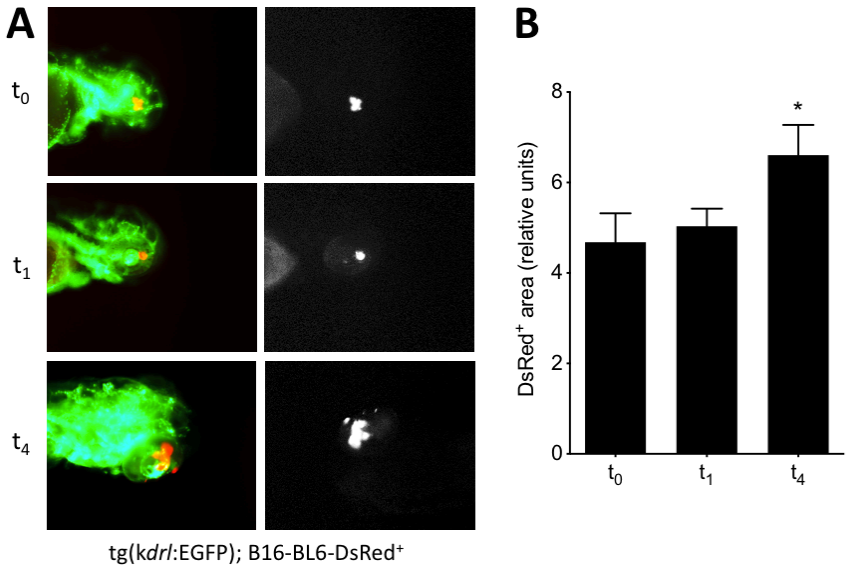


**Figure S1.** Fluorescence-based quantification of the growth of murine melanoma B16-BL6-DsRed$^+$ xenografts. Murine melanoma B16-BL6-DsRed$^+$ cells (100 cells/embryo) were injected in the posterior side of the developing eye of transgenic Tg(*kdrl*:EGFP) zebrafish embryos at 48 hpf. **A)** Maximum intensity projection of the z-stacks of B16-BL6-DsRed$^+$ cell grafts assessed at 1 h ($t_0$), 1 day ($t_1$) and 4 days ($t_4$) post implantation. **B)** DsRed$^+$ tumor area was quantified by FIJI software at $t_0$, $t_1$ and $t_4$ post implantation (n=8). *$p < 0.05$ *vs* $t_0$, ANOVA.

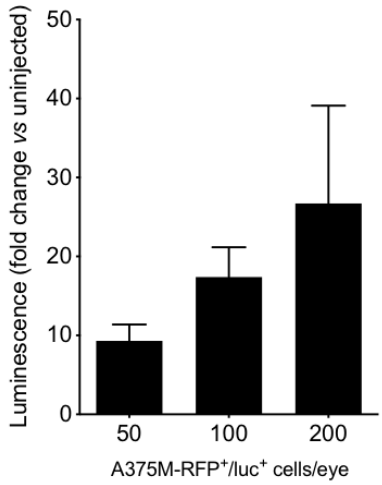


**Figure S2.** Luciferase-based quantification of human melanoma A375M-RFP$^+$/luc$^+$ xenografts. Human melanoma A375M-RFP$^+$/luc$^+$ cells (50, 100, and 200 cells/embryo) were injected in the posterior side of the developing eye of transgenic Tg(*kdrl*:EGFP) zebrafish embryos at 48 hpf. One h after grafting, eyes were enucleated and A375M-RFP$^+$/luc$^+$ bioluminescence signal was quantified and compared to basal levels measured in non-injected contralateral eyes.

