

## Supplementary Materials

### Influence of parameters on the death pathway of gastric cells induced by gold nanosphere mediated phototherapy

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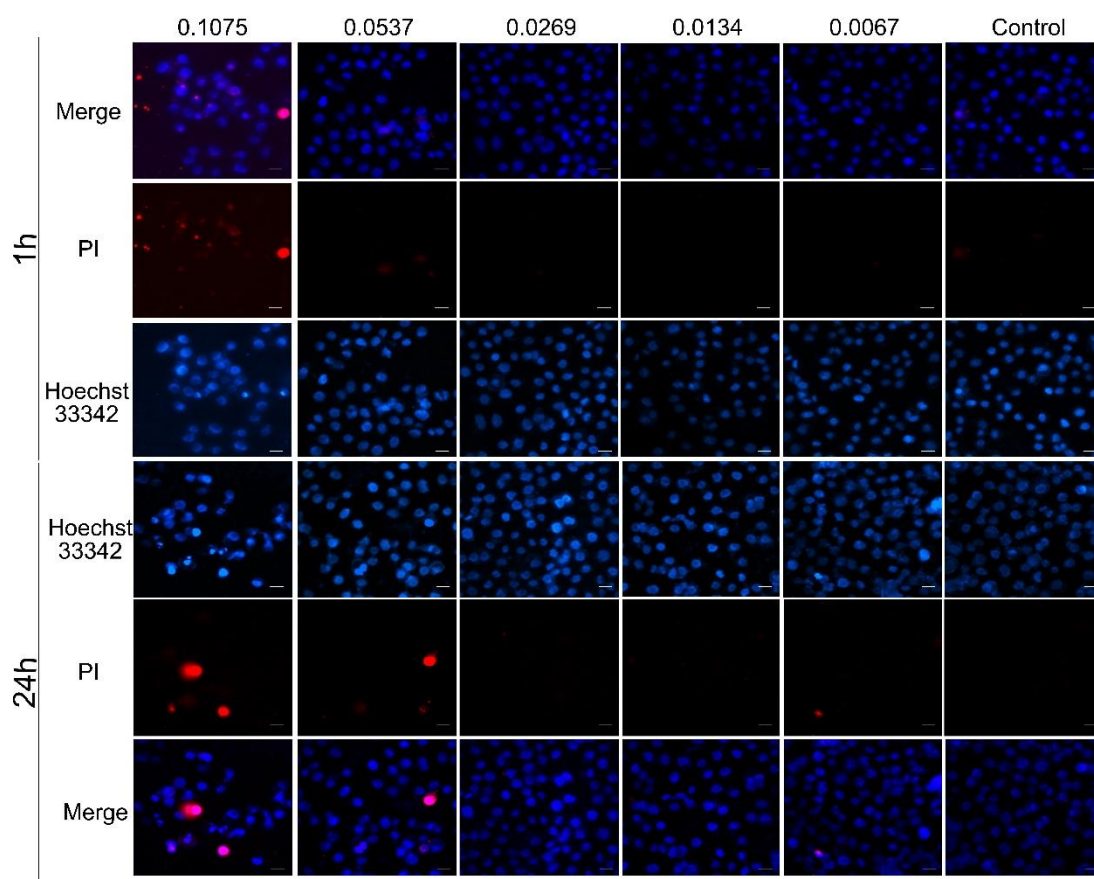
Xi'an Jiaotong University, School of Life Science and Technology, Institute of Biomedical

