

Erratum: Single-band upconversion nanoprobes for multiplexed simultaneous *in situ* molecular mapping of cancer biomarkers

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This Article contains errors in the author affiliation 1 and in Figs 2 and 6. The correct details for affiliation 1 are given below:

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In Fig. 2g, the emission spectrum was inadvertently duplicated from Fig. 2c during the production process. An error was also introduced in the transition represented in Fig. 2l. This panel represents the ${}^4F_{9/2}$ - ${}^4I_{15/2}$ transition. Furthermore, a wrong scale bar definition was provided in the figure caption. The scale bars represent 100 nm. In Fig. 6a, the 'PR' and 'ER' labeling of MCF-7 and MDA-MB-231 cell images were inadvertently switched during manuscript preparation. The blue fluorescence of sb-UCNPs-Anti-ER should have been labelled 'ER', and the green fluorescence of sb-UCNPs-Anti-PR should have been labelled 'PR'. Corrected versions of both figures appear below.

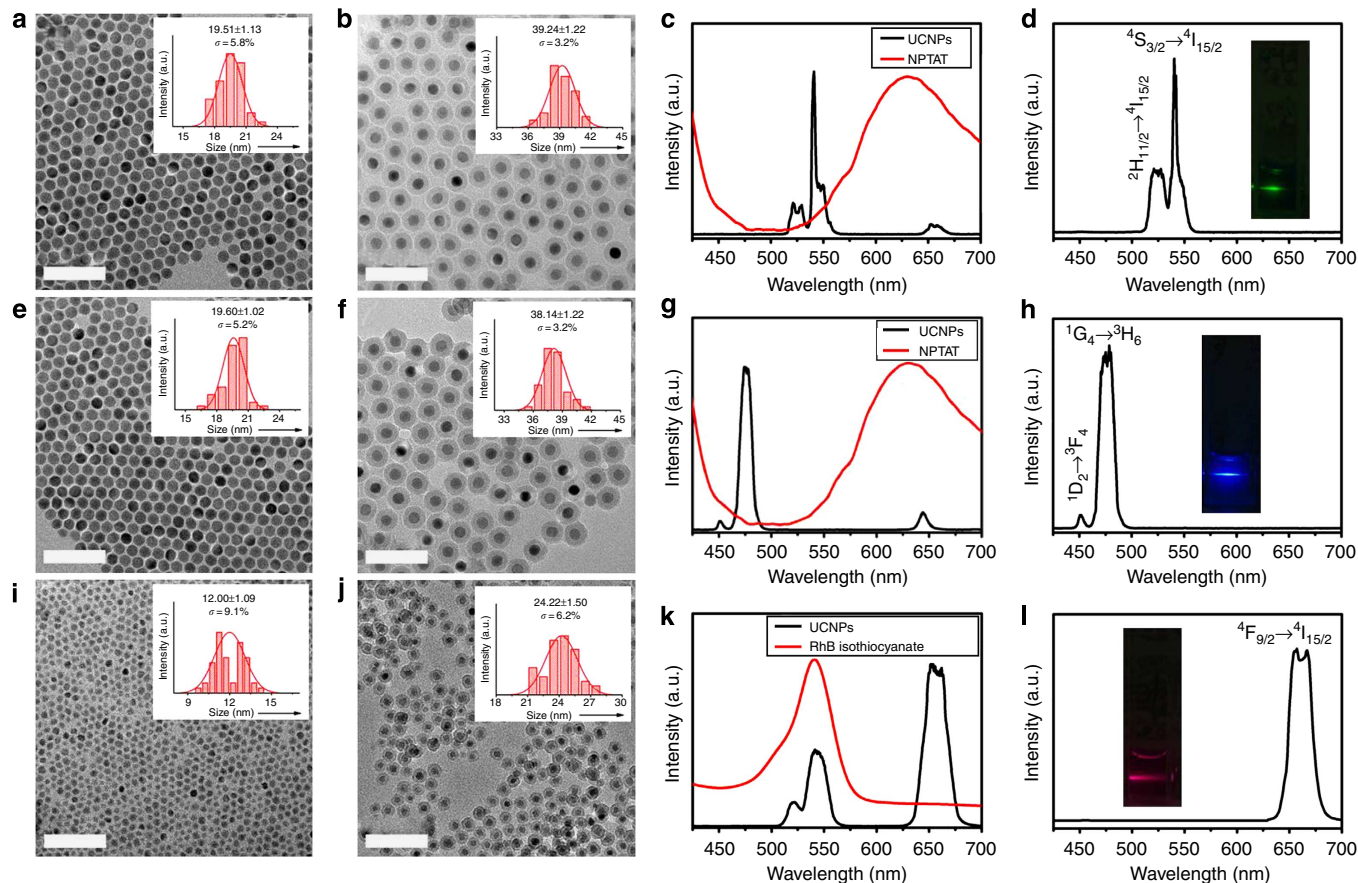


Figure 2 | Fabrication and properties of single-band upconversion nanoprobes. TEM images and size distributions of (a) β -NaGdF₄:20% Yb, 2% Er@NaGdF₄ nanocrystals, (b) green emission sb-UCNPs (β -NaGdF₄:20% Yb, 2%Er@NaGdF₄@SiO₂@NPTAT-doped SiO₂), (e) β -NaGdF₄:20% Yb, 0.2% Tm@NaGdF₄ nanocrystals, (f) blue emission sb-UCNPs (β -NaGdF₄:20% Yb, 0.2%Tm@NaGdF₄@SiO₂@NPTAT-doped SiO₂), (i) α -NaYbF₄:10% Er@NaYF₄ nanocrystals and (j) red emission sb-UCNPs (NaYbF₄:10%Er@NaYF₄@SiO₂@rhodamine B isothiocyanate-doped SiO₂). Upconversion photoluminescence spectra of the green, blue and red sb-UCNPs (d,h,i) and original upconversion nanocrystals measured in water and cyclohexane, respectively (c,g,k) (insets: corresponding photoluminescent photos of the colloidal solutions under continuous wavelength 980-nm laser excitation). Scale bars, 100 nm.

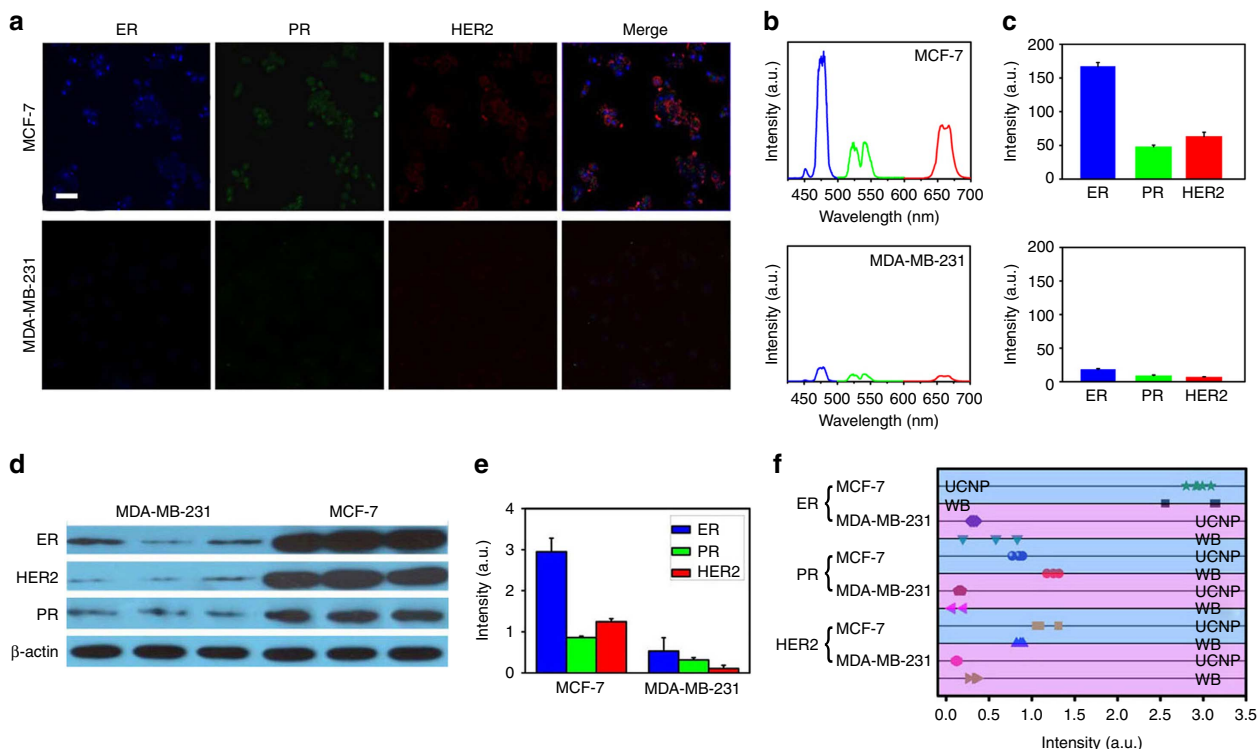


Figure 6