

Supporting information

Synthesis and application of AS1411 functionalized gold nanoparticles for targeted therapy of gastric cancer

Yajie Zhang^{1,2}, Jingwei Tan¹, Lu Zhou¹, Xiaoqing Shan¹, Jianling Liu¹, Yong Ma^{1*}

¹ Department of Chemistry, School of Fundamental Sciences, China Medical University, Shenyang 110122, China

² Department of gastroenterology, Shengjing Hospital of China Medical University, Shenyang 110004, China

* Corresponding author

E-mail address: yma10@cmu.edu.cn.

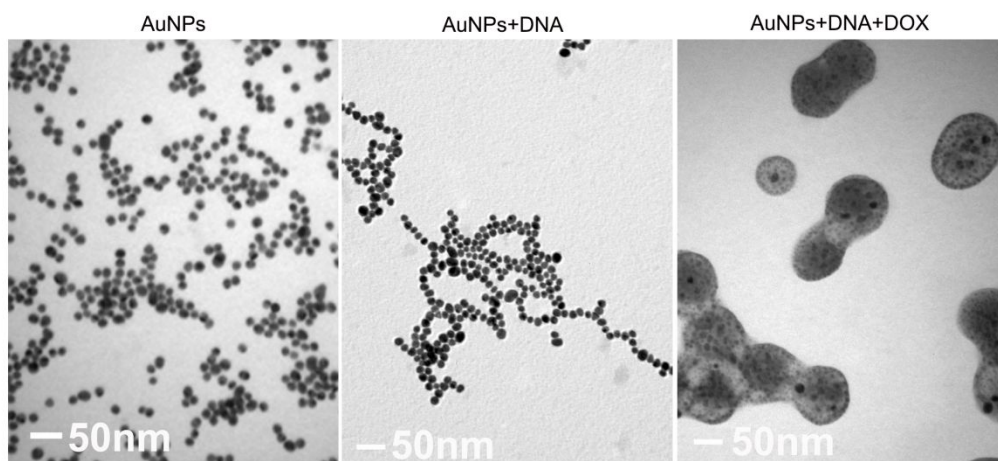


Figure S1. TEM: (The image on the left) AuNPs; (The middle image) AuNPs+DNA (AS1411+Hairpin DNA); (The image on the right) AuNPs+DNA(AS1411+Hairpin DNA)+DOX.

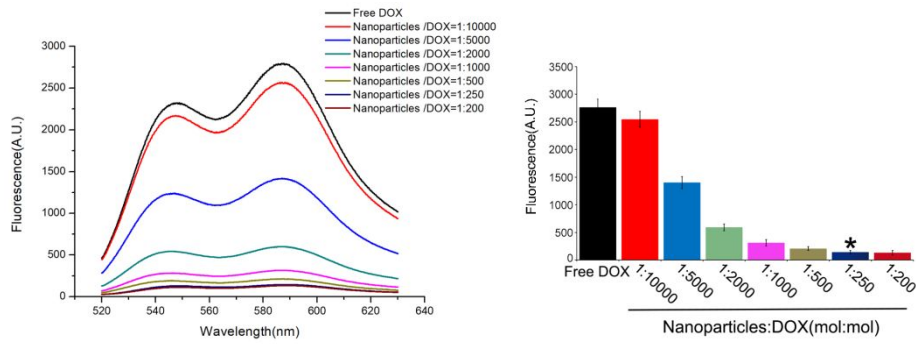


Figure S2. AS1411-based nanoparticles quenching DOX fluorescence. (The image on the left) The curves of DOX fluorescence. (The image on the right) The free DOX fluorescence intensity at $\lambda=590$ nm after being quenched. * $P < 0.05$ compared with other groups except for the group (1:200).

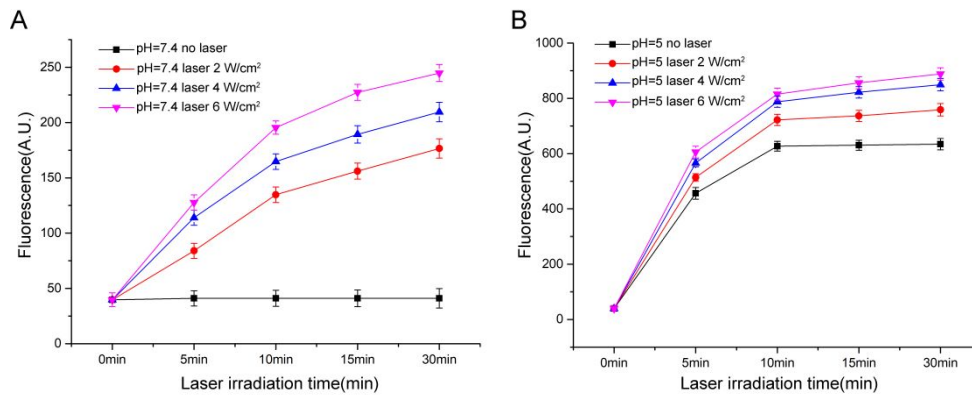


Figure S3. Drug release test. The fluorescence intensity ($\lambda=590$ nm) of DOX under the 808 nm laser irradiation (2, 4, 6 W/cm²) or no laser (dark) for different time periods at pH 7.4 (A) or pH 5.0 (B).