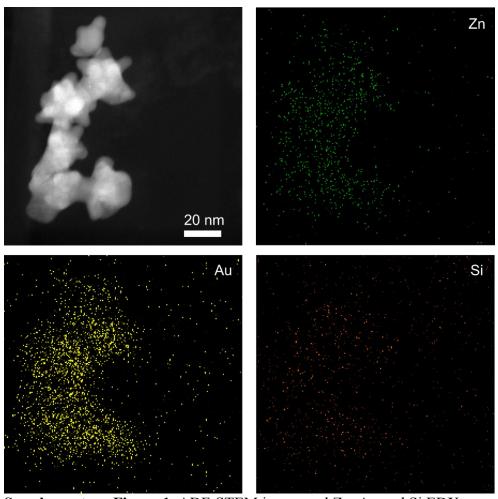
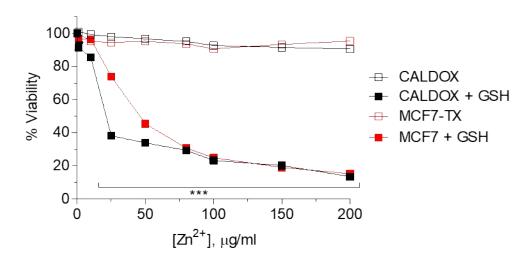
Electronic Supplementary Material (ESI) for Nanoscale. This journal is © The Royal Society of Chemistry 2019

SUPPLEMENTARY FIGURES



Supplementary Figure 1. ADF-STEM image and Zn, Au and Si EDX compositional maps of the MSN-ZnO-AuNSs in the vicinity of the CAL51 cells at 2 hours.

IgG-MSN-ZnO-AuNS



Supplementary Figure 2. GSH activates the release of zinc ions from the IgG-MSN-ZnO-AuNSs. In the presence of GSH, the IgG-S-S-conjugated MSN-ZnO-AuNSs reduce the viability of CALDOX and MCF7-TX cells in a dose-dependent manner (WST assay, 24 h treatment). Without GSH, the IgG-MSN-ZnO-AuNSs have no significant cytotoxic effect. *** p< 0.001 vs. non-treated ([Zn²⁺]=0) cells, one-way ANOVA. Mean+/-SEM, n=3 independent experiments.