Photonics and Sensing, Key Laboratory of Biomedical Information Engineering of

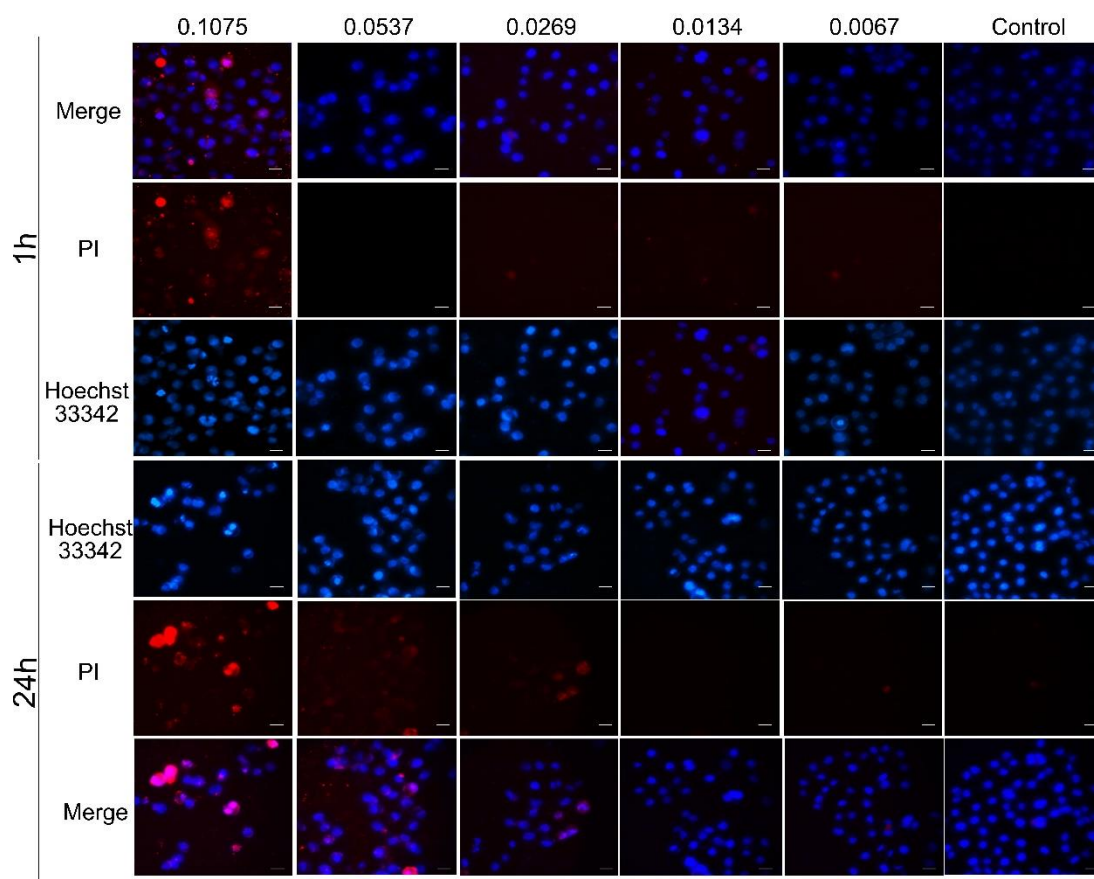
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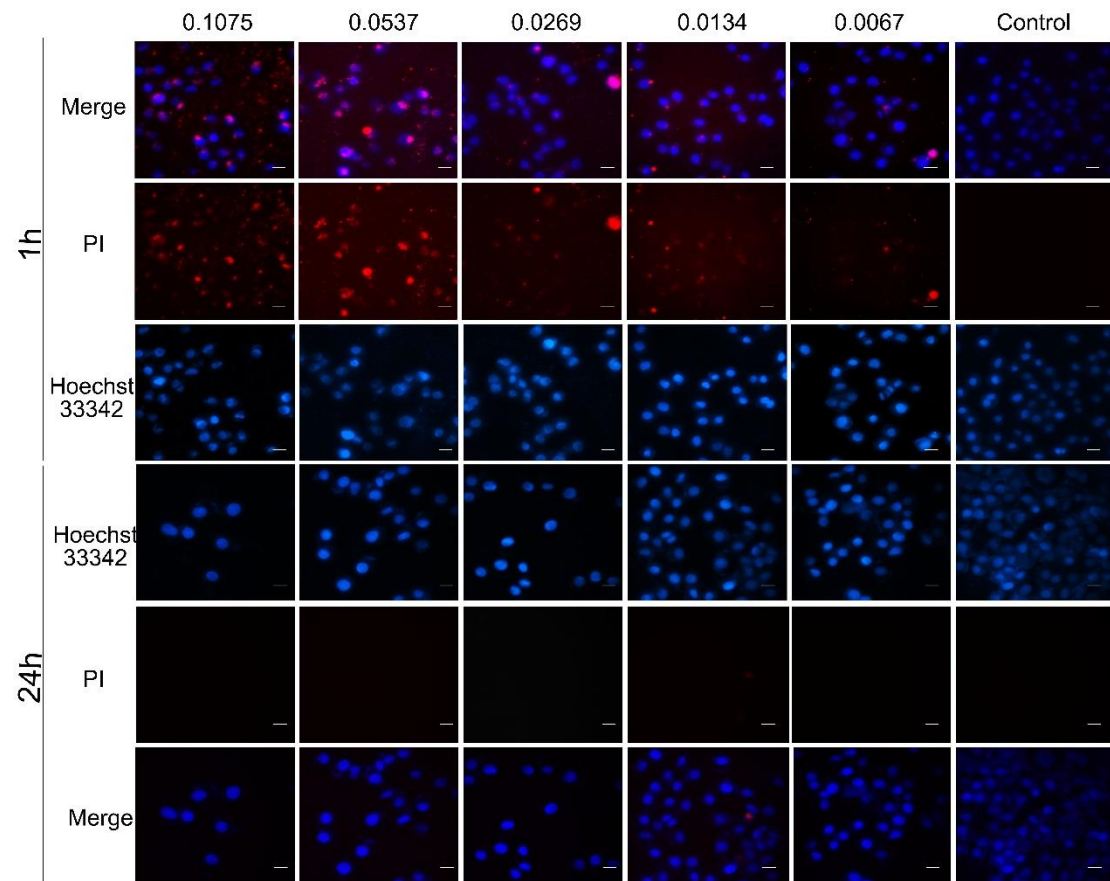
E-mail addresses: zsyxp@mail.xjtu.edu.cn



