

CORRECTION

[View Article Online](#)
[View Journal](#) | [View Issue](#)Cite this: *Chem. Sci.*, 2020, 11, 10288**Correction: An oxygen self-sufficient NIR-responsive nanosystem for enhanced PDT and chemotherapy against hypoxic tumors**Guoliang Yang,^a Jia Tian,^a Chao Chen,^b Dawei Jiang,^a Yudong Xue,^a Chaochao Wang,^a Yun Gao^a and Weian Zhang^{*a}

DOI: 10.1039/d0sc90197k

rsc.li/chemical-scienceCorrection for 'An oxygen self-sufficient NIR-responsive nanosystem for enhanced PDT and chemotherapy against hypoxic tumors' by Guoliang Yang *et al.*, *Chem. Sci.*, 2019, 10, 5766–5772, DOI: 10.1039/C9SC00985J.

In the original article, Fig. 1d (the TEM image of F micelles) and Fig. 3a (MCF-7 cell uptake of F/DOX nanoparticles at 4 h) were displayed incorrectly. Corrected versions of Fig. 1 and 3 are presented below.

The results and conclusions of the original article are not affected by the presented corrections.

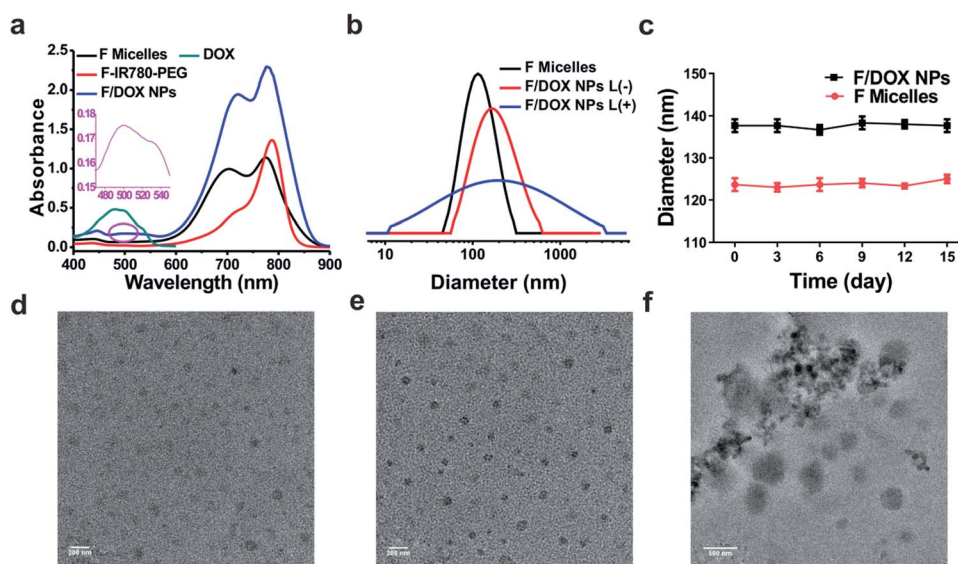


Fig. 1 Characterization of micelles. (a) UV-Vis absorption spectra of F/DOX nanoparticles, F micelles, DOX in PBS (pH = 7.4), and F-IR780-PEG in DMF. (b) Size distributions of F/DOX nanoparticles before or after laser irradiation and F micelles in PBS (pH = 7.4). (c) The physical stability of F micelles and F/DOX nanoparticles in PBS (pH = 7.4). Each data point was expressed as mean $\pm$ standard deviation ($n = 3$). TEM images of (d) F micelles, (e) F/DOX nanoparticles before laser irradiation, and (f) F/DOX nanoparticles after laser irradiation.

^aShanghai Key Laboratory of Functional Materials Chemistry, Key Laboratory for Specially Functional Polymeric Materials and Related Technology of the Ministry of Education, East China University of Science and Technology, 130 Meilong Road, Shanghai 200237, China. E-mail: wazhang@ecust.edu.cn

^bState Key Laboratory of Bioreactor Engineering Center, East China University of Science and Technology, China

