

Chain Conformation Transition Induced Host-guest Assembly between Triple Helical Curdlan and β -CD for Drug Delivery

Qingye Liu^{1,3} *, Du Yang¹, Tongyi Shang², Lixiao Guo¹, Bin Yang² *, Xiaojuan Xu³*

1. School of Chemical Engineering and Technology, North University of China, NO. 3 Xueyuan Road, Jiancaoping District, Taiyuan 030051, China
2. The Sixth Affiliated Hospital of Guangzhou Medical University; Department of Biomedical Engineering, School of Basic Medical Sciences, Guangzhou Medical University, Guangzhou 511436, China
3. College of Chemistry and Molecular Sciences, Wuhan University, Wuhan 430072, China

[*] To whom correspondence and reprint requests should be addressed.

E-mail: qingyeliu@126.com; bin.yang@gzhmu.edu.cn; xuxj@whu.edu.cn

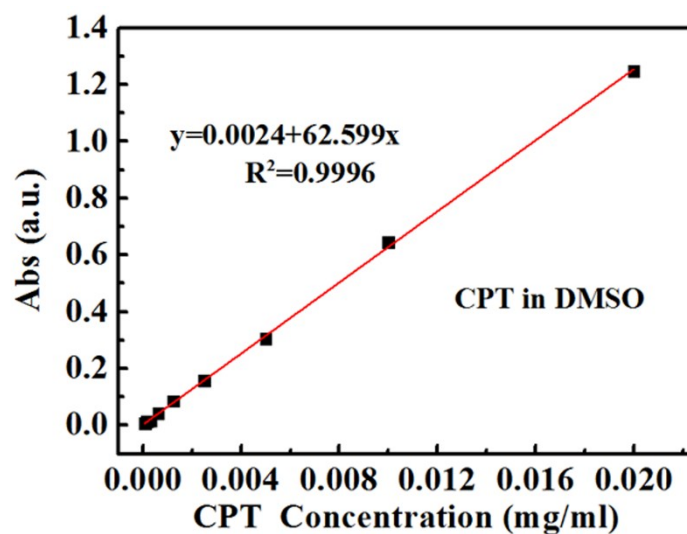


Fig. S1. The plot for UV intensities (at 368 nm) of CPT in DMSO against different concentration. The fitting equation was indicated in figure, and the correlation coefficient of R^2 was evaluated to be 0.9996.

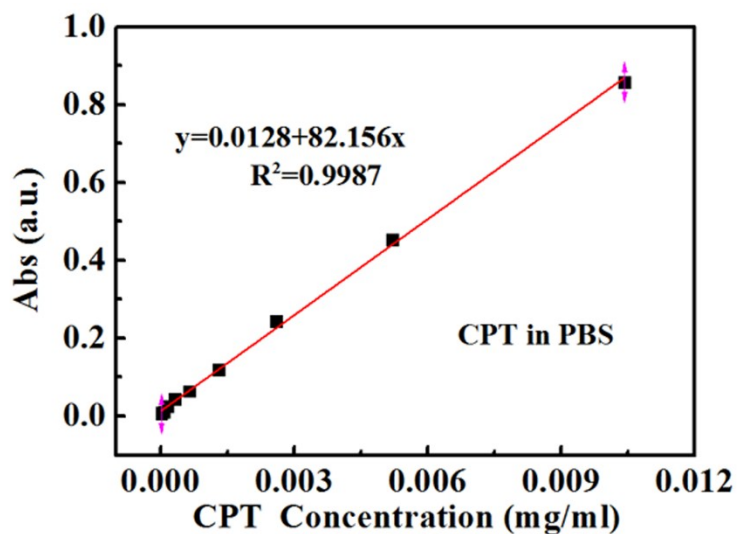


Fig. S2. Dependence of UV intensities (at 368 nm) for CPT in PBS buffer solution on different concentration. The fitting equation was shown in figure, and the correlation coefficient of R^2 was evaluated to be 0.9987.

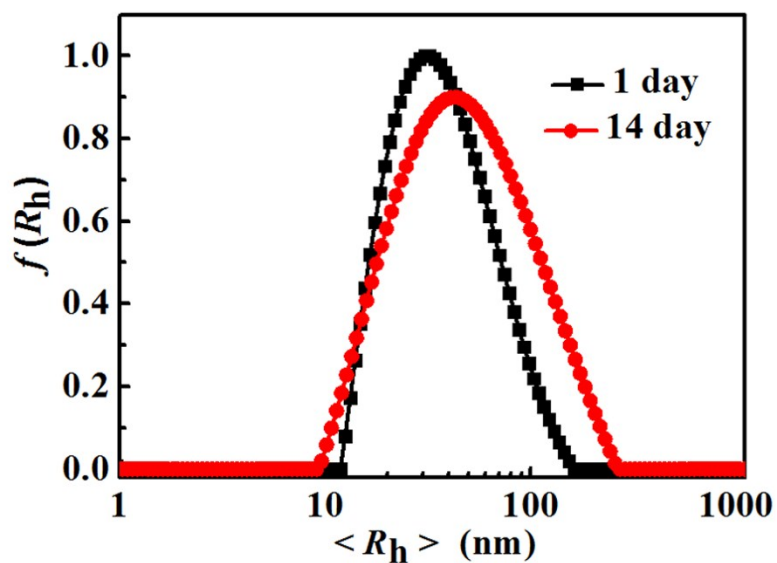


Fig. S3. The variation of hydrodynamic radius R_h for Curdlan/ β -CD micelles upon different deposit time.