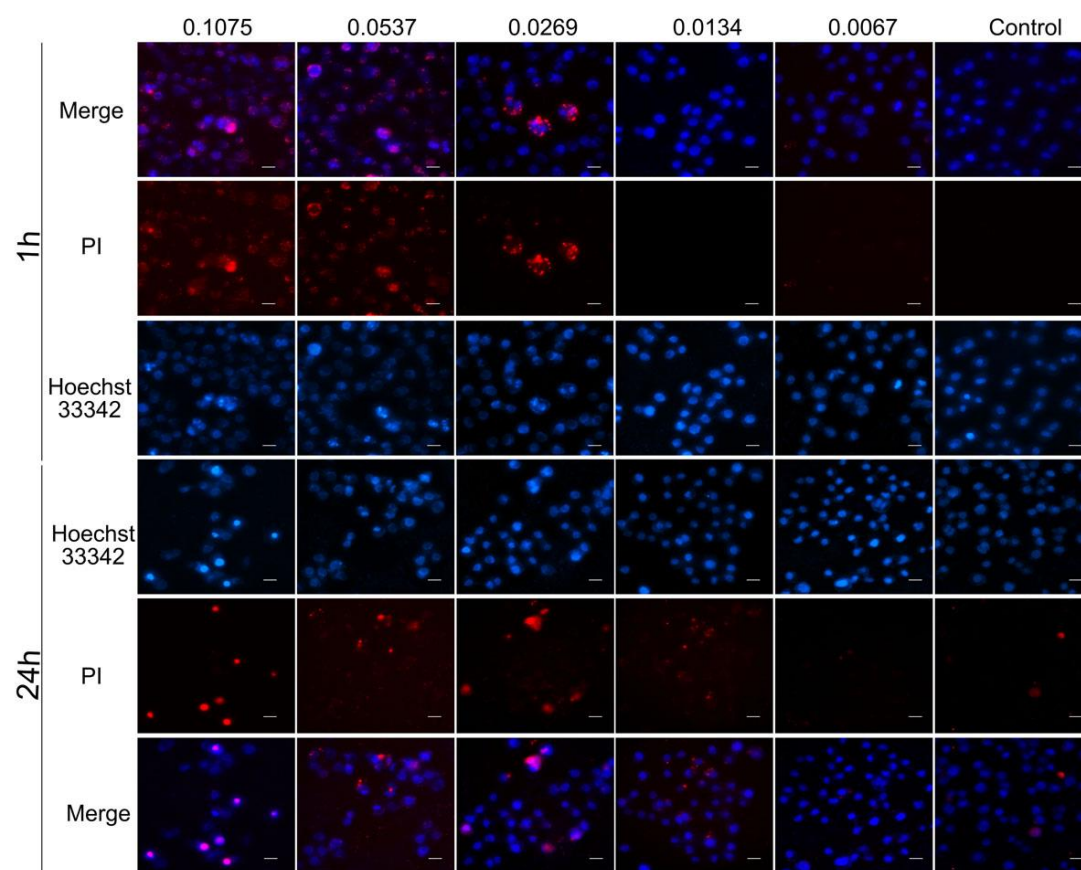
**Figure S1.** Apoptosis and necrosis induced by PEG-AuS irradiated with nanosecond laser at 4 h incubation time and 11.47 mJ/cm<sup>2</sup> irradiation dosage.



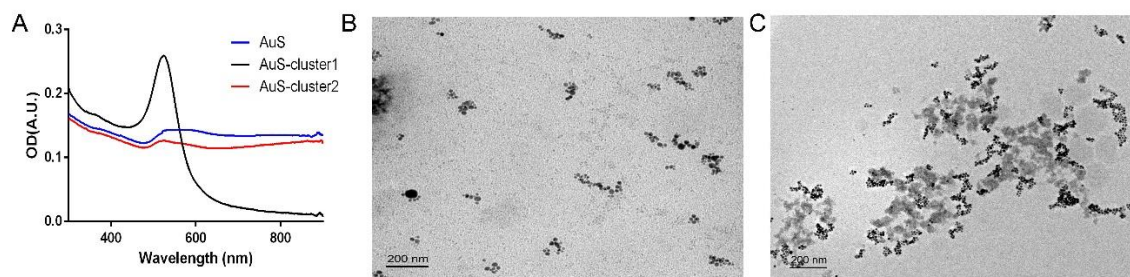
**Figure S2.** Apoptosis and necrosis induced by PEG-AuS irradiated with nanosecond laser at 4 h incubation time and 22.93 mJ/cm<sup>2</sup> irradiation dosage.



**Figure S3.** Apoptosis and necrosis induced by PEG-AuS irradiated with nanosecond laser at 6 h incubation time and 11.47 mJ/cm<sup>2</sup> irradiation dosage.



**Figure S4.** Apoptosis and necrosis induced by PEG-AuS irradiated with nanosecond laser at 6h incubation time and 22.93 mJ/cm<sup>2</sup> irradiation dosage.



**Figure S5.** Properties of AuS cluster. Notes: (A)UV-vis absorption spectra of AuS and AuS cluster. (B, C) Transmission electron microscopy images of cluster 1 and cluster 2.