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Supplementary information



Figure S1. Raw Raman data of Au-MBA nanoparticles co-localised with NIR with NIR absorbing Au-NS deposited on CaF2, under different illumination powers (250, 500 and 750 mW) at 830 λ ex.



Figure S2. A & B raw Raman spectra of 360 time points of tissue with au-MBA alone (a) and with inclusion of nanospheres (B)

Due to the phenomena discussed in the main body of the article, an initial equilibrium point is required to generate a scaling factor to correlate the theoretical anti-Stokes/Stokes intensity with that observed at depth.



Figure S3. Theoretical data demonstrating the difference between theoretically calculated antistokes / stokes I(AS)/I(S) and the observed I(AS)/I(S)'.