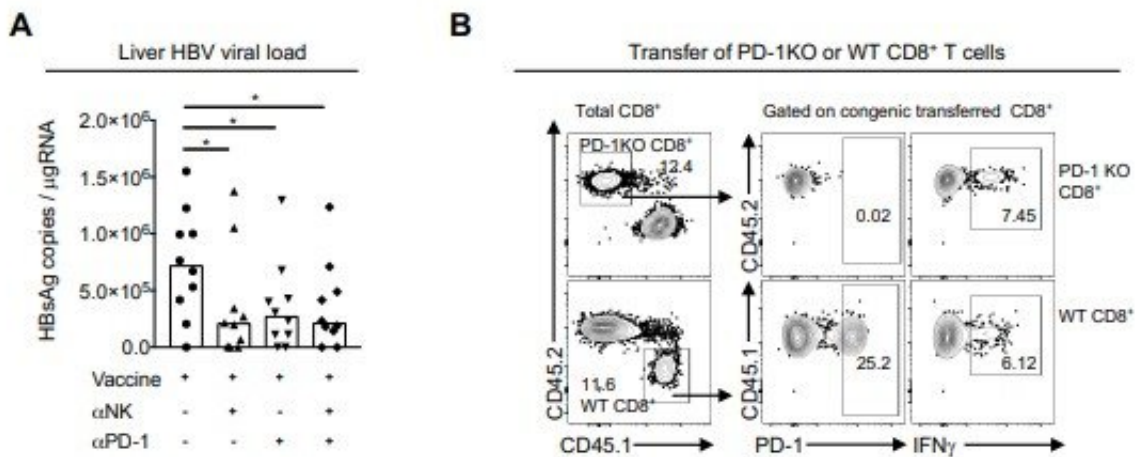


# When friendly forces become foes: Scientists blunt the impact of natural killer cells to improve vaccine effectiveness

July 25 2022, by Delthia Ricks



PD-1 dependent NK cell regulation of CD8<sup>+</sup>T-cells. C57BL/6 mice were infected with an adenoviral vector encoding the HBV genome and treated with anti-NK1.1 ( $\alpha$ NK) or isotype control antibody prior to therapeutic vaccination. Intrahepatic lymphocytes were harvested 14 days after immunization. (A) Quantitative real-time PCR analysis of HBsAg mRNA extracted from the liver of infected mice. (B) Representative plot of CD8<sup>+</sup>T-cells isolated from the spleen of CD45.2 PD-1KO or CD45.1 wild-type (WT) mice transferred to opposite congenic mouse recipient one day prior to therapeutic vaccination. Example of PD-1 expression and IFN $\gamma$  production on transferred PD-1KO and WT CD8<sup>+</sup> T-cells. \*, p

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