

Supporting information

Designable NIR-II Light Triggered Biocompatible Theranostic Au NRs for Highly Efficient Photothermal Therapy of Cervical Cancer

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Table S1 Gold nanorods for therapeutic use.

NPs	Ex	Power	PCE	Irradiat		Application	Reference
				ion	Concentration		
				time			
ACZ-P	1064 nm	1 W/cm ²	27.54 %	5 min	100 µg/mL	Osteosarcoma	[1]
Pt/Au NTs- DTX/PCM	808 nm	0.5 W/cm ²	27.4 %	10 min	40 µg/mL	Triple- negative breast cancer	[2]
VPNS/AuNR	808 nm	1 W/cm ²	38%	10 min	100 µg/mL	Skin wound infection	[3]
Au@MOF	808 nm	0.8 W/cm ²	30.2 %	10 min	200 ppm	Cervical cancer	[4]
AuNRs@SiO ₂ - RB@MnO ₂	1064 nm	1 W/cm ²	54%	10 min	100 µg/mL	Breast Cancer	[5]
AuNRs@ZnO @mPDA-TD	808 nm	1.5 W/cm ²	55.88 %	10 min	100 µg/mL	Human hepatocellular carcinoma cells	[6]
AuNRs@TFF	1064 nm	1 W/cm ²	38.86 %	10 min	50 µg/mL	Breast Cancer	[7]
Au NRs@PEG	1064 nm	0.4 W/cm²	60.89 %	10 min	25 µg/mL	Cervical cancer	our work

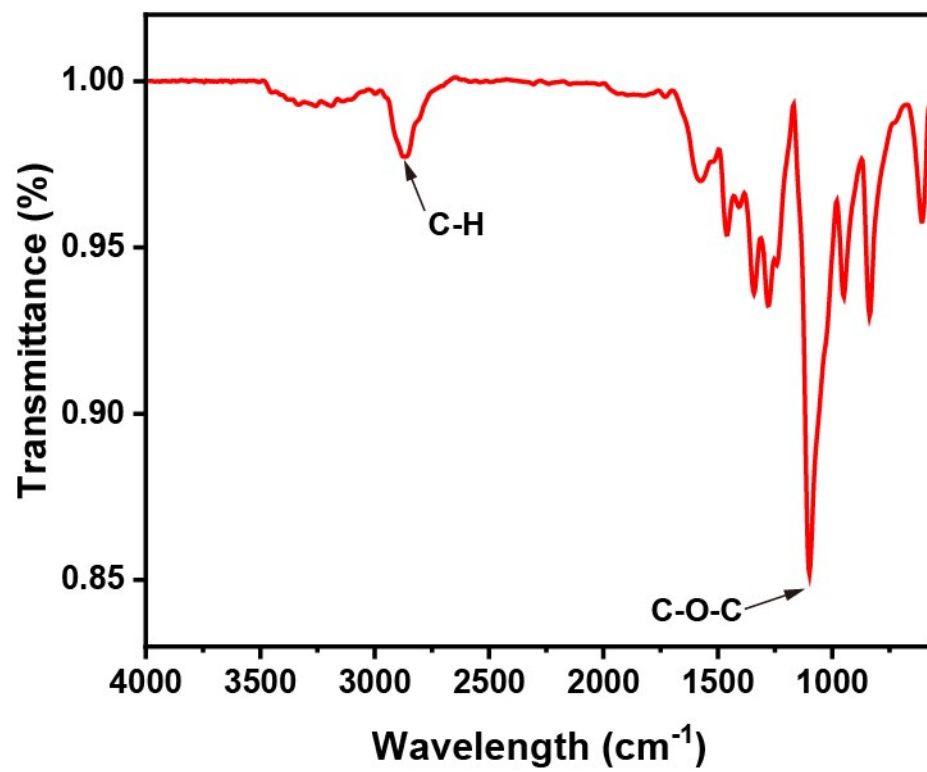


Fig. S1. FT-IR spectrum of Au NRs@PEG.

