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CORRECTION

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Correction: A non-invasive nanoparticles for multimodal imaging of ischemic myocardium in rats

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After the publication of the original article [1], the authors have identified mistakes in Fig. 2d, Fig. 5b, and Additional file 1: Figure S7. The revised figures are shown in this correction. All authors sincerely apologize for these errors.

The original article can be found online at https://doi.org/10.1186/s12951-021-00822-7.

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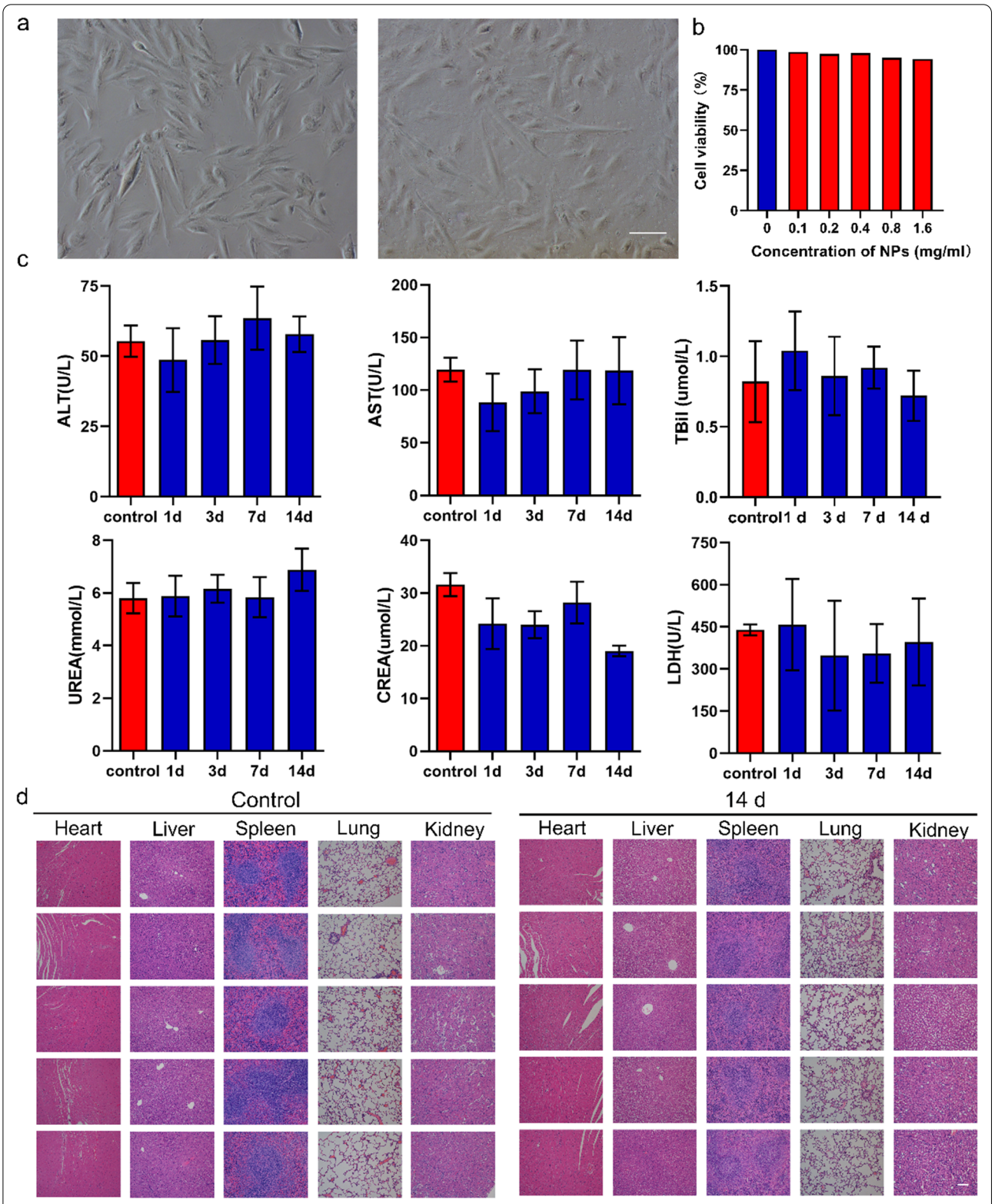

Fig. 2 The safety profile of NPs. **a** Morphology of normal H9C2 cells and co-incubation with IMTP-Fe_3O_4-PFH NPs (scale bar: 100 μm). **b** Cell viability of H9C2 cells after co-incubation with different concentrations of IMTP-Fe_3O_4-PFH NPs. **c** Blood biochemical indexes analysis of SD rats from the control group and the experimental groups at 1, 3, 7, and 14 d post intravenous injection of IMTP-Fe_3O_4-PFH NPs. **d** HE staining of major organs from the control group and 14 d experimental group after 14 d of intravenous administration with IMTP-Fe_3O_4-PFH NPs (scale bar: 100 μm)

