



data were separated by tumor (T) and stroma (S) regions. The color gradient indicates the  $\log_2$ -transformed odds ratio (red, enrichment; blue, depletion), and sizes indicate the Bonferroni-corrected  $-\log_{10}(P \text{ value})$ . **g**, Cell type composition based on scRNA-seq data for  $CD45^-$  and  $CD45^+$  samples. Upper panels, absolute and relative cell type numbers; lower panels, box plot distributions of sample ranks with respect to tumor site. **h**, Cell type composition based on H&E with lymphocyte ranks in tumor and stroma. Panels are analogous to those in **g**. **i**, Cell type composition based on mpIF with  $CD8^+$  T cell ranks in tumor and stroma. Panels are analogous to those in **g**. For **c** and **g–i**, violin plots and box plots are shown as the median, top and bottom quartiles; whiskers correspond to  $1.5\times$  interquartile range (IQR). \**P*

Citation: Examining resistance to immunotherapy in ovarian cancer (2022, December 15) retrieved 30 June 2024 from <https://medicalxpress.com/news/2022-12-resistance-immunotherapy-ovarian-cancer.html>

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