Supplementary material for the article:

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Supplement information

NIR photo-driven upconversion in $NaYF_4$:Yb,Er/PLGA particles for *in vitro* bioimaging of cancer cells

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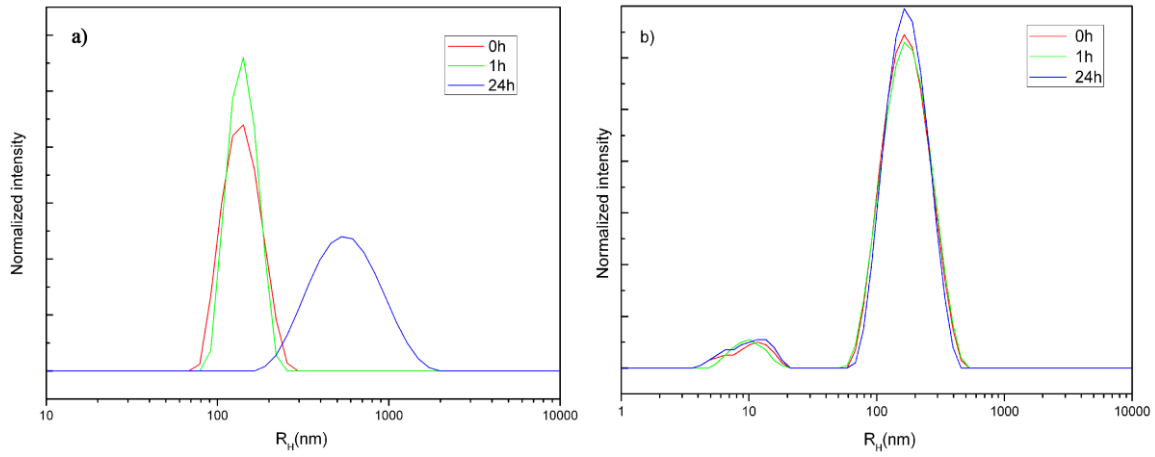


Fig. S1. Hydrodynamic radius distribution over time of $NaYF_4$:Yb,Er/PLGA UCNPs (1 mg/mL) in water (a) and medium used for testing of cell viability and imaging (b).

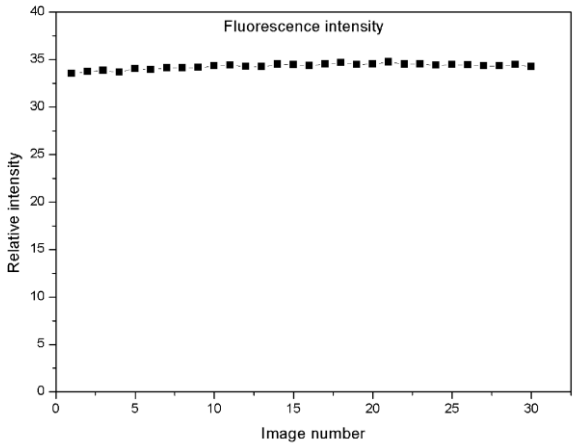
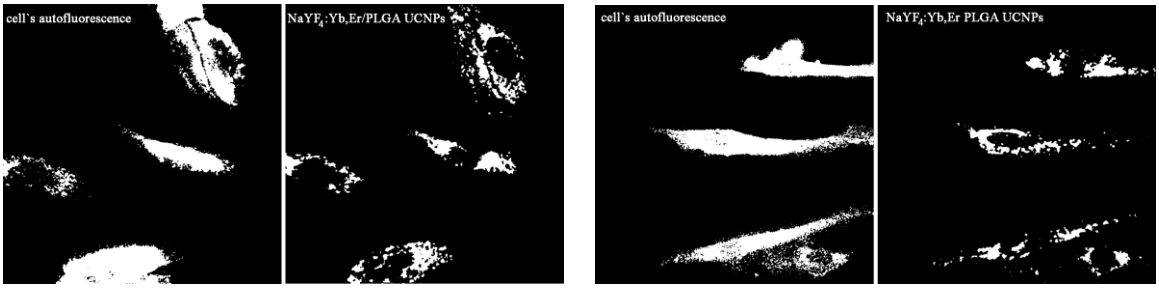
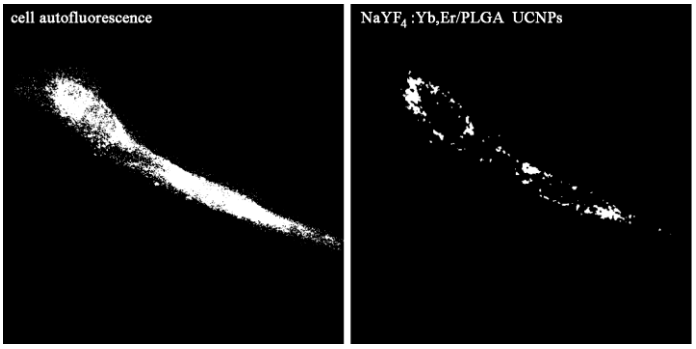


Fig. S2. Photostability of the $NaYF_4$:Yb,Er/PLGA UCNPs. The emission intensity was traced during 1h (CW laser, 980 nm, power density 2MW/cm^2)



Black pixels: 928704 Black pixels: 997766 Black pixels: 935717 Black pixels: 1010812
White pixels: 119872 White pixels: 50810 White pixels: 112859 White pixels: 37764
11.43% cells 4.85% UCNPs 10.76% cells 3.60% UCNPs
42% uptake 33% uptake

Fig.S3. Quantification of the $NaYF_4$:Yb,Er/PLGA UCNPs uptake in cells): left Fig.6 (OSCC, 42%) and right Fig.7 (HGC, 33%)



Black pixels: 995446 Black pixels: 1037672
White pixels: 53130 White pixels: 10904
5.07% cells 1.04% UCNPs
21% uptake

Fig.S4. Quantification of the $NaYF_4$:Yb,Er/PLGA UCNPs uptake in single OSCC: 21%