**Supplementary data**

**Fig. S1.** Long term effects of cisplatin on the nuclear and cytoplasmic surface roughness. After the B16-F10 cells were treated with cisplatin (3 μM) for several time intervals (0, 24 h, 48 h and 72h), ultrastructures of the cytoplasm (A) and nucleus (B) were determined from the AFM topographical images. The changes in the RMS roughness of the cytoplasmic region are 36 ± 3.5, 41 ± 4.8, 49 ± 5.3, and 55 ± 7.8 nm at 0, 24 h, 48 h, and 72 h of cisplatin treatment, respectively (C). For nuclear region, the RMS values revealed a downward trend (27 ± 5.6, 23 ± 3.1 and 22 ± 3.6 nm at 0, 24 h, 48 h, and 72 h of cisplatin treatment, respectively) as comparing to control (33 ± 5.2 nm). (D). Image size in (A) and (B) is 5 × 5 μm². The height values were obtained from at least 10 cells and the bars in (C) and (D) represent the mean ± S.D.; p <0.005.