

Supporting Information

**Combined Near-IR Photothermal Therapy and Chemotherapy Using
Gold-Nanorod/Chitosan Hybrid Nanospheres to Enhance Antitumor Effect**

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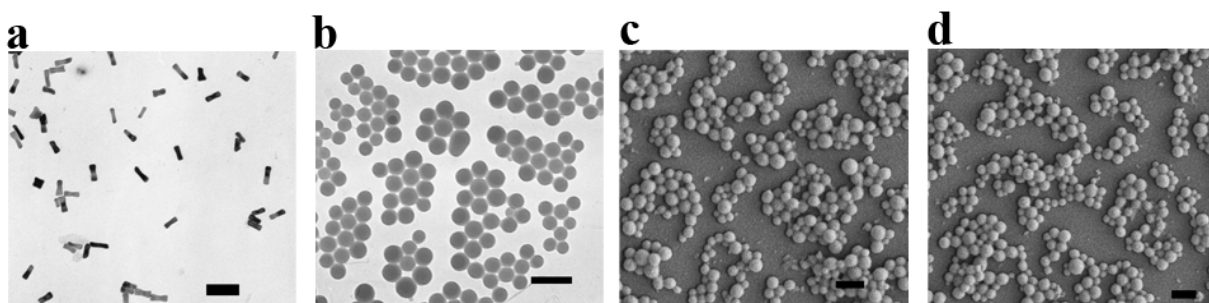


Fig. S1 TEM images of (a) AuNR (scale bar = 100 nm) and (b) CS NSs (bar = 200 nm); SEM images of (c) CS NSs (bar = 200 nm) and (d) CS-AuNR NSs (bar = 200 nm).

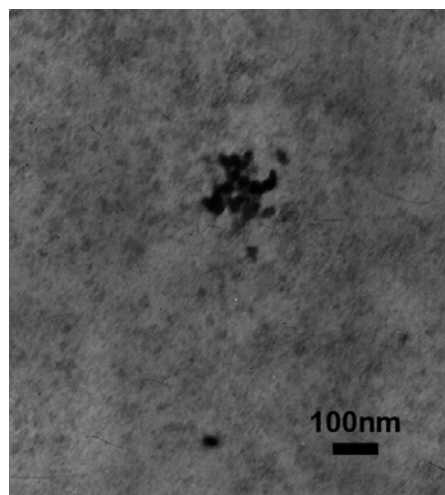


Fig. S2 TEM image of tumor tissue at 8 h after i.v. injection of CS-AuNR NSs.

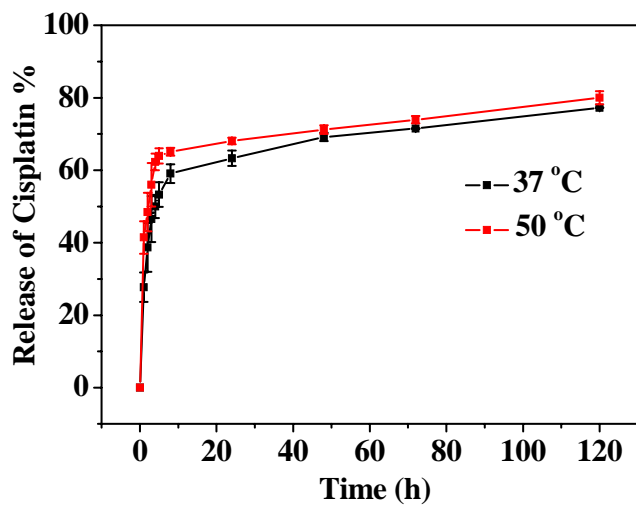


Fig. S3 Cumulative cisplatin release profile from CS-AuNR NSs in PBS with pH 7.4 at 37°C and 50°C.

