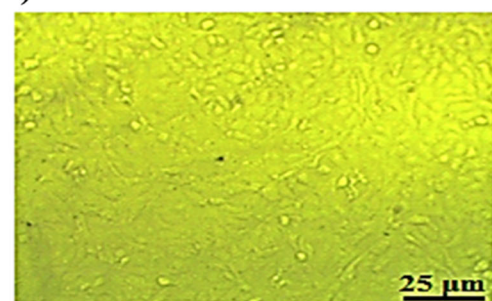
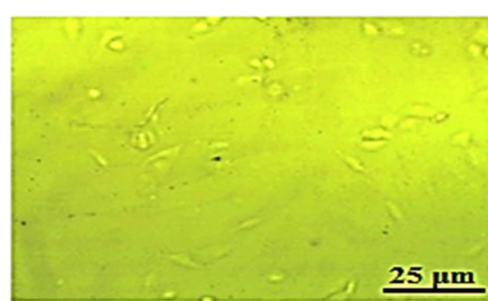


I) MDA-MB-231

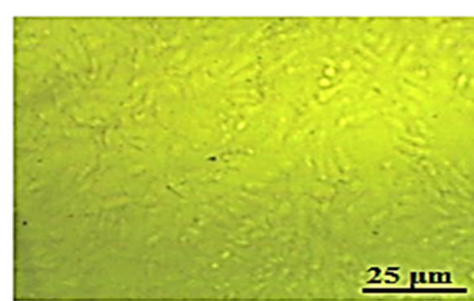
a) Eb



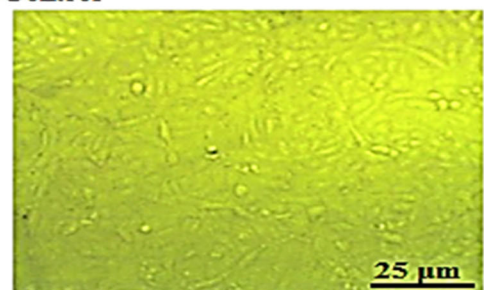
Control



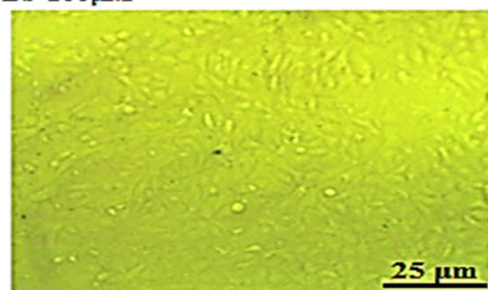
Eb 100 μM



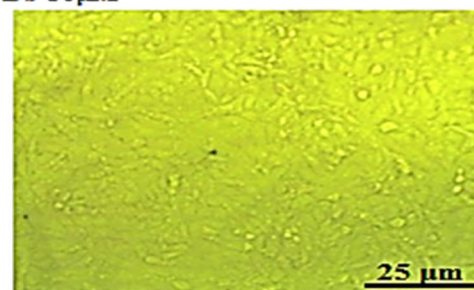
Eb 50 μM



Eb 25 μM

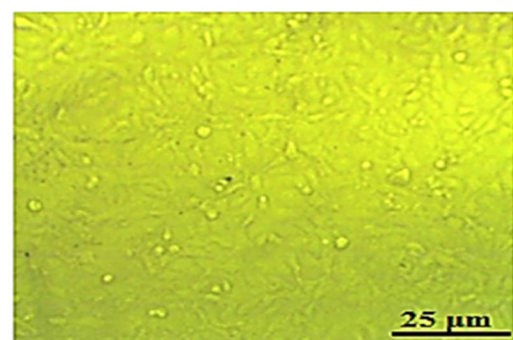


Eb 12.5 μM

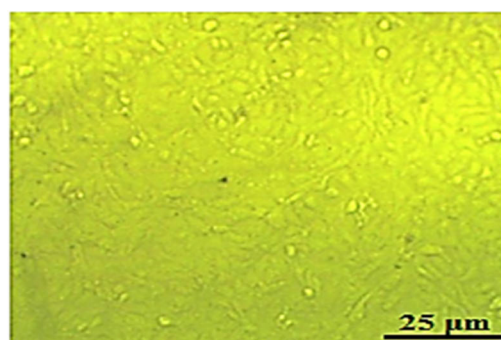


Eb 1 μM

b) $\text{ZnCe}_x\text{Fe}_{2-x}\text{O}_4$

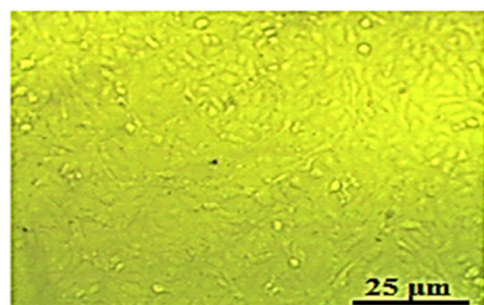


ZnFe_2O_4 10 μM

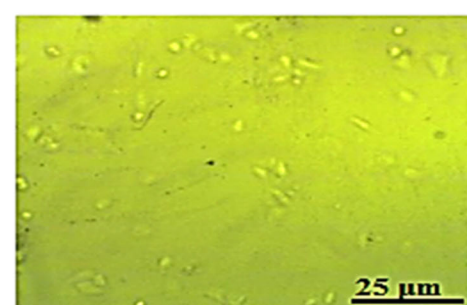


ZnFe_2O_4 100 μM

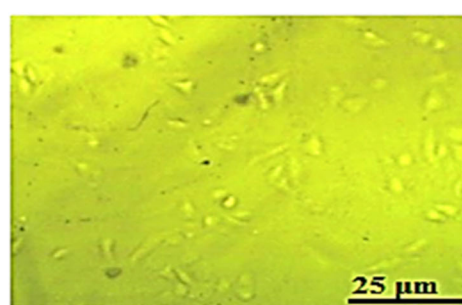
c) Eb- ZnFe_2O_4



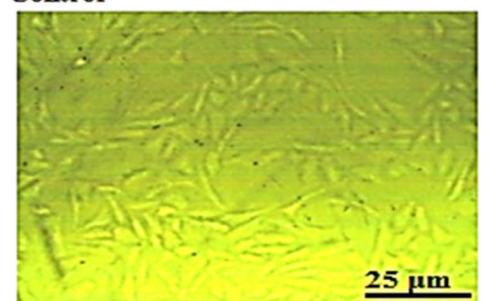