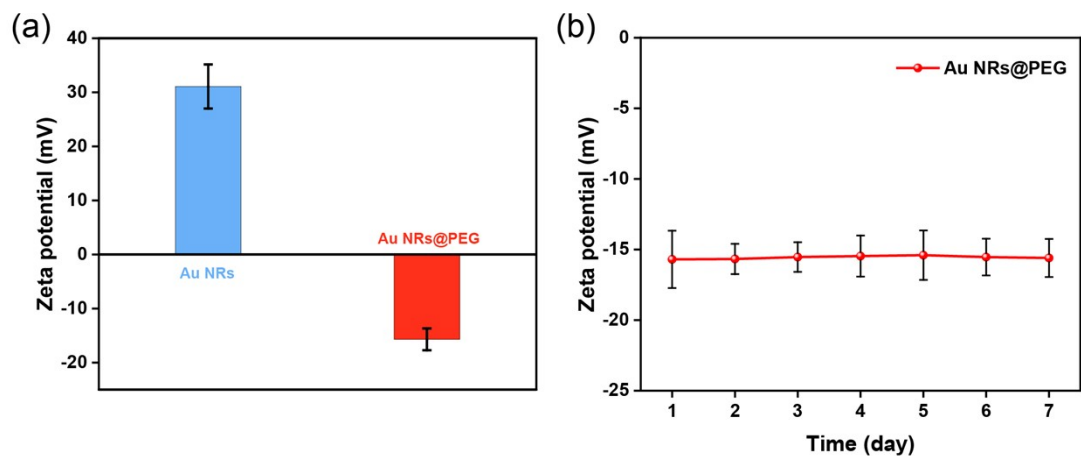


Fig. S2. (a) Zeta potential characterization of Au NRs and Au NRs@PEG. (b) Time-dependent variation in Zeta potential of Au NRs@PEG over a 7-day period.

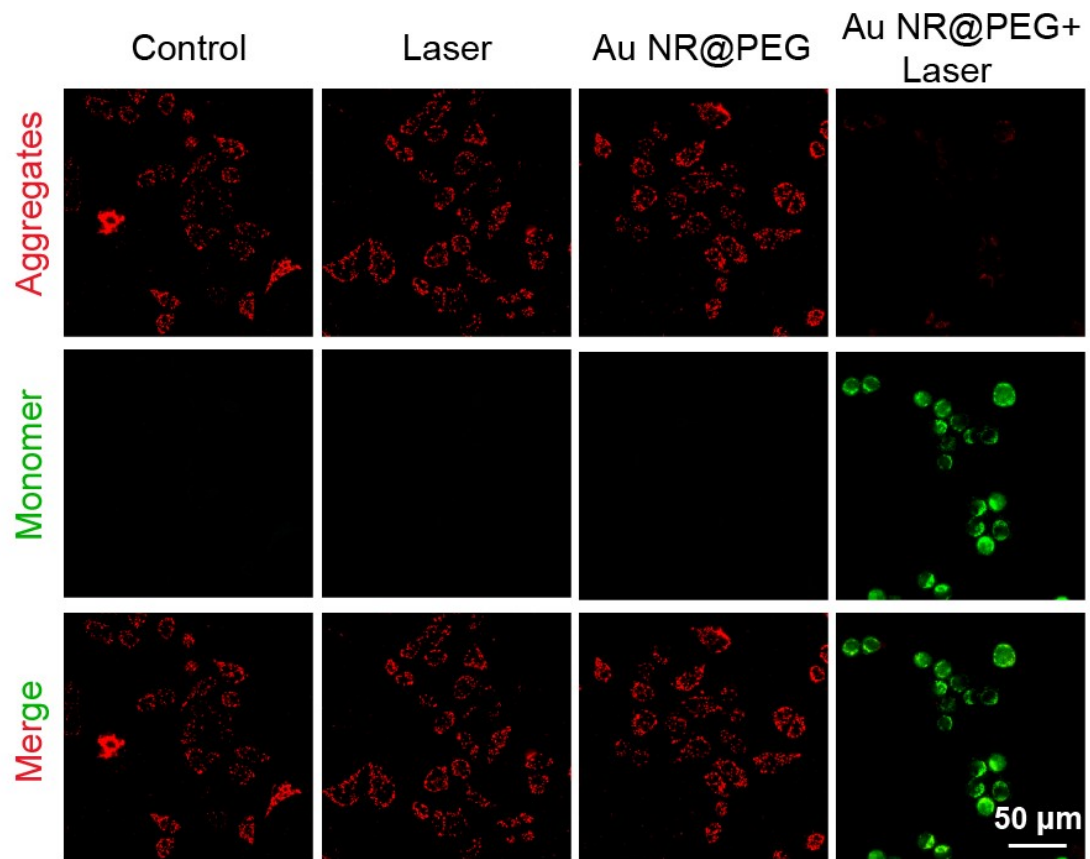


Fig. S3. Mitochondrial membrane potential detected by JC-1 fluorescent probe. (Scale bar = 50 μ m)

