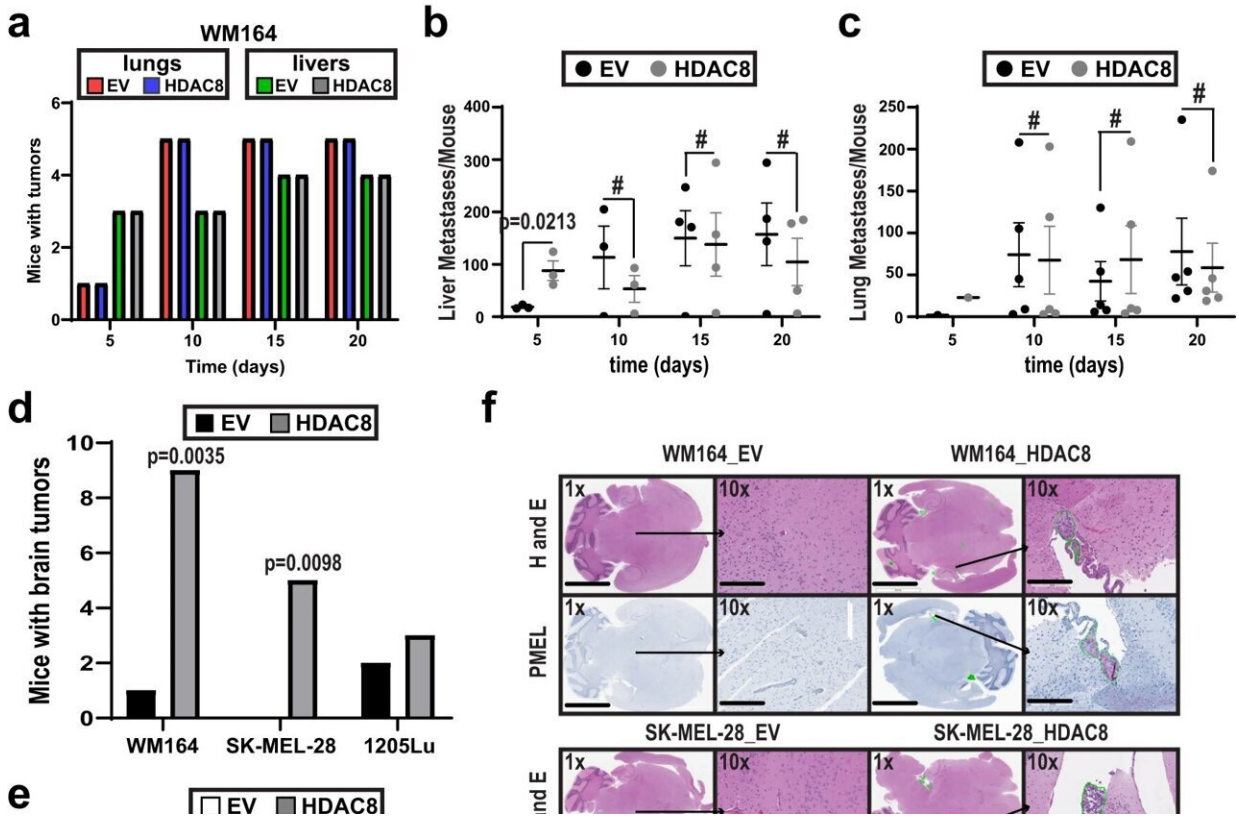
Researchers identify cell signaling pathways controlling melanoma cell metastasis to the brain

November 29 2023



HDAC8 increases the establishment of melanoma brain metastases. **a–c** HDAC8 and EV expressing WM164 cells were introduced into NOD.CB17-Prkdcscid/J mice by intracardiac injection. **a** Tumors were allowed to establish for indicated time points with numbers of metastases measured in H&E sections of the liver and lung. Number of metastases present in the (**b**) liver and (**c**) lungs were calculated using Imagescope. Significance in (**b**) and (**c**) was determined by a

one-way ANOVA followed by a 2-tailed post hoc *t* test with *=*p* 0.05. In (**b**), day 5 *p* = .0213. Data are presented as mean values of 5 mice ±SD. **d–f** HDAC8 and EV expressing WM164, SK-MEL-28 and 1205Lu cells were introduced into NOD.CB17-Prkdcscid/J mice by intracardiac injection and allowed to incubate for 14 days. **d** Number of mice with brain tumors were counted for each condition using Imagescope software. Significance in (**d**) was determined by a 2-sided chi-squared test on an n of 20 mice in WM164 cells and an n of 10 mice in SK-MEL-28 cells with **=*p*