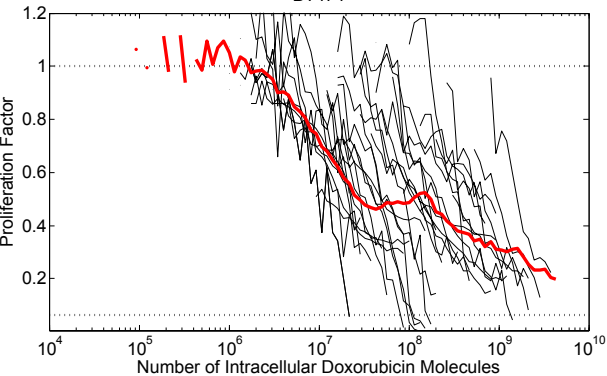


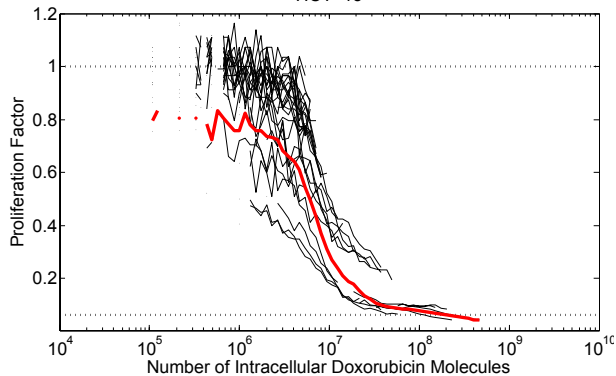
Supplemental Table 1. Conversion of Fluorescence Signal to Number of Intracellular Doxorubicin Molecules

Cell Line	Tras-647 Cell Signal (Treated MFU – untreated MFU)	HER2 Expression Level (# of HER2 receptors per cell)	Tras-Dox Cell Signal (Treated MFU – untreated MFU)	Number of Intracellular Doxorubicin Molecules per MFU
BT-474	1.2×10^6	2.34×10^6	70.0	6.7×10^4
N87	1.4×10^6	2.67×10^6	40.2	13.3×10^4
SK-BR-3	1.1×10^6	2.23×10^6	45.0	9.9×10^4
Average				$10.0 \times 10^4 \pm 1.9 \times 10^4$

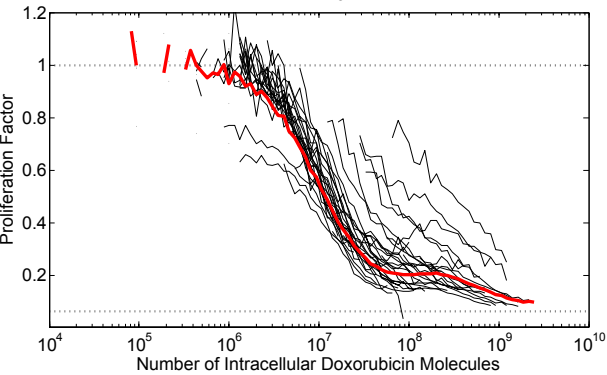
BT474



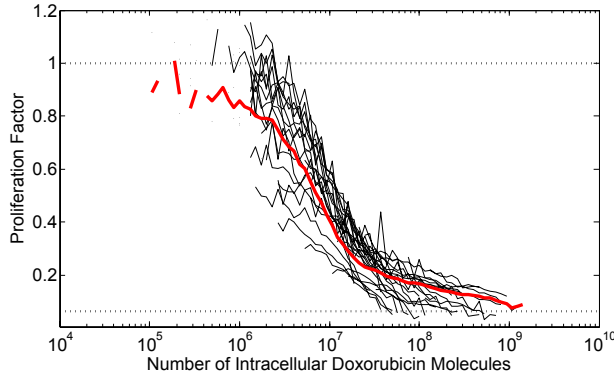
HCT-15



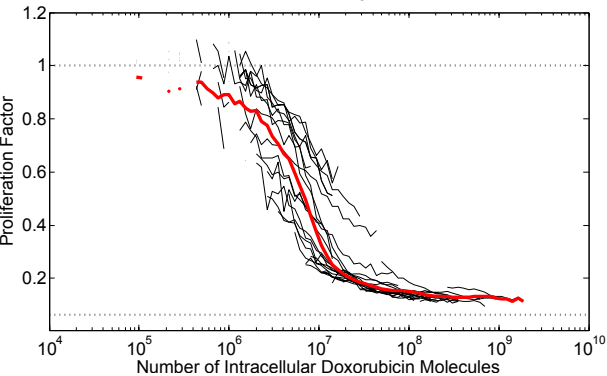
HT-29



IGrov-1



MDA-MB-231



T-47D

