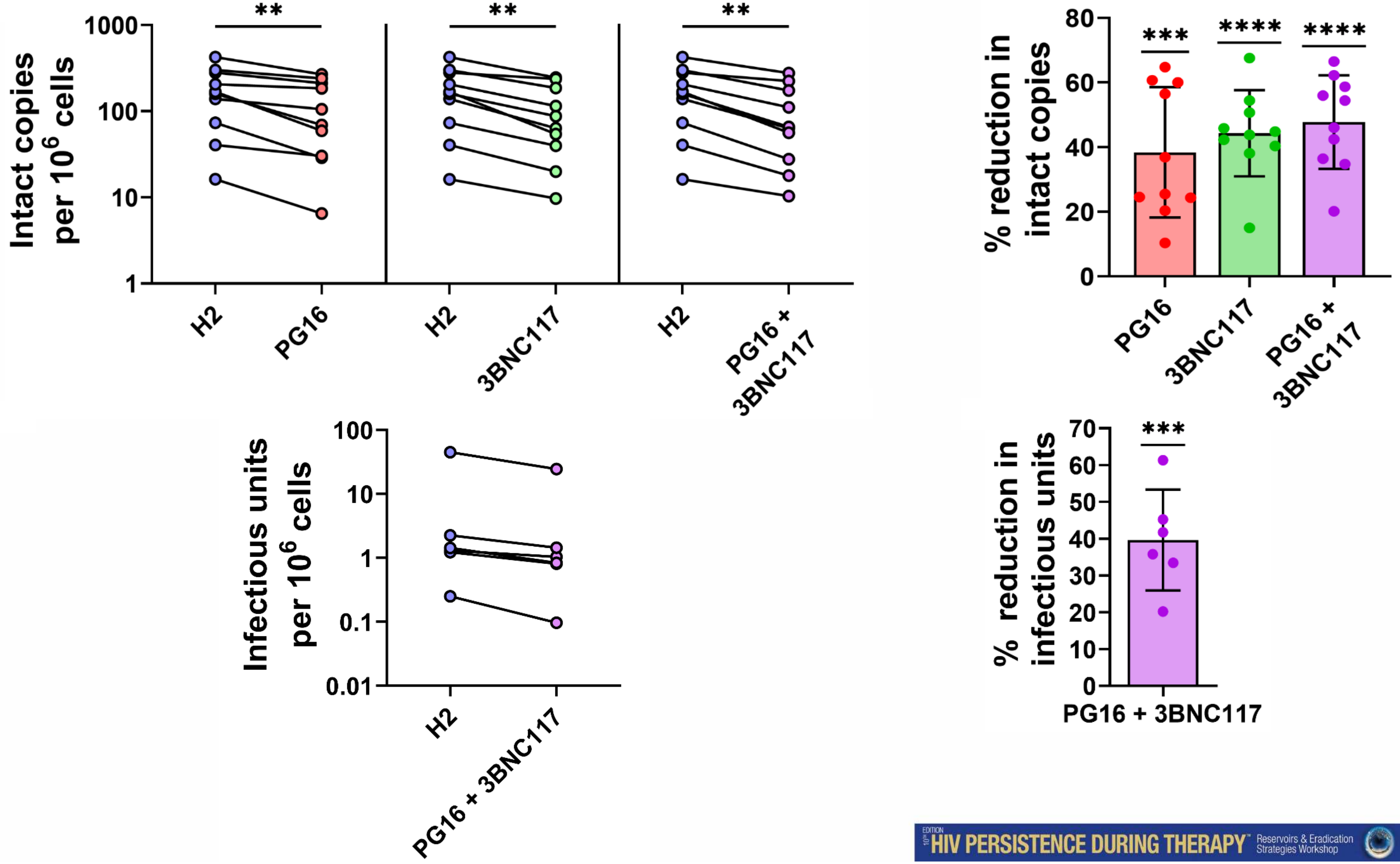


Bispecific antibodies promote NK cell-mediated elimination of HIV-infected CD4+ T cells

