

Supplementary Materials

Supramolecular Nanoparticles of Histone and Hyaluronic Acid for Co-delivery of siRNA and Photosensitizer *In Vitro*

Minxing Hu ^{1 †}, Jianwei Bao ^{1 †}, Yuanmei Zhang ¹, Lele Wang ¹, Ya Zhang ¹, Jiabin Zhang ¹, Jihui Tang ^{1, *} and Qianli Zou ^{1,2, *}

¹ Research and Industrialization of New Drug Release Technology Joint Laboratory of Anhui Province, School of Pharmacy, Anhui Medical University, Hefei 230032, P. R. China

² Institute of Health and Medicine, Hefei Comprehensive National Science Center, Hefei 230000, P. R. China

* Correspondence: J. Tang, tangjh@ahmu.edu.cn; Q. Zou, qlzou@ahmu.edu.cn

[†]These authors contributed equally to this work.

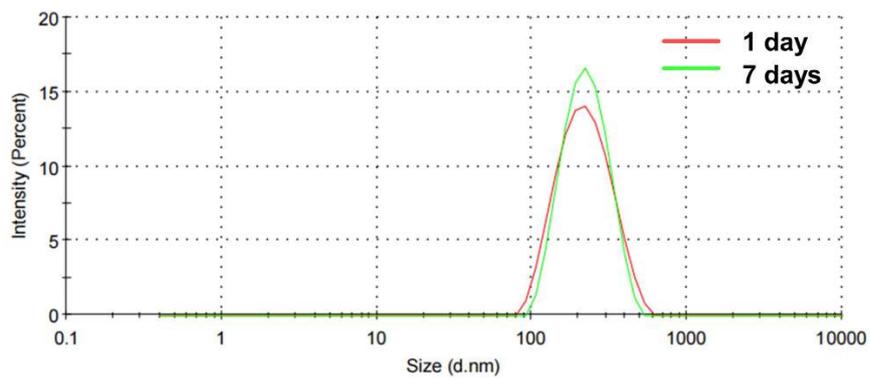


Figure S1. Size distribution of histone-HA NPs aged for 7 days.

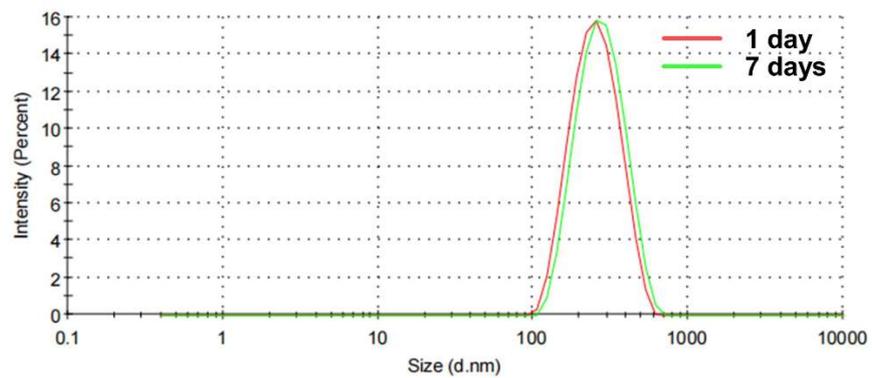


Figure S2. Size distribution of siRNA-Ce6 NPs aged for 7 days.

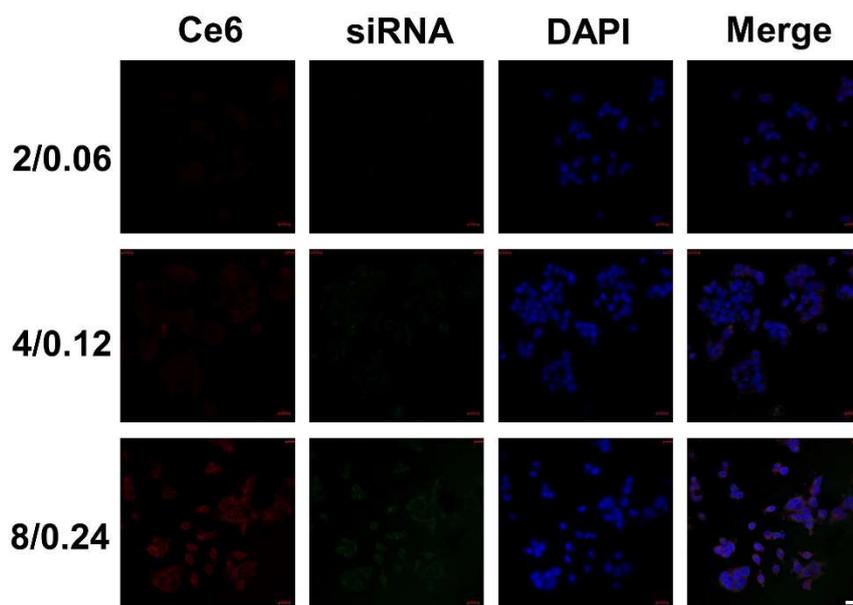


Figure S3. CLSM images of MCF-7 cells incubated with siRNA-Ce6 NPs for 2 h. The concentrations of Ce6 in nanoparticles were 2, 4, and 8 $\mu\text{g mL}^{-1}$, respectively, and siRNA were 0.06, 0.12, 0.24 $\mu\text{g mL}^{-1}$, respectively. Scale bar: 20 μm .

