Electronic Supplementary Material (ESI) for Nanoscale Advances.

Supplementary figures

Effect of silver nanospheres and nanowires on human airway smooth muscle cells *in vitro*: role of sulfidation

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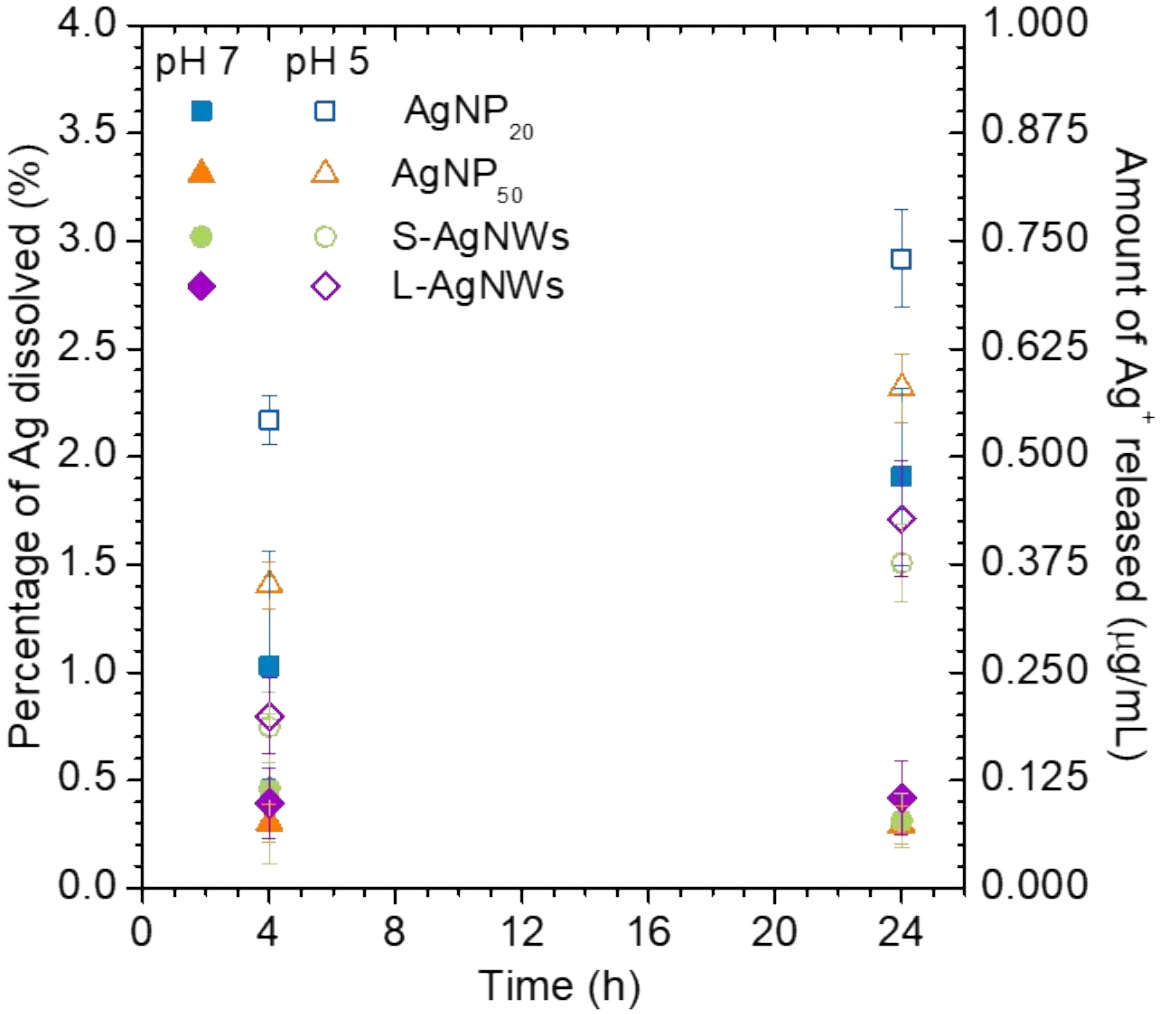
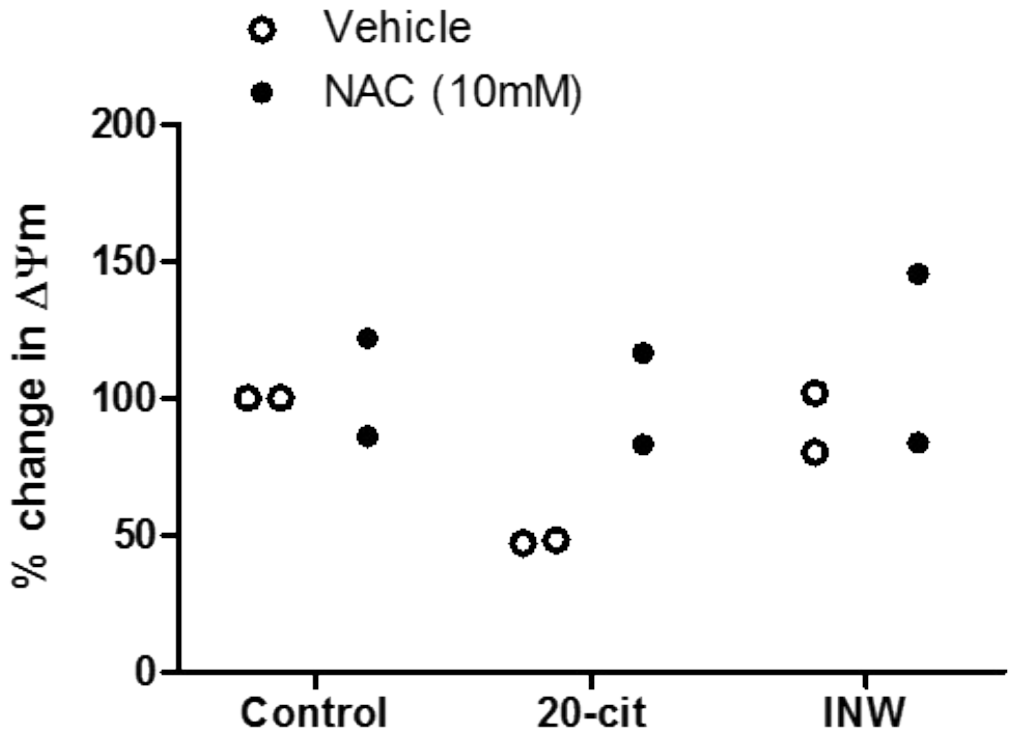


Supplementary Figure 1

ICP-OES analysis of the percentage and amount of free Ag^{+} ions released from $AgNP_{20}$, $AgNP_{50}$, S-AgNWs, and the L-AgNWs, incubated in perchlorate buffer solutions with pH 7 (solid symbols) and pH 5 (open symbols), for 4 and 24 h . Adapted from (1, 2).



Supplementary Figure 2.

Effect of N-acetylcysteine on silver nanosphere- and nanowire-dependent mitochondrial membrane potential. ASMCs were serum-starved overnight, pre-treated with N-acetyl cysteine (NAC; 10mM) or vehicle for 1hr and then incubated with 20µm nanospheres (25 µg/mL) or long nanowires (lNW; 25 µg/mL) for 72hrs. Changes in mitochondrial membrane potential (ΔΨm) were determined using the JC-1 assay. Each data point represents results from one ASMC donor.

References

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2. Leo BF, Chen S, Kyo Y, Herpoldt KL, Terrill NJ, Dunlop IE, et al. The stability of silver nanoparticles in a model of pulmonary surfactant. Environmental science & technology. 2013;47(19):11232-40.