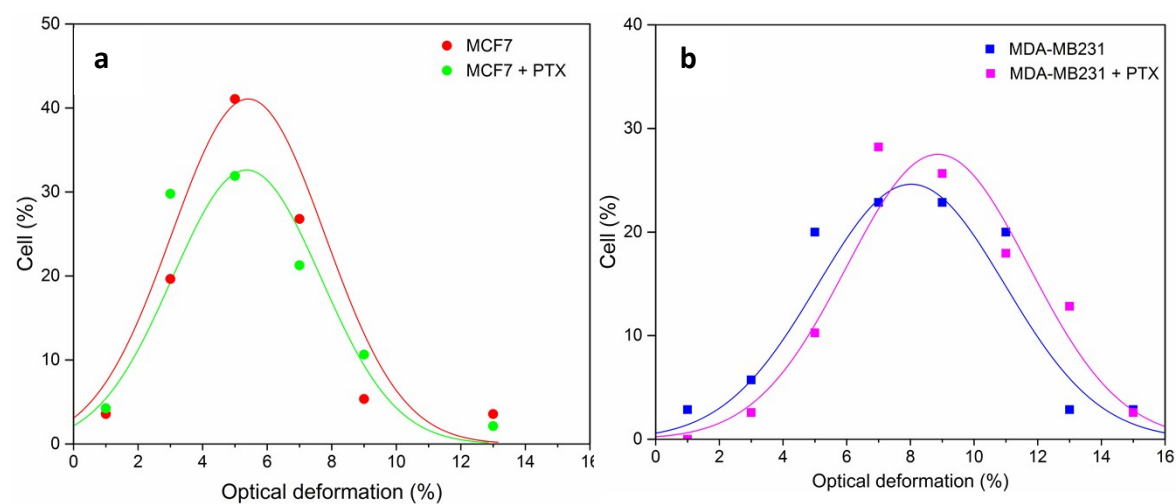


**Table S.1** Average diameter of the untreated and drug-exposed tumor cells.

Treatment Cell lines	Average cell diameter $\pm$ SD ( $\mu\text{M}$ )				
	Control	PTX	CA-4	Nocodazole-low concentration	Nocodazole-high concentration
MCF7	15.8 $\pm$ 2,3	16.1 $\pm$ 2.1	16.1 $\pm$ 2.4	15.7 $\pm$ 2.2	16.4 $\pm$ 2.1
MDA-MB231	16.2 $\pm$ 1,8	16.4 $\pm$ 1.8	16.4 $\pm$ 2.0	15.8 $\pm$ 2.5	16.6 $\pm$ 1.9
A375P	18.2 $\pm$ 1,6	18.0 $\pm$ 1.7	17.9 $\pm$ 1.3	18.7 $\pm$ 1.5	17.7 $\pm$ 1.9
A375MC2	18.2 $\pm$ 1.7	18.1 $\pm$ 1.5	17.9 $\pm$ 1.4	18.8 $\pm$ 1.8	17.9 $\pm$ 2.0

**Optical Stretching results for the PTX treated cells**



**Figure S2.** Optical deformation of (a) MCF7 and PTX treated MCF7 cells, and (b) MDA-MB231 and PTX treated MDA-MB231 cells.