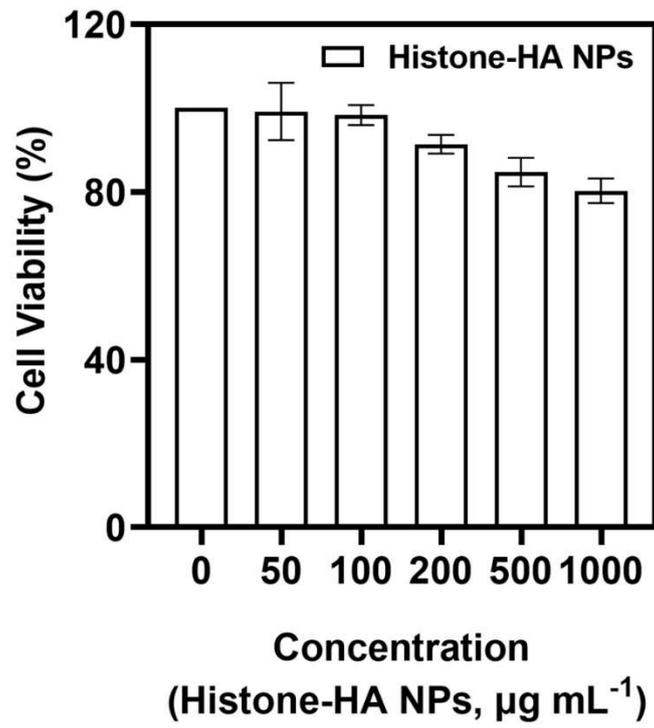


Figure S4. Cell viabilities of MCF-7 cells after treatment with Histone-HA NPs.

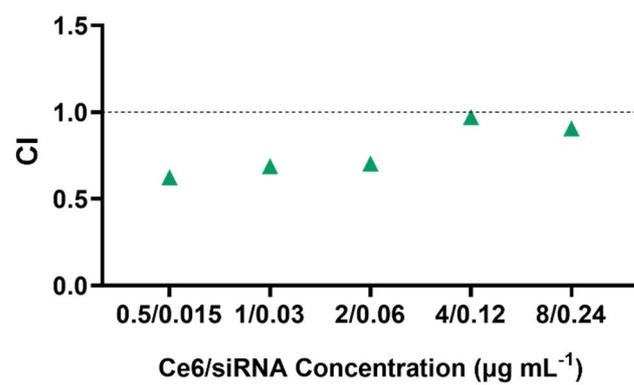


Figure S5. The combination index (CI) values under the different concentration of Ce6-siRNA NPs. CI < 1 is considered to be synergism.

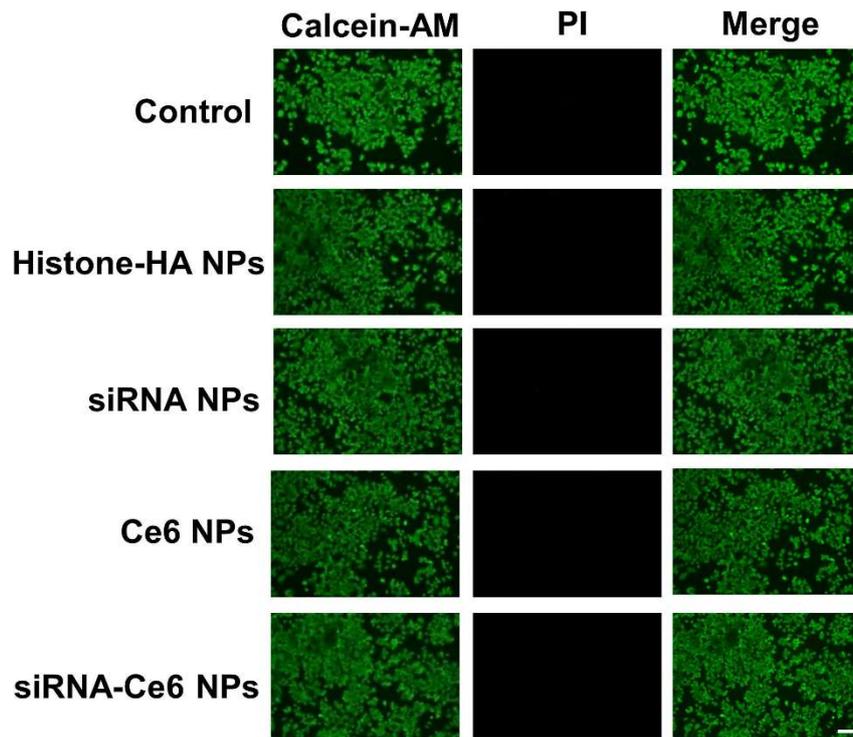


Figure S6. Calcein-AM and PI live-dead cell staining of MCF-7 cells after treatment with histone-HA NPs, siRNA NPs, Ce6 NPs, and siRNA-Ce6 NPs for 24 h. Scale bar: 50 μ m.