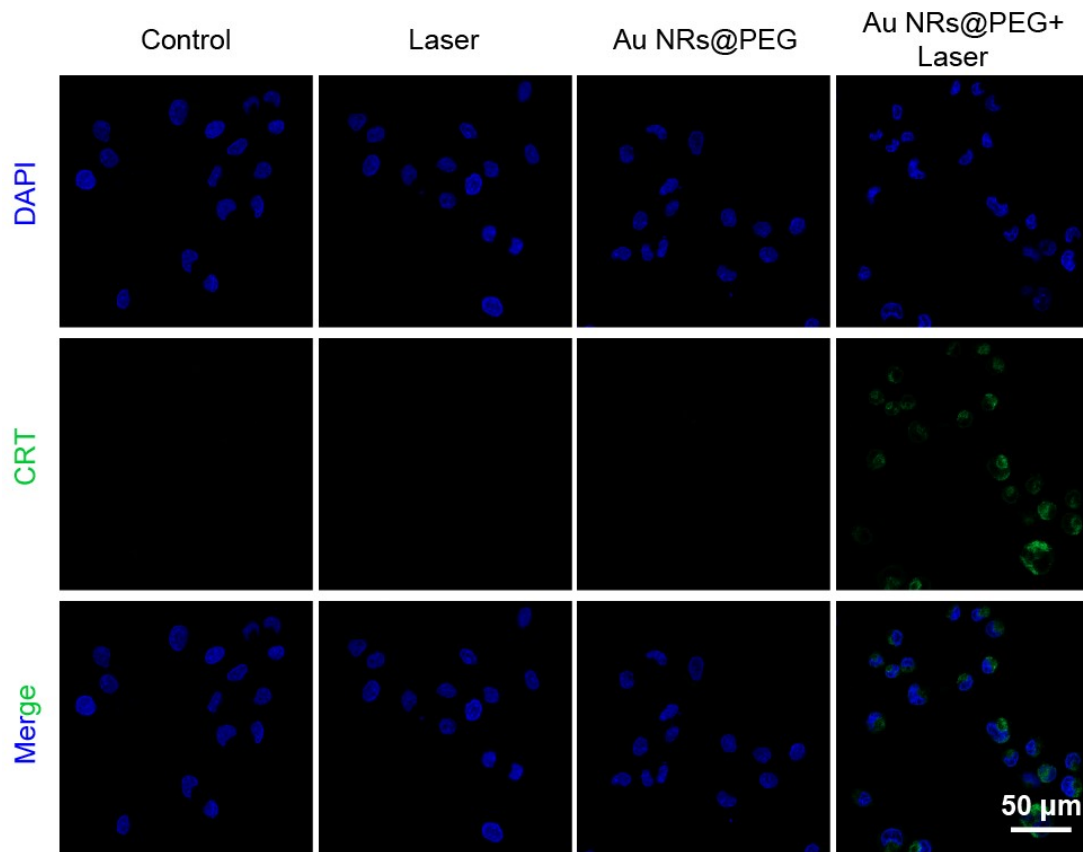


Fig. S4. Immunofluorescence staining of CRT in HeLa cells following various treatments. (Scale bar = 50 μm)