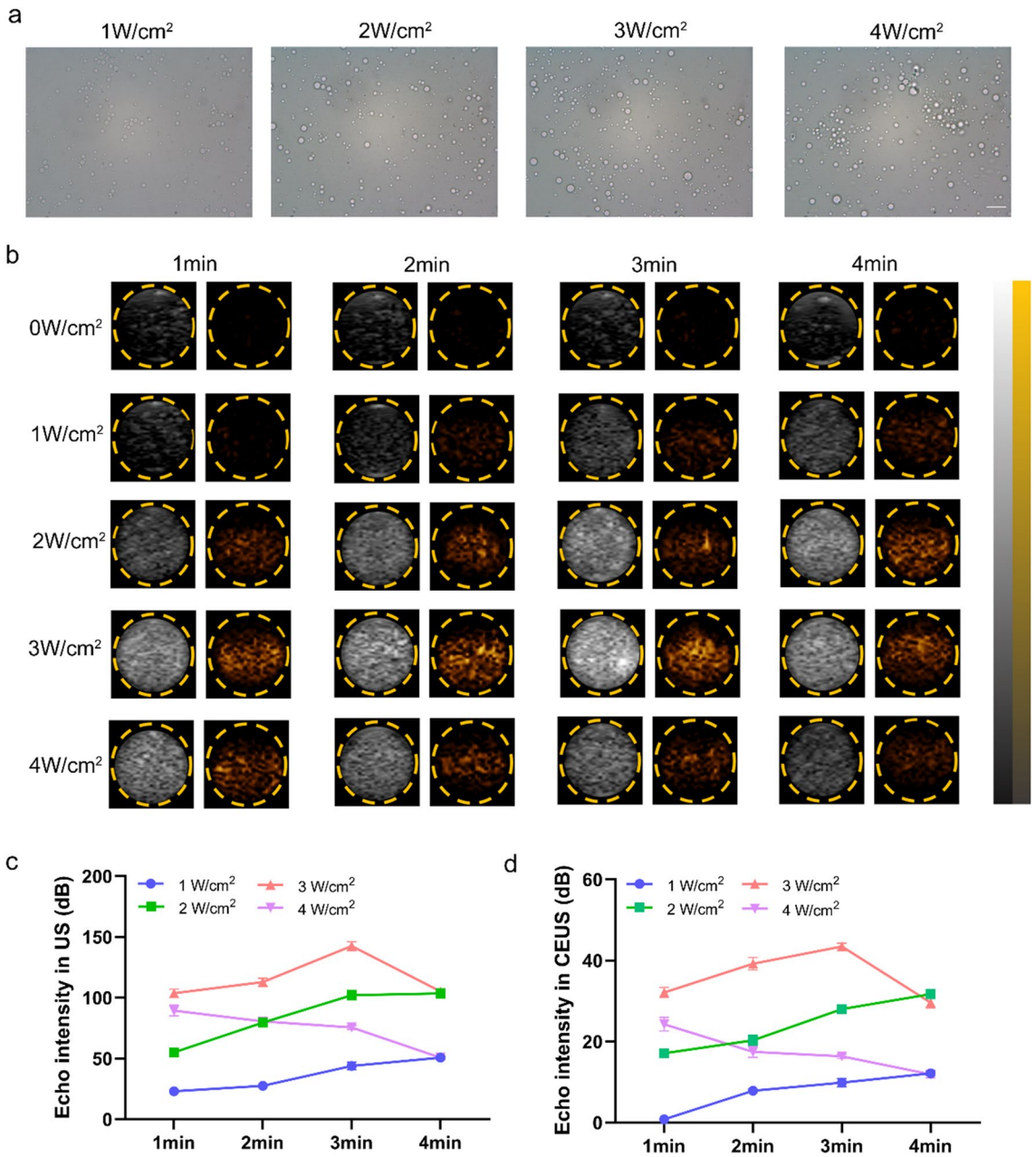

Fig. 5 Phase transition and US imaging in vitro. **a** Light microscope images of phase transformation induced by LIFU (scale bar = 10 μm). **b** The ultrasound imaging (left: B-Mode, right: CEUS) of IMTP-Fe_3O_4-PFH NPs with time- and intensity-dependent ADV. Quantitative analysis of the echo intensity of NPs after LIFU irradiation at different intensities and time in B-mode (**c**) and CEUS-mode (**d**)

Supplementary Information

The online version contains supplementary material available at https://doi.org/10.1186/s12951-022-01588-2.

Additional file 1: Figure S7. ADV and US imaging of IMTP-Fe_3O_4 NPs at different intensities of LIFU irritation and different time in vitro. Echo intensity did not change in all cases.

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