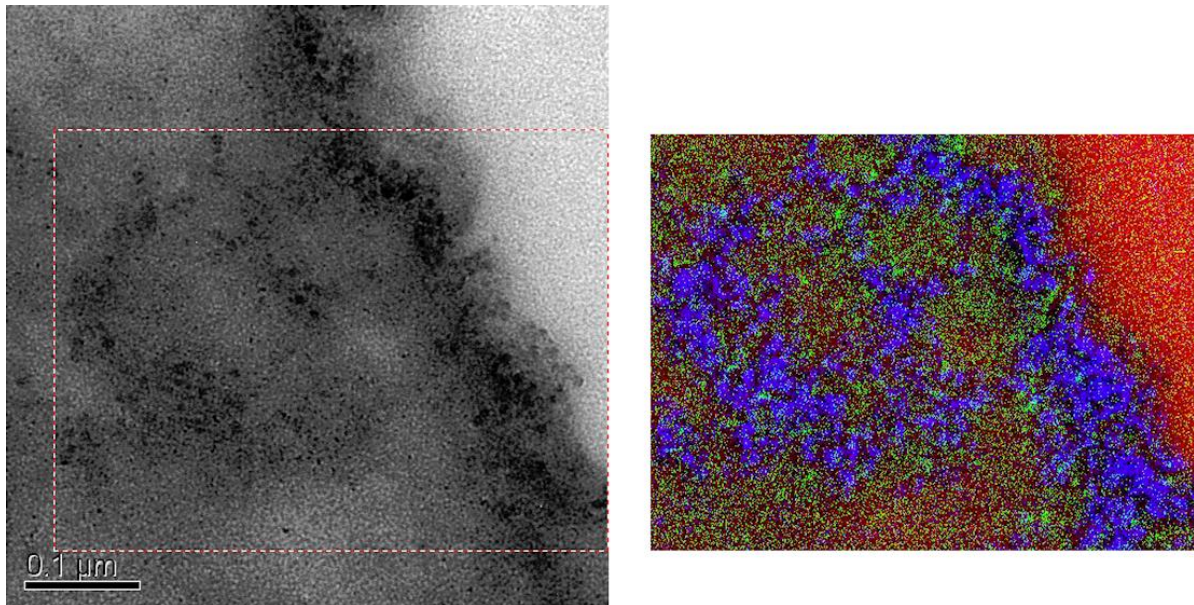


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Additional File 6



Red = BF Image Green = P map Blue = Si Map

a) Higher Magnification bright field TEM image of A549 cell incubated at 4 °C for 30 min with a 100 $\mu\text{g/ml}$ of silica nanoparticles .

b) False colour composite map of boxed region in a), showing the relative distribution of Si (blue) and P (green) and again confirming the penetration of the silica NPs into the cell alongside dispersion along the membrane.

EF-TEM elemental maps were recorded as described in additional file 5 and then false coloured and overlaid to produce the image in b).