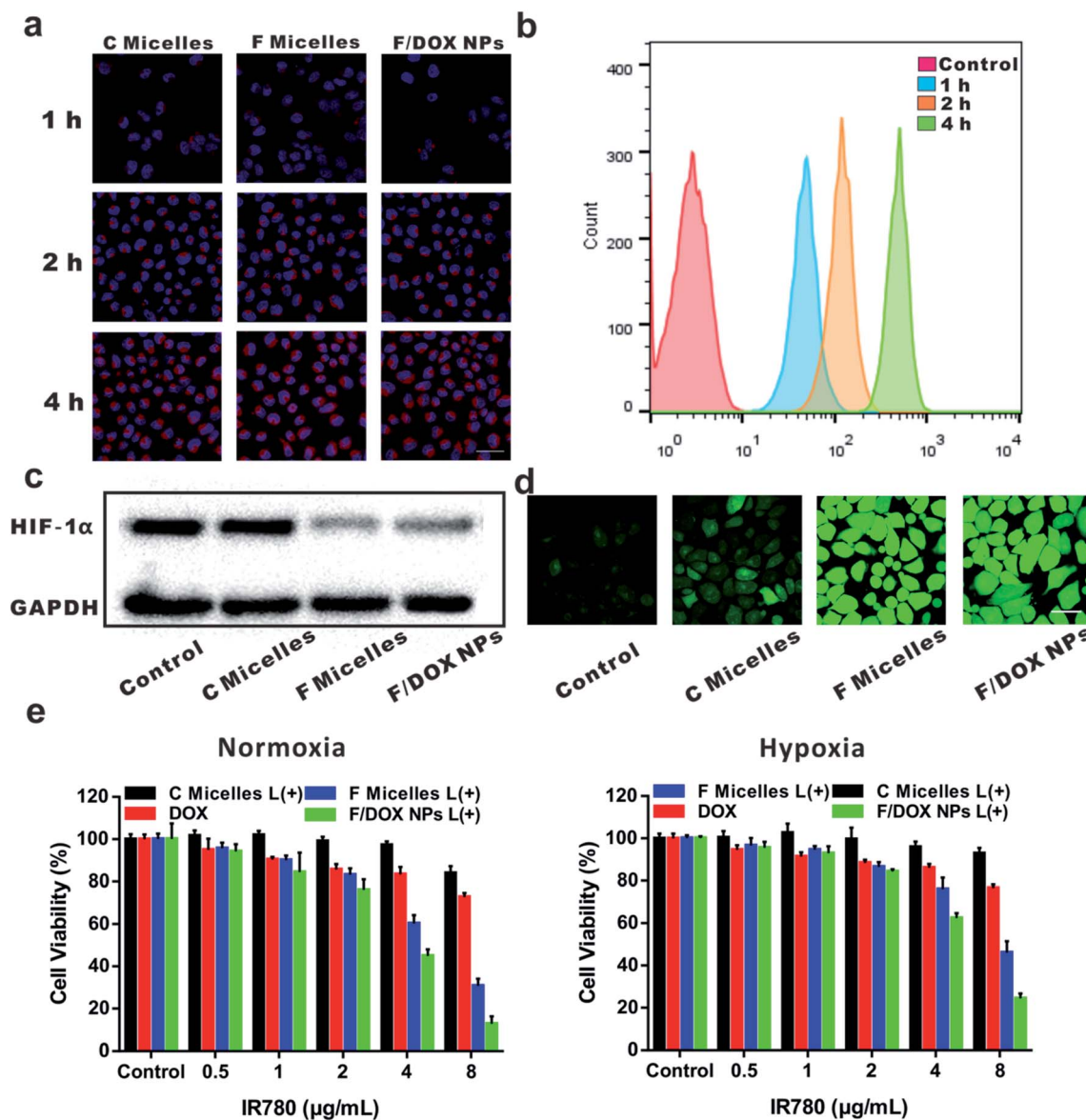


Fig. 3 (a) MCF-7 cell uptake of C micelles, F micelles and F/DOX nanoparticles at different times (1, 2, and 4 h). The scale bar represents 50 μm . (b) Flow cytometry analysis of DOX fluorescence in MCF-7 cells incubated with F/DOX nanoparticles for 1, 2 and 4 h. (c) HIF-1 α expressions of MCF-7 cells treated with C micelles, F micelles and F/DOX nanoparticles under hypoxia conditions. (d) CLSM images of intracellular ROS generation with laser irradiation in MCF-7 cells. The scale bar represents 50 μm . (e) Cell viability of MCF-7 cells treated with free DOX, C micelles, F micelles or F/DOX nanoparticles with 808 nm laser irradiation under normoxic and hypoxic conditions. Data are given as the mean $\pm$ SD ($n = 5$).

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

