

American Association for Cancer Research (AACR) 2019 Annual Meeting Highlights

Metastatic Melanoma Patient

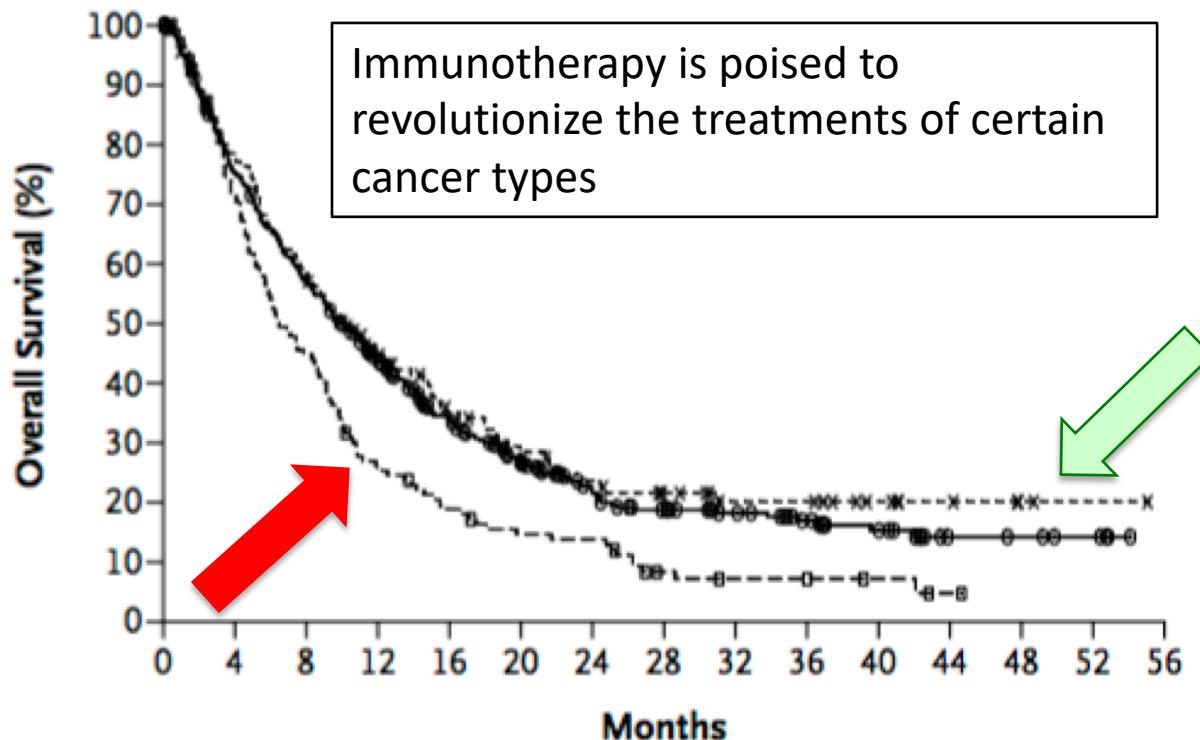
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Improved Survival with Ipilimumab in Patients with Metastatic Melanoma

— Ipi plus gp100 - - - Ipi - - - gp100
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A Overall Survival