Control



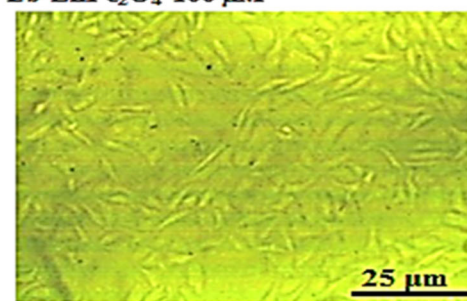
Eb- ZnFe_2O_4 100 μM



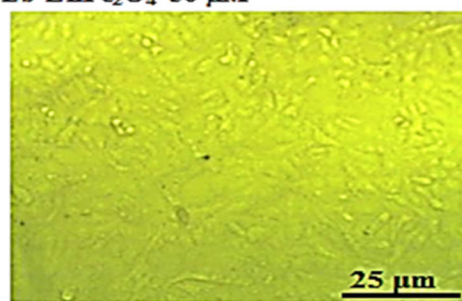
Eb- ZnFe_2O_4 50 μM



Eb- ZnFe_2O_4 25 μM



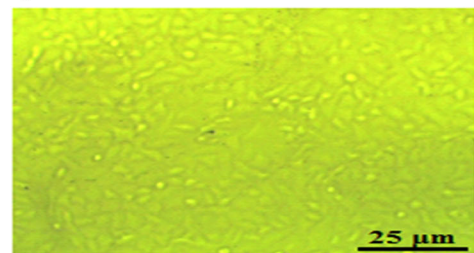
Eb- ZnFe_2O_4 12.5 μM



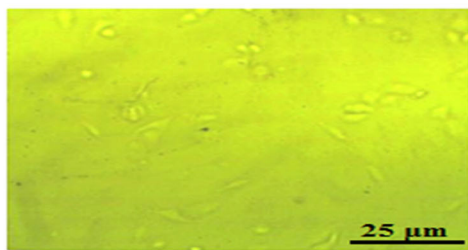
Eb- ZnFe_2O_4 1 μM

II) HT-29 cells

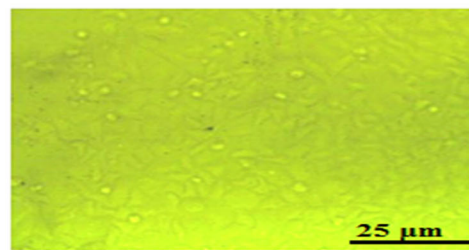
a) Eb



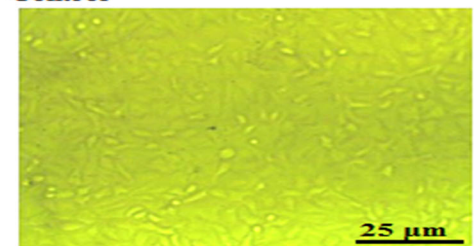
Control



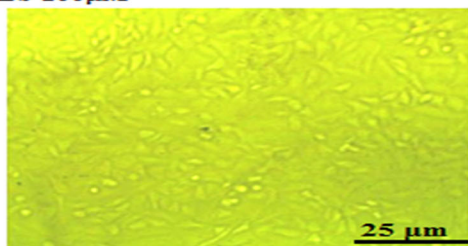
Eb 100 μM



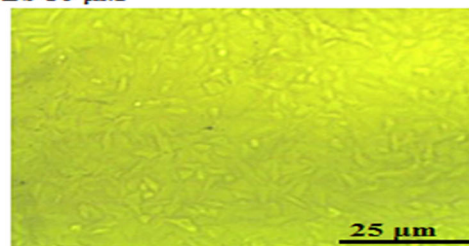
Eb 50 μM



Eb 25 μM

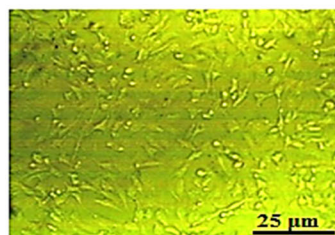


Eb 12.5 μM

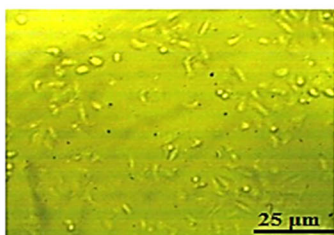


Eb 1 μM

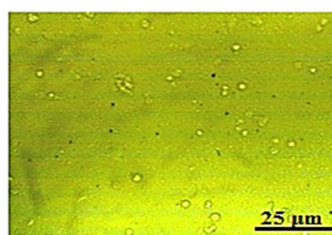
