Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B.

Supplementary Information

Photoactivation of Core-Shell Titania Coated Upconversion Nanoparticles and its Effect on Cell Death

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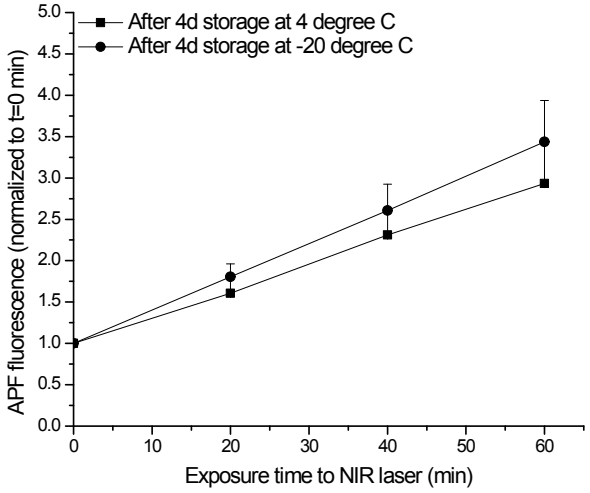

Figure S1. ROS production from TiO_2-UCN stored as dry powder under different conditions. TiO_2-UCN activity for ROS production under 980 nm NIR irradiation (2.16 W cm^{-2}) after storage for 4 days at -20 °C compared to 4 °C as determined by APF fluorescence and plotted as a function of exposure time (t) to the 980 nm NIR laser. $P > 0.05$ between 4 °C and -20 °C.

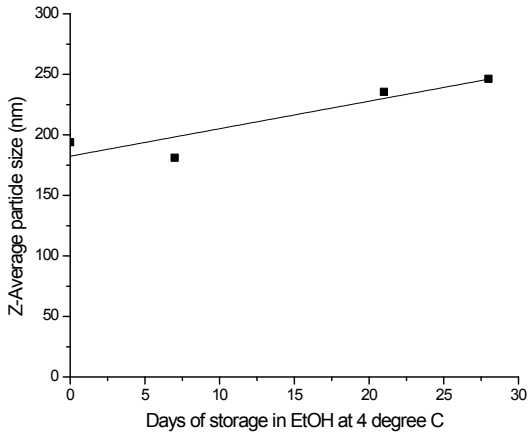

Figure S2. Hydrodynamic size of the nanoparticles at different storage days in EtOH at 4 °C as measured by dynamic light scattering. The storage medium, EtOH, was removed and the TiO_2-UCN was resuspended in water prior to the measurement