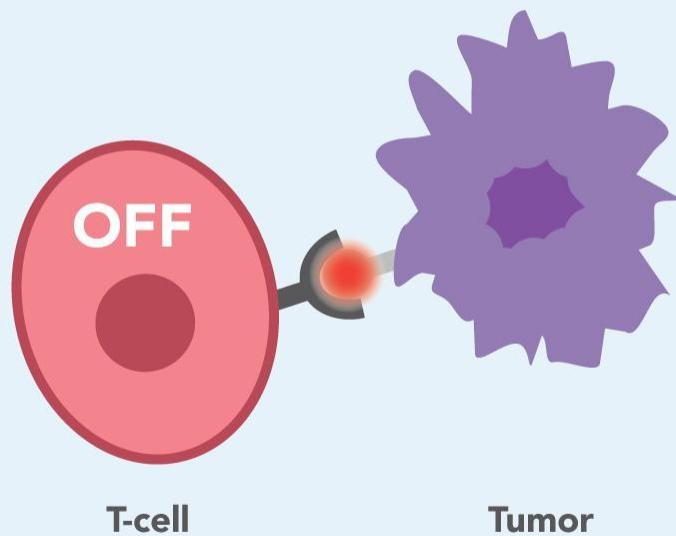


No. at Risk

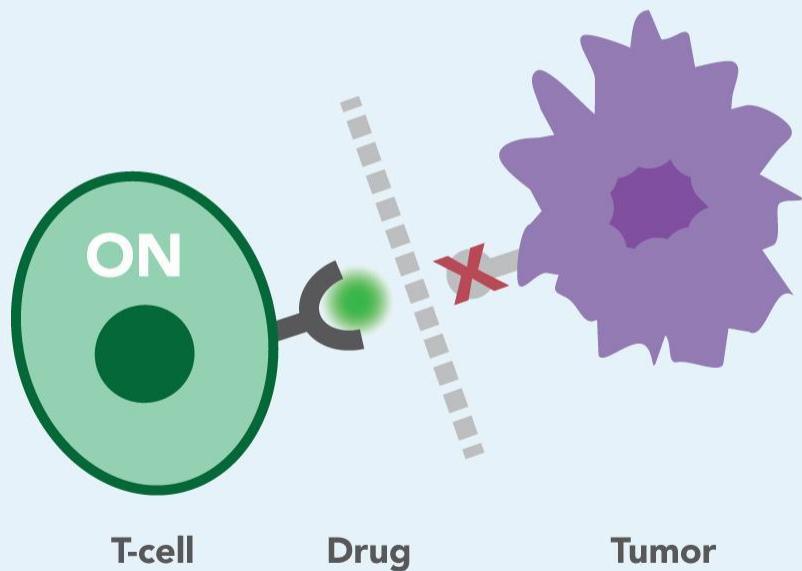
	403	297	223	163	115	81	54	42	33	24	17	7	6	4	0
Ipi plus gp100	403	297	223	163	115	81	54	42	33	24	17	7	6	4	0
Ipi	137	106	79	56	38	30	24	18	13	13	8	5	2	1	0
gp100	136	93	58	32	23	17	16	7	5	5	3	1	0	0	0

How Does Immunotherapy Work?