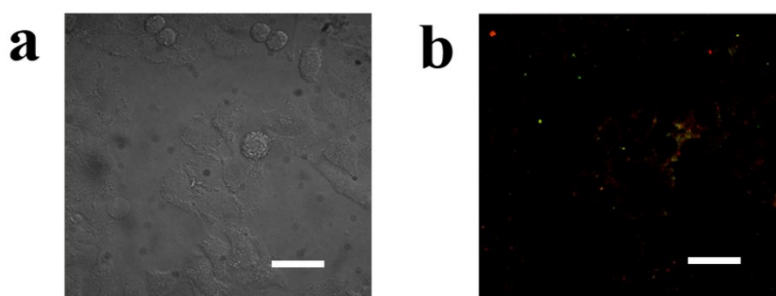


Fig. S4. Confocal images of HepG 2 cells treated with Curdlan/ β -CD micelles for 24 h. HepG 2 cells were stained with Annexin V-FITC/PI. From left to right: (a) transmitted light image and (b) confocal image of the same field. Scale bar is 20 μ m.

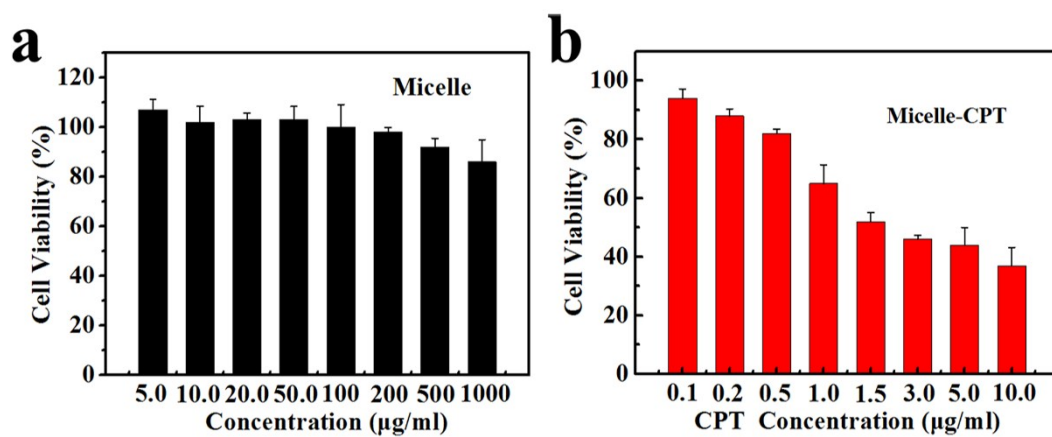


Fig. S5. Cytotoxicity of the Curdlan/β-CD micelles (**a**) and (**b**) CPT-loaded micelles against HepG 2 cells for 48 h. Data are presented as a mean ± SD of n = 3.

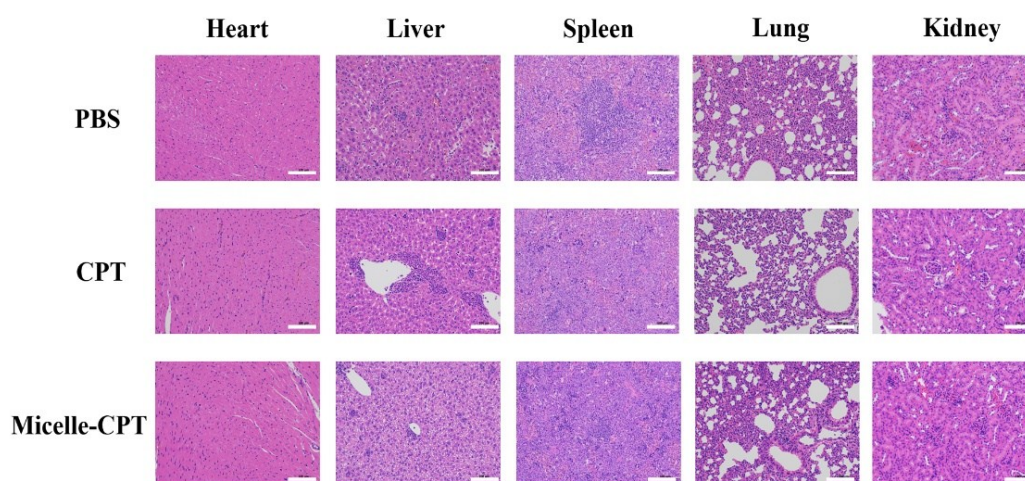


Fig. S6. H&E staining of the major organs. Scale bar = 100 μm.