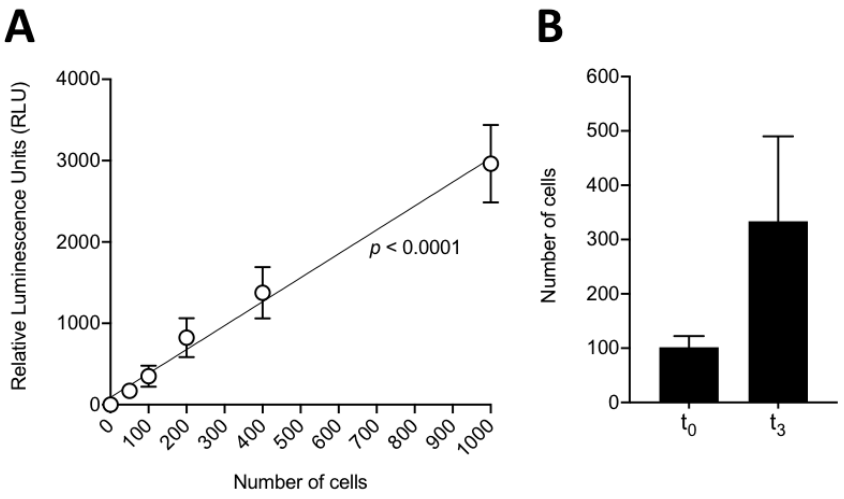


**Figure S3.** Luciferase-based quantification of murine melanoma B16-LS9-luc+ xenografts. **(A)** Murine melanoma B16-LS9-luc+ cells (0, 50, 100, 200, 400, and 1000 cells) were added to non-injected embryos and then the bioluminescence signal in the lysates was quantified. The values, subtracted of the blank, were plotted to obtain a calibration curve. **(B)** B16-LS9-luc+ cells were injected in the posterior side of the developing eye of transgenic Tg(*kdrl*:EGFP) zebrafish embryos at 48 hpf. The cell luminescence signal was quantified at $t_0$ and $t_3$ in the lysates of the whole embryos and the number of cells extrapolated from the calibration curve. Data are mean ± SD (n=21 and 26 for $t_0$ and $t_3$, respectively).

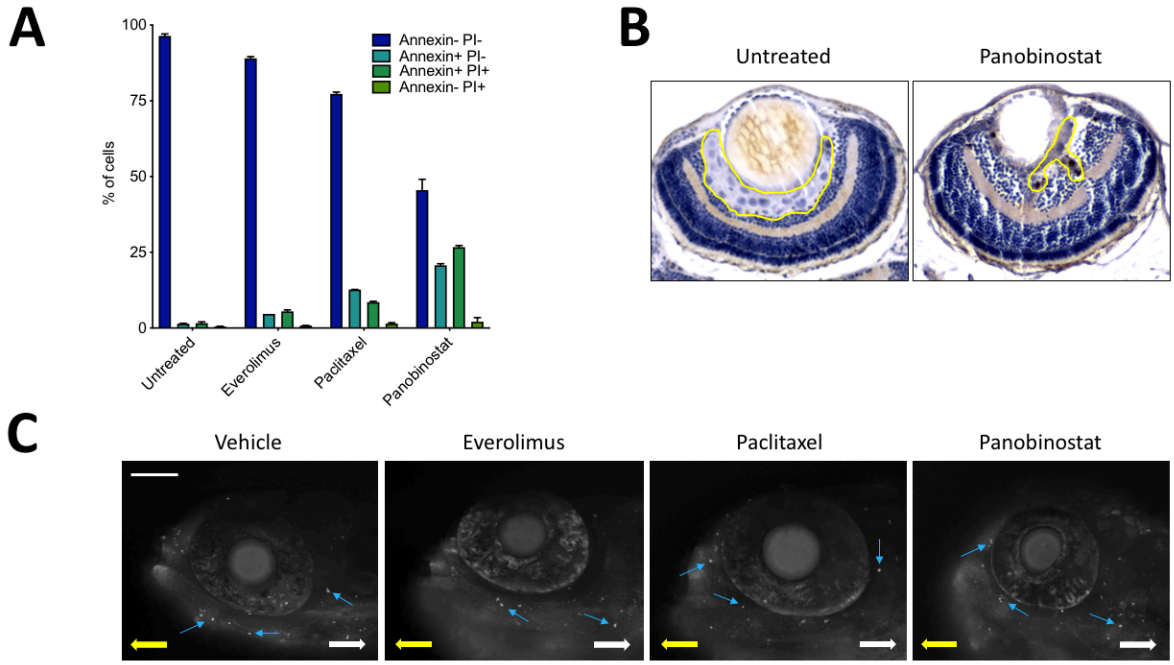


**Figure S4.** Everolimus, paclitaxel and panobinostat effect on cell apoptosis. (**A**) Cytofluorimetric analysis of apoptosis induced in 92.1-RFP+/luc+ cells after 72 h of treatment with 60 nM everolimus, 140 nM paclitaxel, or 20 nM panobinostat. (**B**) Immunohistochemical analysis of zebrafish embryo eyes at 4 days ($t_4$) after orthotopic injection of 92.1-RFP+/luc+ cells. Cleaved caspase 3 is detected in brown. Tumor area is highlighted in yellow. **(C)** 0.4 pmoles/embryo of everolimus, paclitaxel, panobinostat or the corresponding volume of DMSO were injected in the eye of zebrafish embryos. Apoptosis was evaluated at $t_4$ by acridine orange staining. White and yellow arrows indicate embryo orientation: white arrow, posterior side; yellow arrow, anterior side. Blue arrows show some representative zebrafish embryo apoptotic cells positive to the staining. Scale bar: 100 µm.