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CAR/CXCR5 T cells contact HIV vRNA+ cells in HIV-infected humanized DRAGA mice

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CONFLICTS OF INTEREST

No conflicts of interest

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CAR/CXCR5 T cells to treat humanized DRAGA mice



Hypothesis: Follicular targeted HIV-specific CAR-T cells will accumulate in lymphoid follicles, contact HIV producing cells and reduce HIV viral loads.

Experimental design



CAR T cells produced from humanized DRAGA splenocytes



CAR T cells were infected with HIV



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CAR T cells did not reduce HIV viral loads







COMMUNITY SUMMARY

- **Key question:** Can the humanized mouse model called "DRAGA" be used to evaluate HIV cellular immunotherapies?
- Key findings: The DRAGA mice are an excellent model, CAR T cells co-localized with HIV-producing cells in reservoir sites, however, many of them became infected with HIV.
- **Next step:** Our studies will be repeated using immunotherapeutic cells that are resistant to HIV infection.

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We are hiring at all levels in the Skinner lab.



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