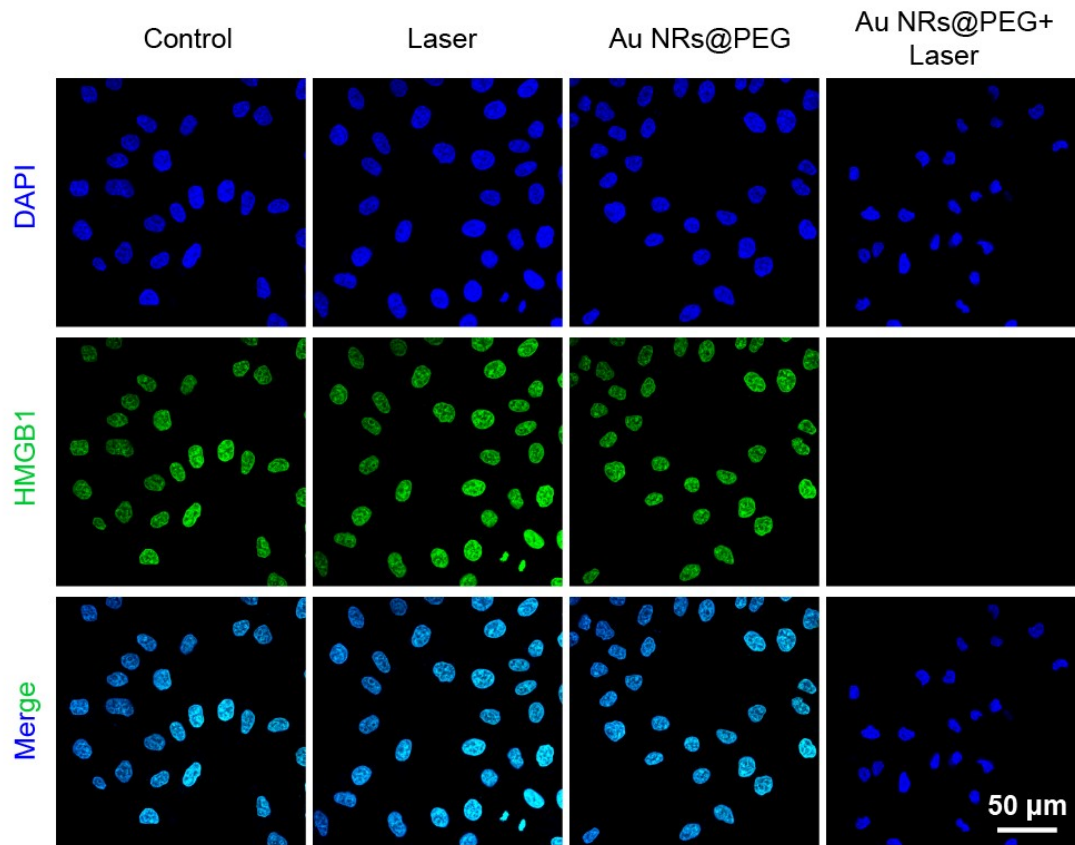


Fig. S5. Immunofluorescence staining of HMGB1 in HeLa cells following various treatments. (Scale bar = 50 μm)

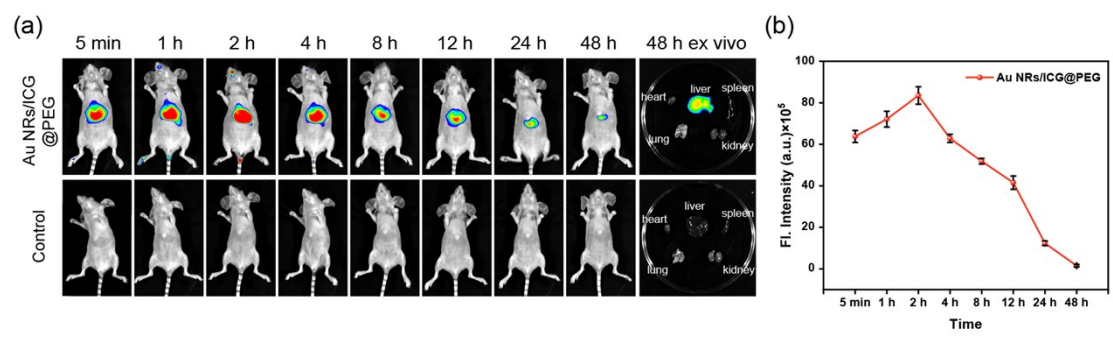


Fig. S6. (a) NIR-I fluorescence imaging of ICG-loaded Au NRs@PEG in nude mice at different time points. (b) Quantitative analysis of fluorescence intensity at the corresponding time points.

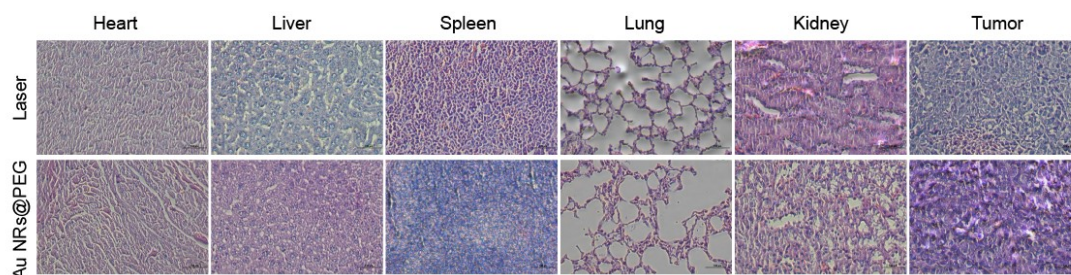


Fig. S7. H&E staining of tumors and organs isolated from mice in the laser group and Au NRs@PEG group. Scale bar = 50 μm for all images

Reference

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