b) $\text{ZnCe}_x\text{Fe}_{2-x}\text{O}_4$



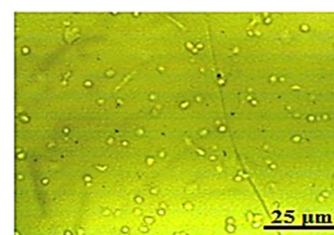
ZnFe_2O_4 10 μM



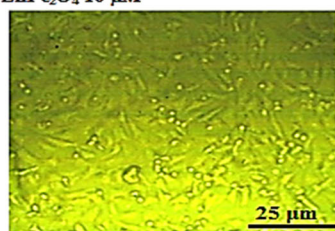
$\text{ZnCe}_{0.02}\text{Fe}_{1.98}\text{O}_4$ 10 μM



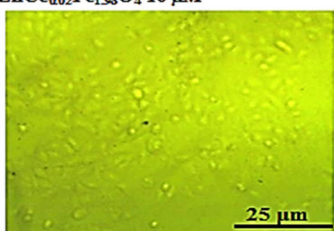
ZnFe_2O_4 100 μM



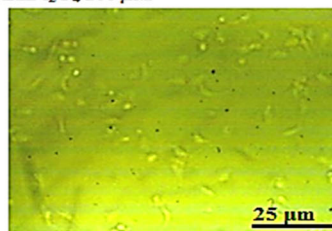
$\text{ZnCe}_{0.02}\text{Fe}_{1.98}\text{O}_4$ 100 μM



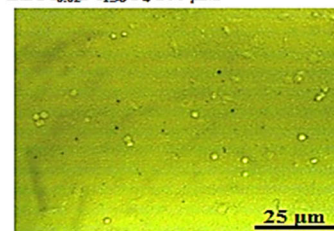
$\text{ZnCe}_{0.04}\text{Fe}_{1.96}\text{O}_4$ 10 μM



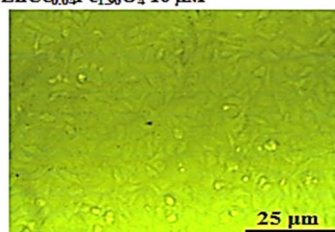
$\text{ZnCe}_{0.06}\text{Fe}_{1.94}\text{O}_4$ 10 μM



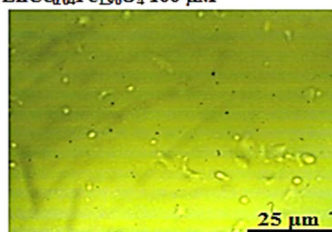
$\text{ZnCe}_{0.04}\text{Fe}_{1.96}\text{O}_4$ 100 μM



