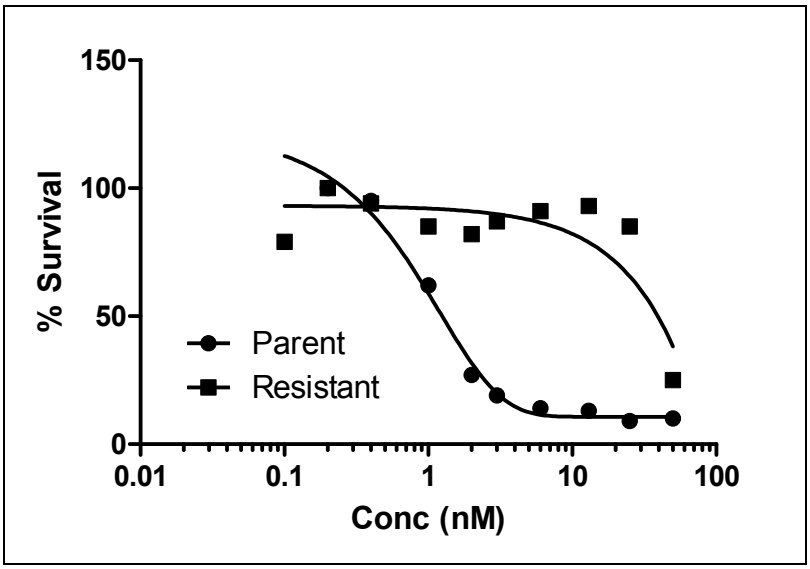
Supplementary Figure 1:

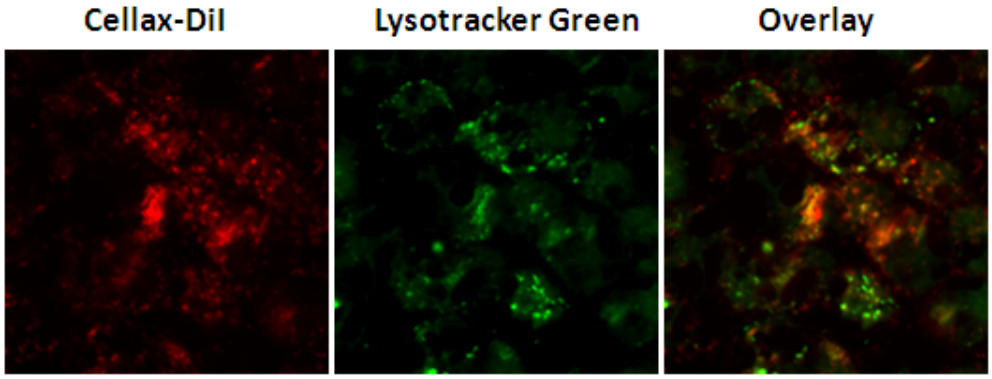
Viability assay for the resistant MDA-MB-231 tumor cells:

Five thousand resistant MDA-MB-231 tumor cells per well was plated in a 96 well plate. After 24 h of incubation, cells were treated with different concentrations of DTX. After 72 h of treatment, viability was assayed by the XTT assay. Briefly, a 1 mg/mL solution of XTT reagent and 1.53 mg/mL solution of phenazine methylsulfate in water were prepared, and 5 µL of phenazine methylsulfate was added to each mL of the XTT solution. Twenty-five µL of the mixture solution was added to each well, the culture plates were incubated for 2 h at 37 °C, and absorbance at 480 nm was then measured. Wells treated with media (or 0.1% DMSO media) represent 100% viable cultures, and wells containing no cells represent background signal.



IC50 of DTX was calculated as 1.2 nM against the native cell line and 30 nM against the resistant variety.

Supplementary Figure 2:



EMT-6 cells grown on glass coverslips were treated with Cellax particles (500 µg/mL DiI content) and after 4 h of incubation, the cells were washed 2X with PBS and incubated for an additional 1 h with 100 nM LysoTracker green. The cells were rinsed 3X with PBS, mounted on glass slides with glycerol and immediately imaged on a Fluoview Olympus confocal microscope. Magnification = 200X.