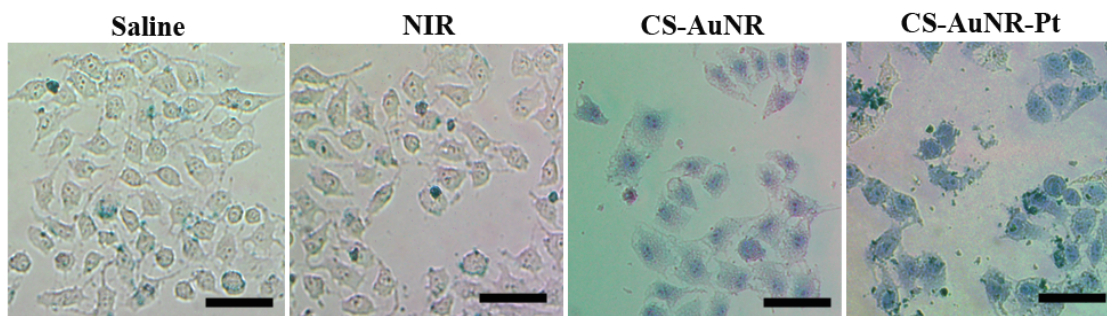


Fig. S4 Microscopic images of HeLa cells incubated with different NSs and exposed to laser at 10 W/cm² for 3 min. Cells were stained with trypan blue (0.4%) and scale bar=20μm.

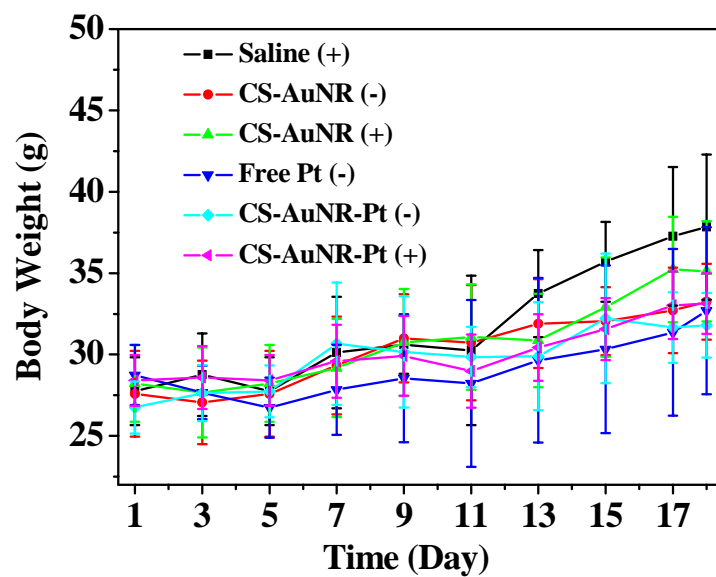


Fig. S5. Mean body weights of mice with different treatment.

Table S1 The DLS data of CS-AuNR NSs at different medium.

Samples	Size (polydispersity)
water	120.2 nm (0.058)
DMEM	125.0 nm (0.131)
blood serum	129.8 nm (0.151)

Table S2 Hematology analysis and blood biochemical assay.

	CS-AuNR	AuNR	Saline
WBC ($10^9/L$)	4.2±0.4	4.2±0.3	4.6±1.4
RBC ($10^{12}/L$)	10.3±0.6	9.2±0.4	10.0±0.4
LY (%)	85.1	88.6±2.6	84.9
GR (%)	7.9	5.4	8.0
MO (%)	2.9 ±0.8	1.3±0.5	2.5 ±0.4
HGB (g/L)	141.5±9.5	147±10	142±0.5
MCV (fl)	49.3±0.5	49.7±1.2	49.6±1.3
MCH (pg)	15.8±0.1	15.9±0.3	15.8±0.7
MCHC (g/L)	320±3	320.5±1.5	318±5
MPV (fl)	49.3±0.5	45.6±3.0	44.6±0.9
PLT ($10^9/L$)	1097±41	1068±80	1072±82
AST (U/L)	138.5±17.4	143.1±4.6	134.7±1.7
ALT (U/L)	43.3±1.0	53.0±8.9	41.0±2.3
TBIL ($\mu\text{mol/L}$)	0.3	0.2	0.5
CRE (mmol/L)	7±0	7.5 ±0.5	6.5±1
BUN ($\mu\text{mol/L}$)	10±0.7	10.1±0.2	10.1±0.5