## Supplementary data for the article:

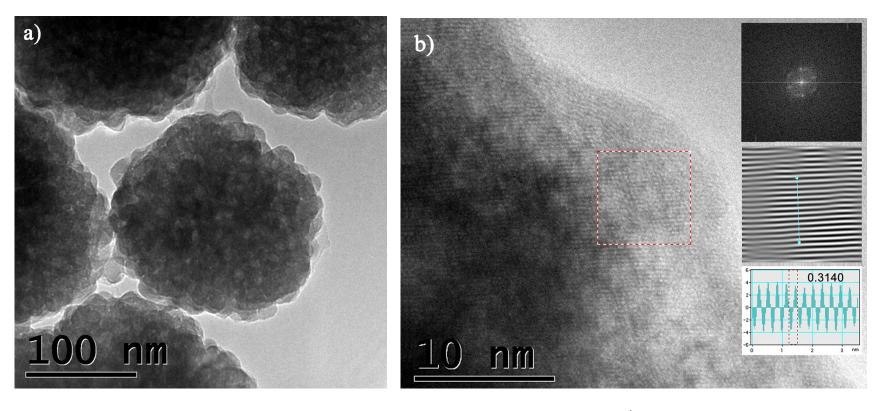
Mancic, L.; Djukic-Vukovic, A.; Dinic, I.; Nikolic, M. G.; Rabasovic, M. D.; Krmpot, A. J.; Costa, A. M. L. M.; Marinkovic, B. A.; Mojovic, L.; Milosevic, O. One-Step Synthesis of Amino-Functionalized up-Converting NaYF 4:Yb,Er Nanoparticles for: In Vitro Cell Imaging. *RSC Advances* **2018**, *8* (48), 27429–27437. <a href="https://doi.org/10.1039/c8ra04178d">https://doi.org/10.1039/c8ra04178d</a>

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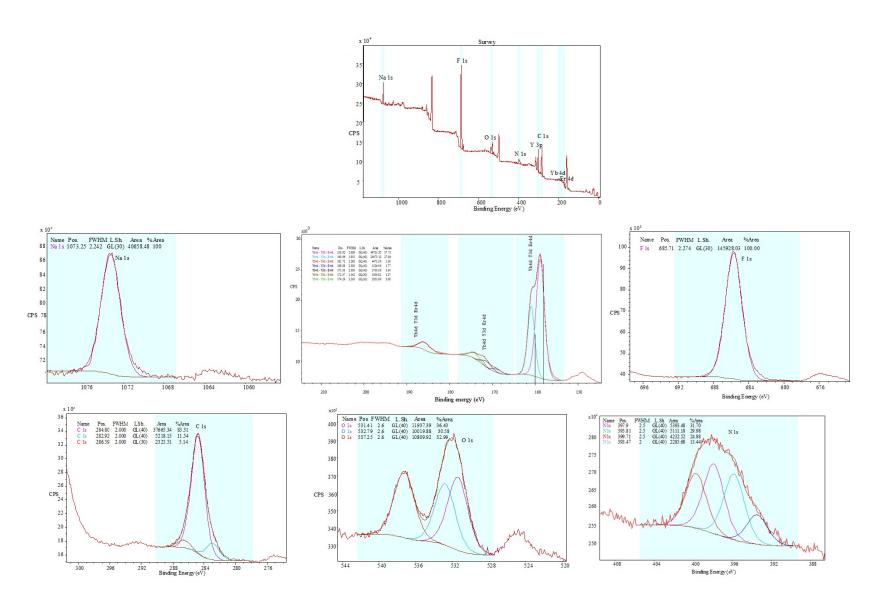
## **Supplementary file**

## One-step synthesis of amino-functionalized up-converting NaYF<sub>4</sub>:Yb,Er nanoparticles for in vitro cell imaging

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**Fig. S1.** TEM (a) and HRTEM (b) images of amino modified NaYF<sub>4</sub>:Yb,Er UCNPs. Corresponding FFT/IFFT given as insets in b, confirms that much smaller crystallites notable at the particles surfaces (a) revealed periodic array of cubic  $\alpha$  phase, (111) plane with d value of 3.140 Å



**Fig. S2.** XPS spectrum of amino-functionalized NaYF<sub>4</sub>:Yb,Er UCNPs: survey spectrum and fine-scan spectra of Na 1s, Y 3d, Yb 4d, Er 4d, F 1s and decomposed ones of C 1s, O 1s and N 1s.

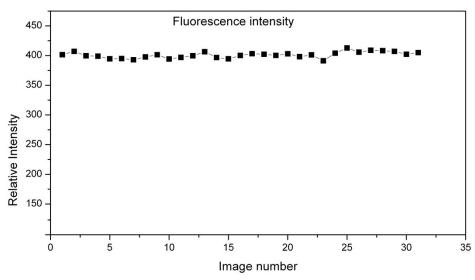


Fig. S3. Photostability of amino-functionalized up-converting NaYF<sub>4</sub>:Yb,Er nanoparticles. The emission intensity was traced during 1h