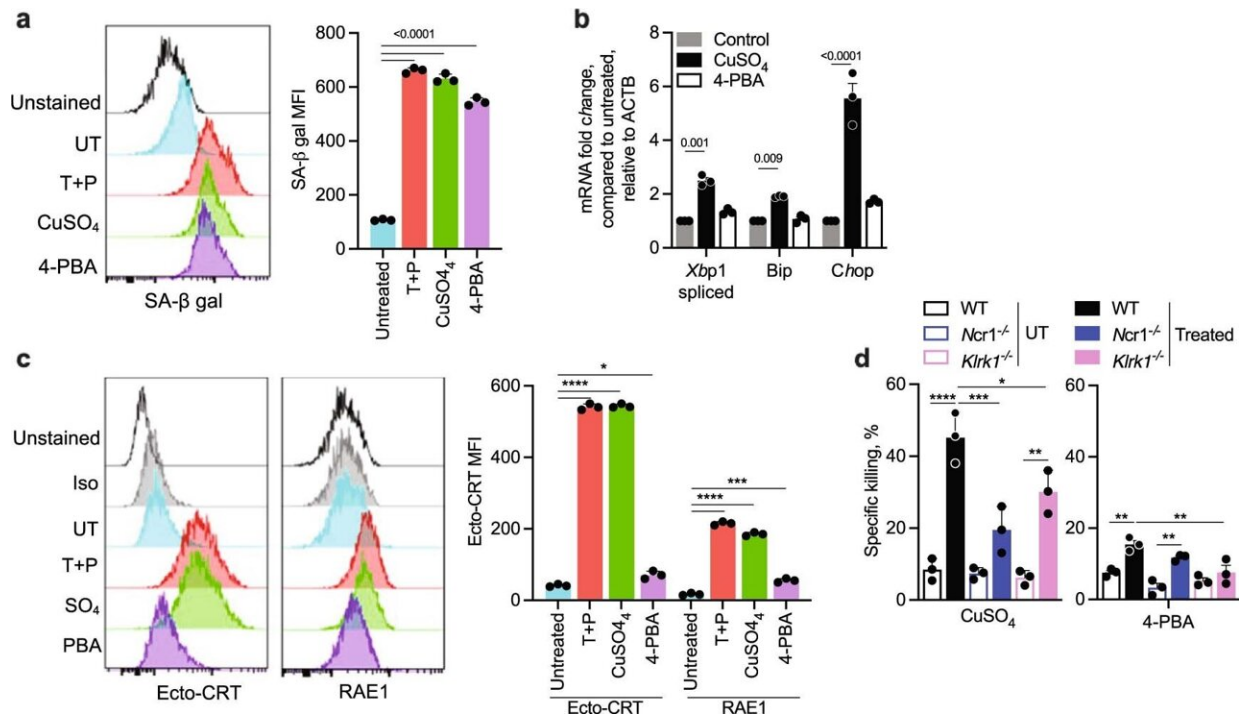


An unexpected journey reveals a potent way to attack tumors

May 15 2023, by Nancy Fliesler



Senescence inducer CuSO₄, which causes ER stress, activates NKp46- and NKG2D-dependent NK killing, but 4-PBA, which induces senescence without ER stress, does not. a, Representative flow cytometry histograms of β -galactosidase activity (SA- β gal) (left) and MFI of 3 samples (right) of KP that were untreated (UT) or treated with CuSO₄ or 4-PBA. b, ER stress, assessed by qRT-PCR of Xbp1 splicing and Bip and Chop mRNA, in untreated and CuSO₄ or 4-PBA treated KP (3 samples). c, Representative flow cytometry histograms of CRT and RAE1 expression on KP treated or not with CuSO₄ or 4-PBA (left); MFI of 3 samples (right). d, Killing of KP that were UT or treated with CuSO₄ or 4-PBA by splenic NK from WT, Ncr1^{-/-} or Klrk1^{-/-} mice (4 h ⁵¹Cr release,

E:T ratio 20:1). Bar graphs show mean \pm SEM of at least 3 independent experiments. Statistics by unpaired one-way ANOVA. P: *

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