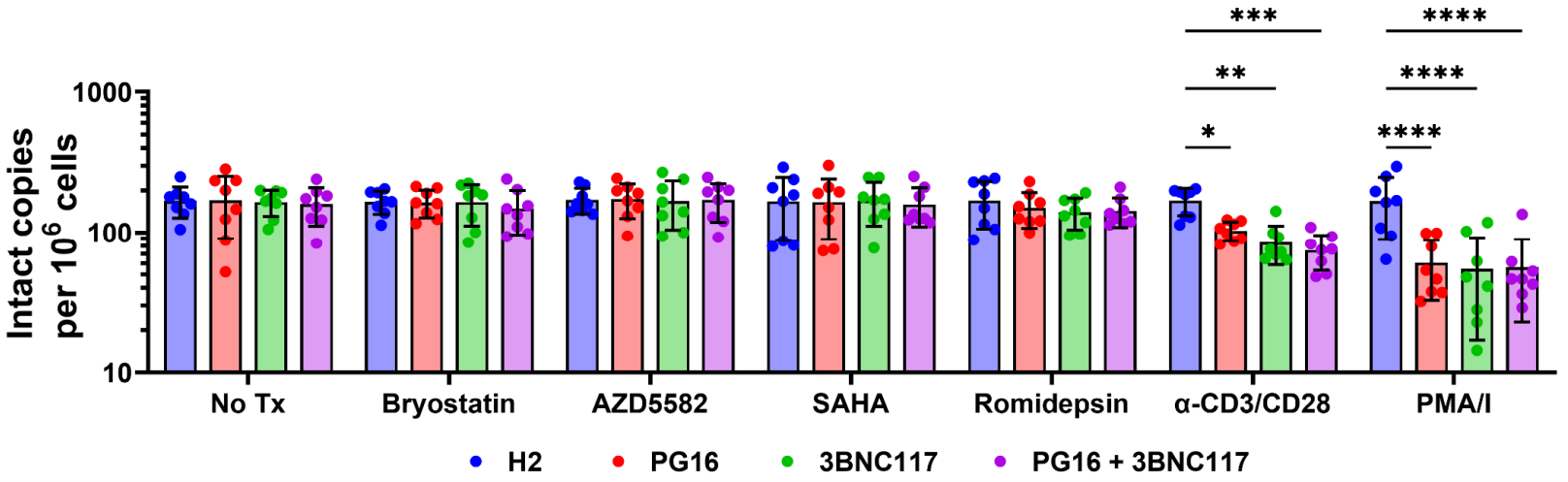


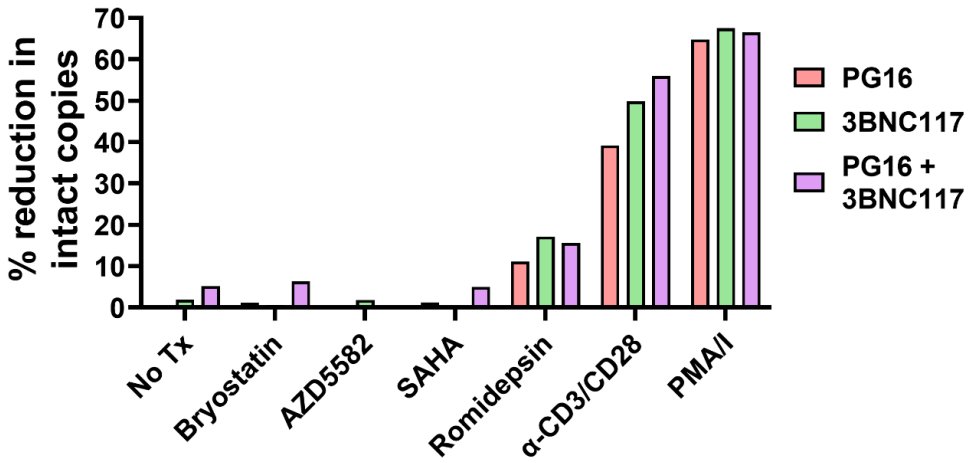


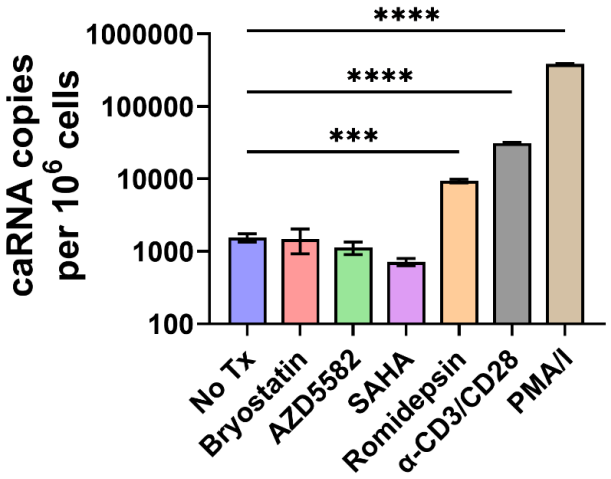
Bispecific antibodies eliminate intact and replication-competent reservoir cells



Bispecific antibody-promoted elimination of reservoir cells depends on robust latency reversal







Take home messages:

- Env-directed bispecific antibodies promote potent and specific activation of NK cells and elimination of HIV-infected cells
- Bispecific antibodies mediate reduction of the intact and replication-competent HIV reservoirs
- These reductions are dependent on efficient latency reversal and Env presentation

Next steps:

- Achieve a better mechanistic understanding of factors that allow infected cells to evade or resist bispecific antibody-promoted killing
- Evaluate bispecific antibody-mediated elimination of infected cells *in vivo* with nonhuman models of HIV infection

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Study Participants

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to find a cure

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