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Correction: Carbon-dot-based ratiometric fluorescent sensor for detecting hydrogen sulfide in aqueous media and inside live cells

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Correction for 'Carbon-dot-based ratiometric fluorescent sensor for detecting hydrogen sulfide in aqueous media and inside live cells' by Changmin Yu *et al.*, *Chem. Commun.*, 2013, **49**, 403–405, <https://doi.org/10.1039/C2CC37329G>.

The authors regret that there were several unclear statements and errors that appeared in the original text and Supplementary Information for this article. These are addressed as follows:

At the end of the 3rd paragraph (page 405) in the main text, we would like to include the following statement for clarity regarding the mechanism of internalization:

"The nanosized and CD-based sensor is likely internalized into cells *via* the endosome/lysosome pathway. As shown in fluorescence images presented in Fig. 3 and Fig. S20, some CD-based sensors seem to be entrapped in endosomes/lysosomes, and some others appear to escape into cytosols from endosomes."

For Fig. 3, we have added scale bars and brightfield images of the cells have been added as below:

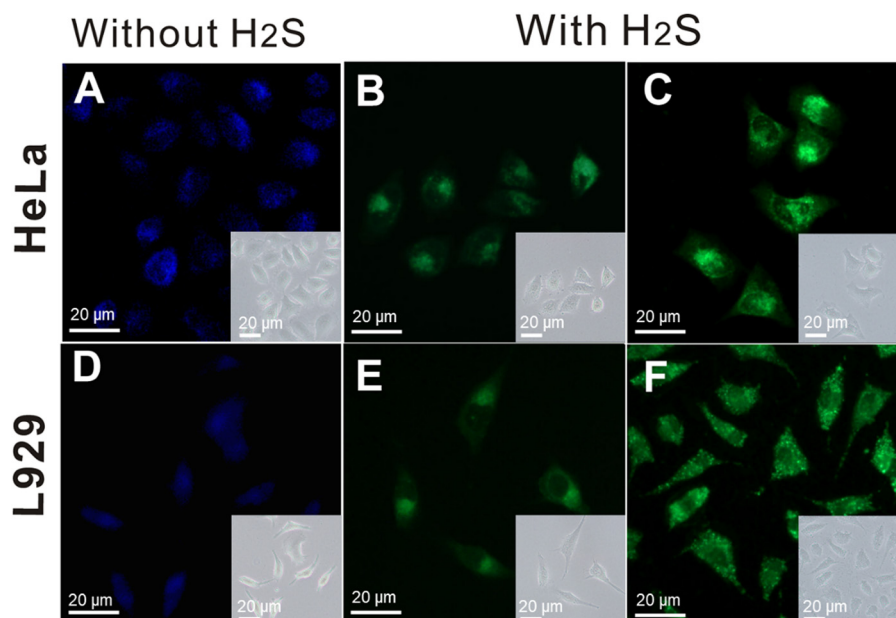


Fig. 3 Fluorescence imaging of HeLa and L929 cells incubated with the sensor before (A and D) and after treatment with H₂S (B and E: 30 mM H₂S, C and F: 100 mM H₂S). The insets are the corresponding brightfield images.



There were also errors in Fig. S1A and Fig. S12A in the ESI of this article. The authors noticed that the atomic force microscopy (AFM) image in Fig. S1A does not correspond to the intended sample. In Fig. S12A, two of the arrows were incorrect. Specifically, the arrows should indicate that, with the addition of H_2S , the emission at 425 nm should gradually decrease, while the emission at 526 nm should increase. The ESI has been updated and corrected versions of Fig. S1A and Fig. S12A are shown below:

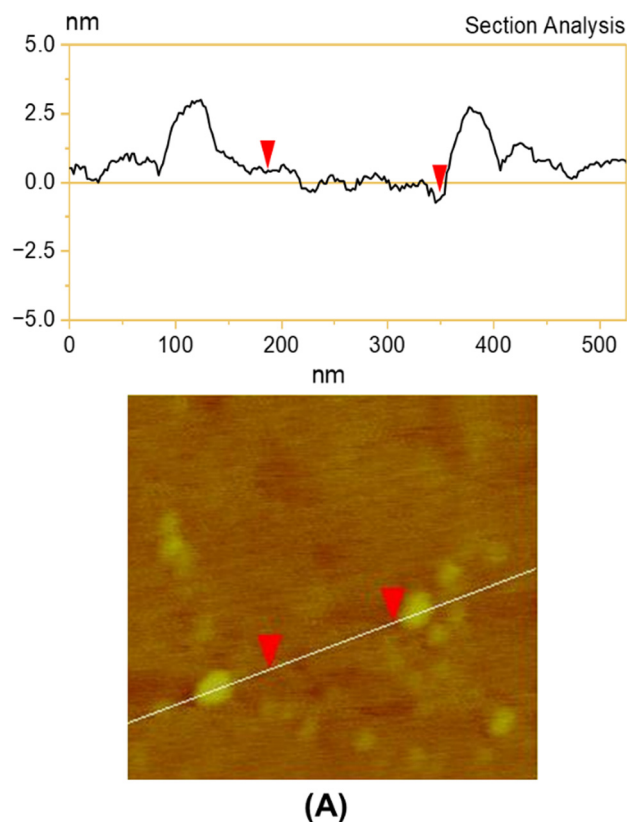


Fig. S1 (A) AFM topography image of carbon dots on silicon substrate with the height profile along the line in the topographic image.

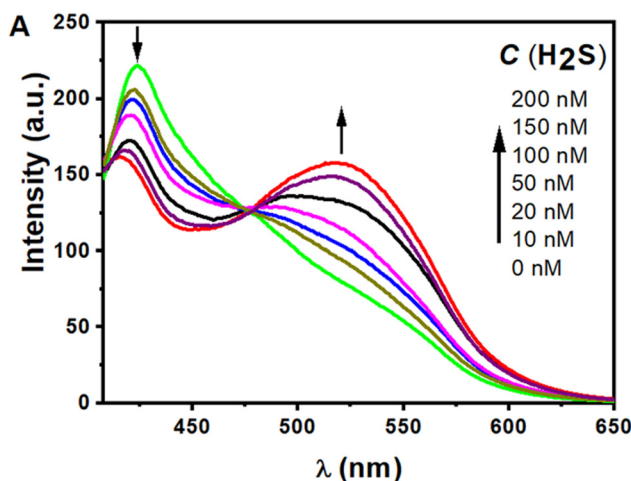


Fig. S12 (A) Fluorescence spectra of CD-based sensor (concentration: 0.15 mg mL^{-1} , the amount of probe conjugated onto CDs: 4.48 mg g^{-1}) in the presence of different amounts of H_2S in HEPES buffered (pH 7.4) water-ethanol (3 : 1, v/v).



Finally, the standard name of the H₂S probe (naphthalimide-azido) should have been listed as “4-(2-(6-azido-1,3-dioxo-1*H*-benzo[*de*]isoquinolin-2(3*H*)-yl)ethoxy)-4-oxobutanoic acid” based on IUPAC nomenclature.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

