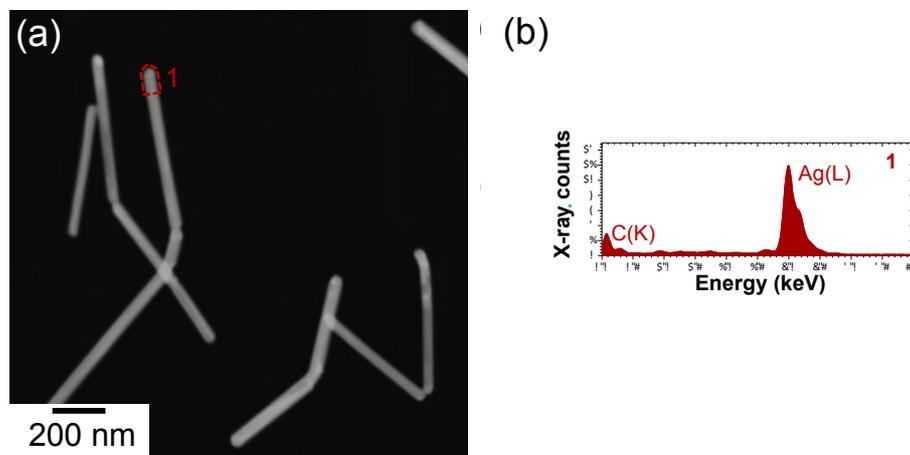
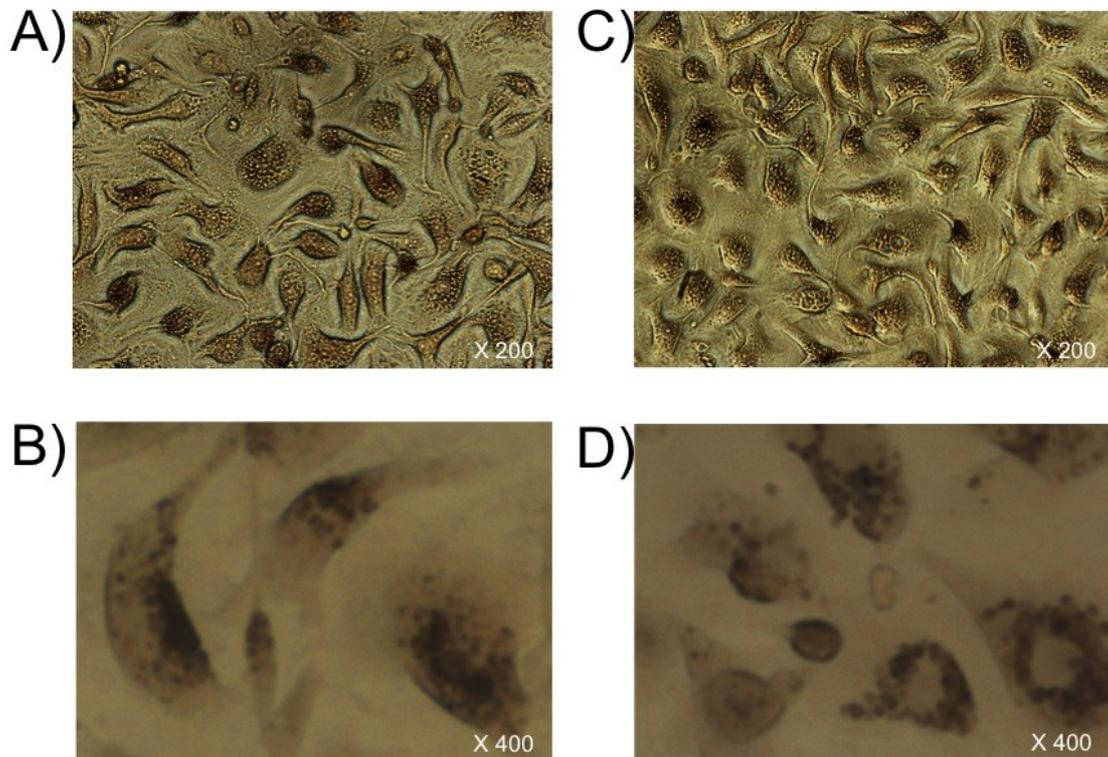


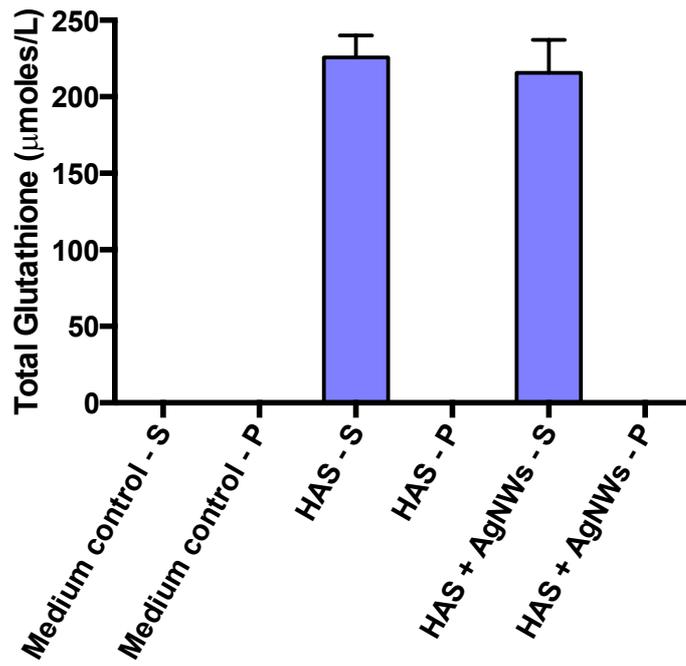
Supplementary Figure 1 – High-resolution TEM images of TT1 cells incubated for 24 hours with AgNWs pre-incubated with Curosurf, showing AgNWs in endosome-like vesicles. (ii) shows a magnification of the boxed area in (i). (iii) A HRTEM image from the boxed area in (ii). The lattice spacing corresponds to the monoclinic structure of Ag_2S (-121) (ref. 00-014-0072), confirming the precipitation of crystalline Ag_2S .



Supplementary Figure 2 Characterization of AgNWs incubated in HAS for 24 hours. (a) HAADF-STEM image of AgNWs showing that no morphological changes are observed with respect to as-synthesized AgNWs. (b) STEM-EDX spectrum collected from the area marked '1' in (a).



Supplementary Figure 3 Osmium tetroxide staining of lamellar bodies within AII cells at Day 1 post-exposure to AgNWs, at X200 and X400 magnification (C and D, respectively) and corresponding non-treated control at the same time interval, at X200 and X400 magnification (A and B, respectively). Briefly, the cells were washed in PBS (pH 7.3) and fixed with glutaraldehyde (15 ml/ml PBS) for 15 min. The cells were then washed twice and treated with osmium tetroxide (10 mg/ml PBS; Sigma) for 90 min at room temperature. The cells were then washed twice and incubated in tannic acid (10 mg/ml PBS, pH 6.8; Sigma) overnight. After washing with PBS (pH 6.8), the cells were examined and imaged under phase contrast (A and C) and differential interference contrast (B and D) light microscopy.



Supplementary Figure 4 – Total glutathione levels in HAS remain in the supernatant (S) following centrifugation in the presence of AgNWs; no glutathione was measured in the pellet (P).