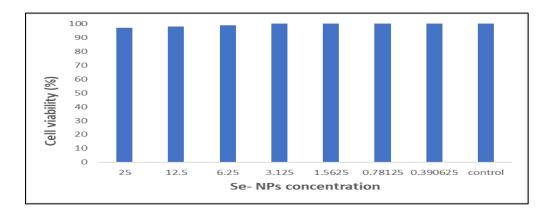
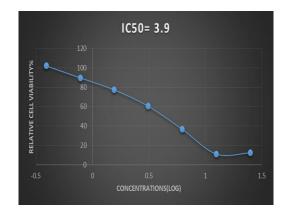


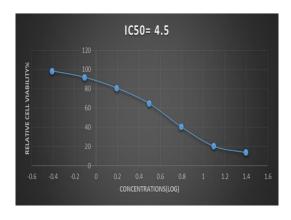
Supplementary Figure (1 ): MTT cell proliferation assay of SeNP-treated cells of HEpG2 cell line for 48h. Each value is the mean  $\pm$  SD ( p < 0.05). One-way ANOVA test. Comparison with control, \*\*\* p-level < 0.001.



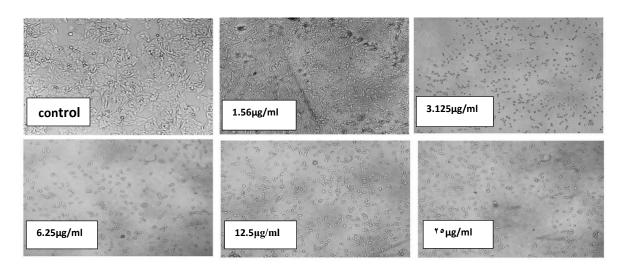
Supplementary Figure (2): Percentage of cells viability of normal cell line ( HEK293) treated with SeNPs.



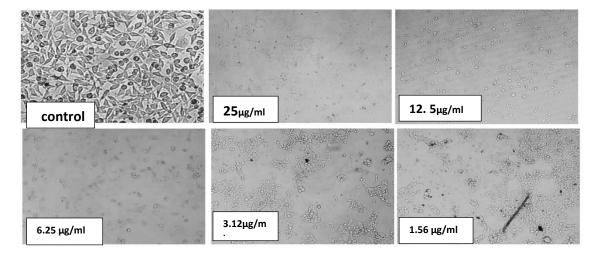
Supplementary Figure (3): IC50 values for SeNPs treated



Supplementary Figure (4). IC50 values for SeNPs treated HepG2 SW480 cancer cell line. cancer cell line



Supplementary Figure 5: Morphological changes following 48hrs. treatments with different concentrations of Se NPs in human cancer (WS480) cell lines



Supplementary Figure 6: Morphological changes following 48hrs. treatments with different concentrations of Se NPs in human cancer (HepG2)