$\text{ZnCe}_{0.06}\text{Fe}_{1.94}\text{O}_4$ 100 μM

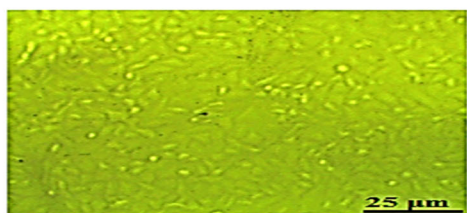


$\text{ZnCe}_{0.08}\text{Fe}_{1.92}\text{O}_4$ 10 μM

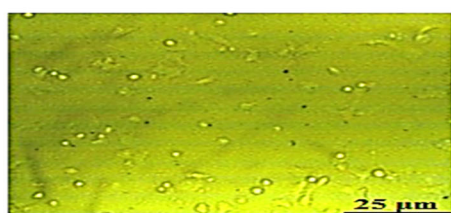


$\text{ZnCe}_{0.08}\text{Fe}_{1.92}\text{O}_4$ 100 μM

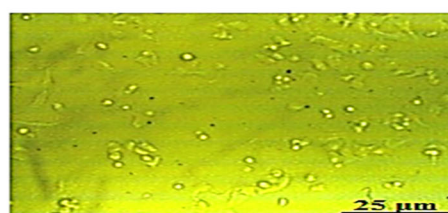
c) Eb- $\text{ZnCe}_{0.06}\text{Fe}_{1.94}\text{O}_4$



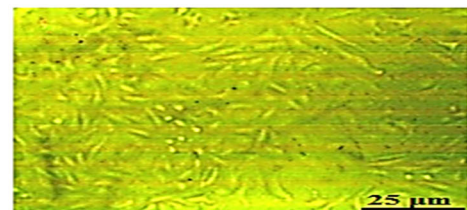
Control



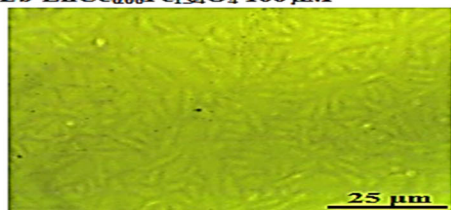
Eb- $\text{ZnCe}_{0.06}\text{Fe}_{1.94}\text{O}_4$ 100 μM



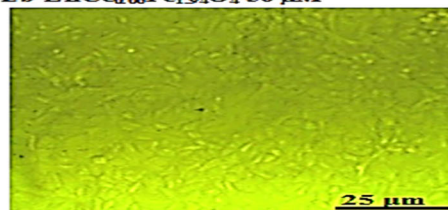
Eb- $\text{ZnCe}_{0.06}\text{Fe}_{1.94}\text{O}_4$ 50 μM



Eb- $\text{ZnCe}_{0.06}\text{Fe}_{1.94}\text{O}_4$ 25 μM

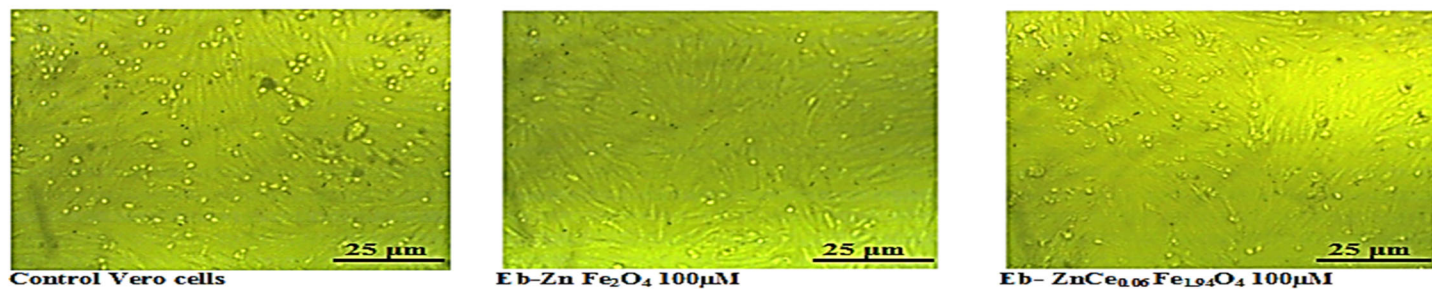


Eb- $\text{ZnCe}_{0.06}\text{Fe}_{1.94}\text{O}_4$ 12.5 μM



Eb- $\text{ZnCe}_{0.06}\text{Fe}_{1.94}\text{O}_4$ 1 μM

III) Normal Vero cells



Supplement Figure S1: Inverted light microscopy images of cytotoxicity screening of the various concentrations of Ebselen (Eb) and/or ZnCe_xFe₂-XO₄ nanoparticles. I) MDA-MB-231 cells were treated as follows: a) Eb, b) ZnCe_xFe₂-XO₄ (here we show only the images of the low and high concentrations of the effective nanoparticles, due to the other nanoparticles were not effective with no apparent cytotoxicity and were quietly as same as the control) and c) Eb-ZnFe₂O₄. II) HT-29 cells were treated as follows: a) Eb, b) ZnCe_xFe₂-XO₄ and c) Eb-ZnCe_{0.06}Fe_{1.94}O₄. III) Normal Vero cells treated by Eb-ZnFe₂O₄ and Eb-ZnCe_{0.06}Fe_{1.94}O₄ at concentration of 100 μM.