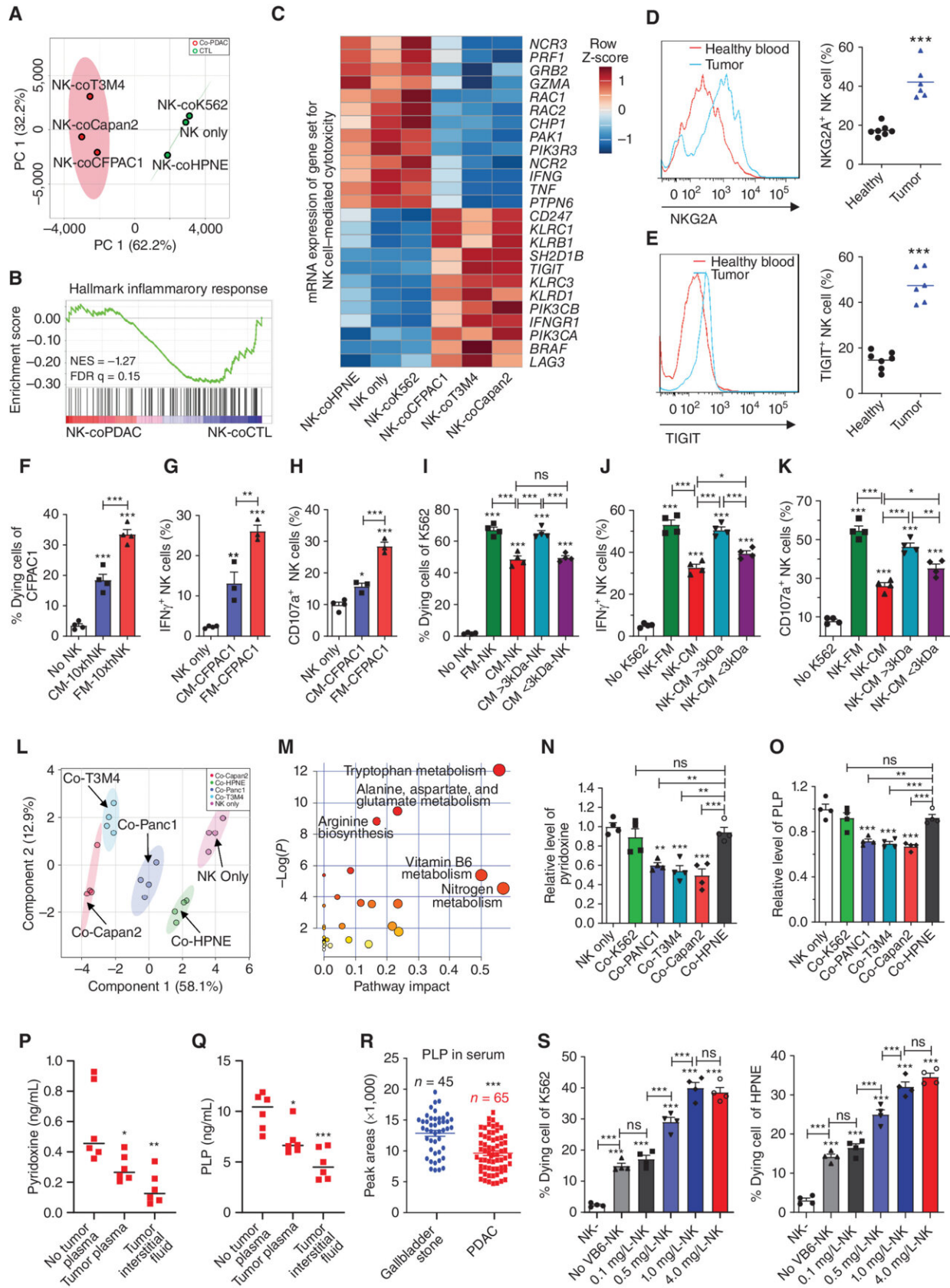


Researcher makes promising discoveries on role of vitamin B6 in pancreatic cancer

February 23 2024



PDAC cells create a vitamin B6-defective microenvironment that inhibits NK-cell activation. A, PCA plot of RNA-seq results of NK cells cocultured with HPNE, T3M4, CFPAC1, and Capan2. B, GSEA of inflammatory response genes based on RNA-seq data from NK cells were cocultured with PDAC cells, HPNE, or K562. C, Heat map of the mRNA expression of genes related to NK-cell cytotoxicity. D and E, Flow cytometry analysis showing the expression of NKG2A and TIGIT in NK (CD3⁻, NK1.1⁺) cells from KPC1245 orthotopic tumors or healthy mice blood. F, Dead cell percentage of CFPAC1 after coculture with NK cells under different conditions. CM, cells were cocultured in a CFPAC1-conditioned medium. FM, cells were cocultured in fresh medium. G and H, Expression of IFN γ and CD107a in NK cells from different conditions in F. I, Dying cell percentage of K562 upon coculturing with NK cells from different conditions. FM-NK, cells were cocultured in a fresh medium. CM-NK, cells were cocultured in the CFPAC1 CM. CM >3 kDa-NK, cells were cocultured in basal NK-cell medium with >3 kDa macromolecular components from CFPAC1 CM. CM

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