Tumor cells bind to T-cells
to deactivate them



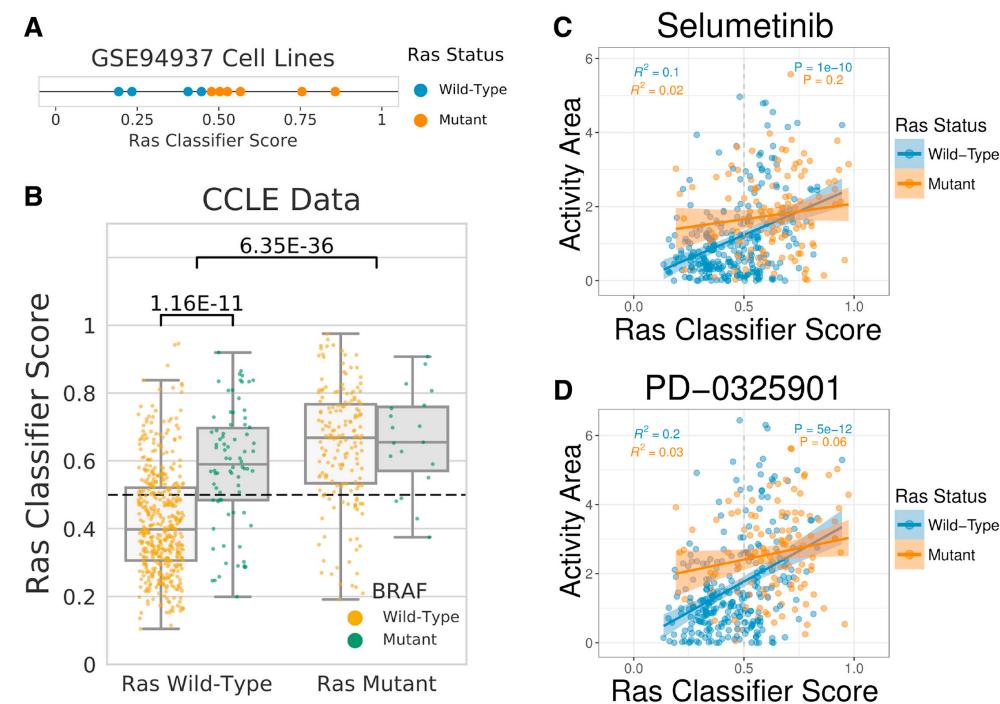
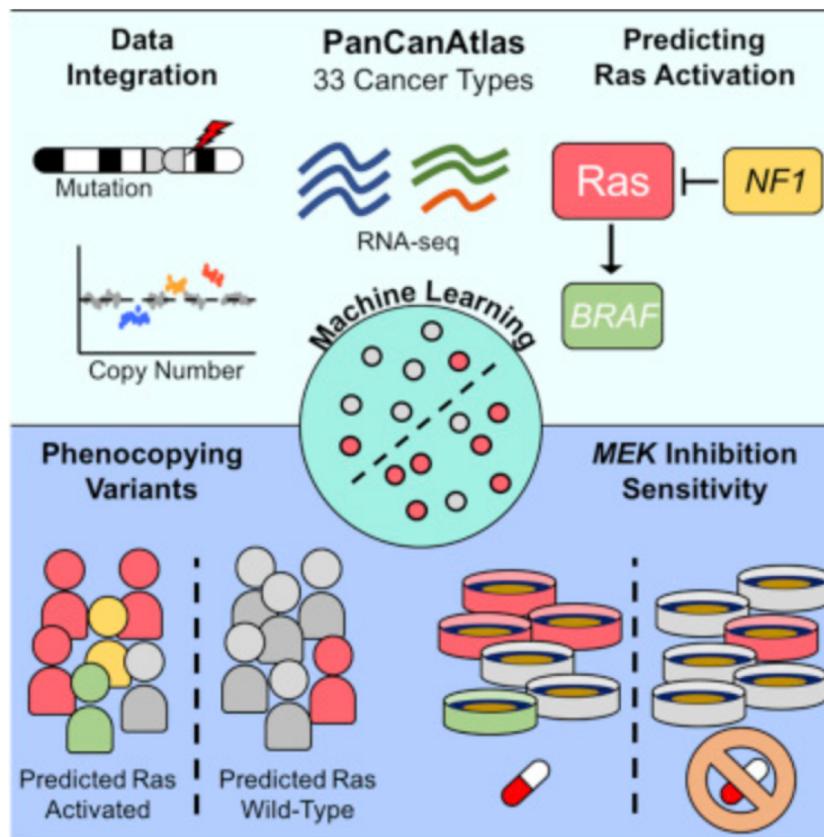
Immunotherapy drugs can block
tumor cells from deactivating T-cells



COLUMBIA UNIVERSITY
MEDICAL CENTER

Machine Learning Detects Pan-cancer Ras Pathway Activation in The Cancer Genome Atlas

Gregory P. Way • Francisco Sanchez-Vega • Konnor La • ... The Cancer Genome Atlas Research Network •
Yolanda Sanchez • Casey S. Greene 11 Show all authors • Show footnotes



Mammographic Breast Density Assessment Using Deep Learning: Clinical Implementation

Constance D. Lehman, Adam Yala, Tal Schuster, Brian Dontchos, Manisha Bahl, Kyle Swanson, Regina Barzilay

(4–10). In a study of 83 radiologists who assessed breast density, Sprague et al (4) found extreme variation in qualitative density assessment per the Breast Imaging Reporting and Data System (BI-RADS), with 6%–85% of mammograms assessed as either heterogeneously or extremely dense depending on radiologist interpretation.

Radiologist	Fatty	Scattered	Heterogeneous	Dense
DL Model	510 (69.7%)	220 (30.1%)	2 (0.3%)	0 (0.0%)
Fatty	87 (1.5%)	5204 (91.3%)	411 (7.2%)	0 (0.0%)
Scattered	2 (0.0%)	197 (4.9%)	3804 (94.2%)	36 (0.9%)
Heterogeneous	0 (0.0%)	2 (0.7%)	77 (26.6%)	211 (72.8%)

