# Fabrication of Poly Dopamine@poly (Lactic Acid-Co-Glycolic Acid) Nanohybrids for Cancer Therapy via a Triple Collaboration Strategy

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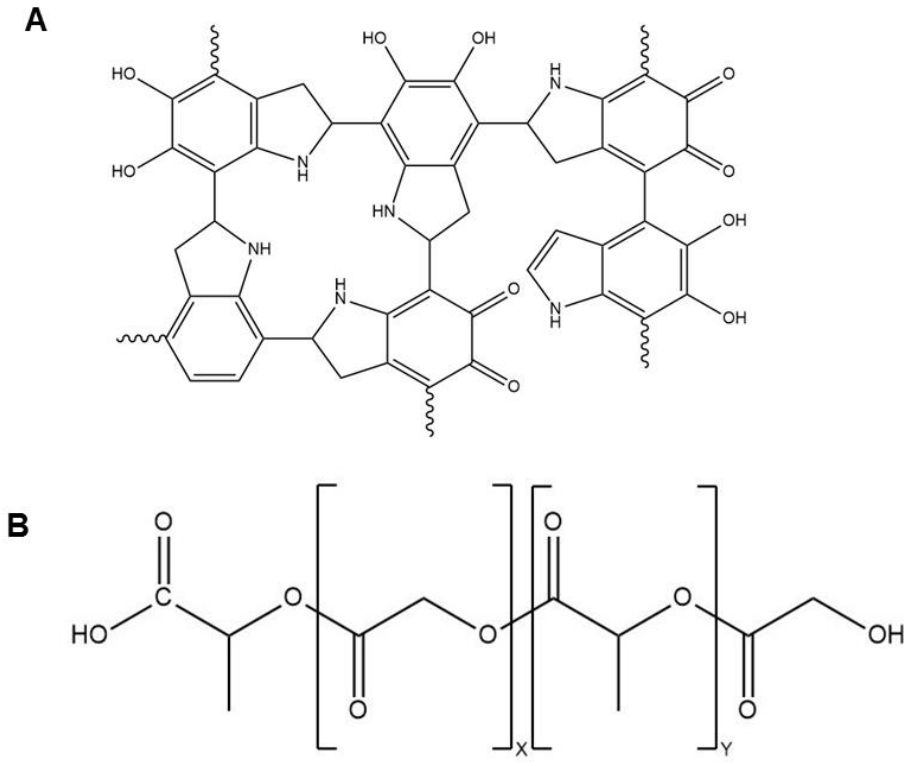


**Figure S1.** The structure PDA (A) and PLGA (B).

**Table S1.** Influence of the mass of DOX on encapsulation efficiency (EE) and loading content (LC) of PDA@PLGA/DC NPs.

| PLGA (mg) | DOX ( μg) | EE (%) | LC (%) |
|---|---|---|---|
| 10 | 100 | 0 | 0 |
| 10 | 200 | 0 | 0 |
| 10 | 300 | 33 | 0.99 |
| 10 | 400 | 40 | 1.6 |
| 10 | 500 | 16.5 | 0.83 |

**Table S2.** Influence of the mass of CA4 on encapsulation efficiency (EE) and loading content (LC) of PDA@PLGA/DC NPs.

| PLGA (mg) | CA4 ( μg) | EE (%) | LC (%) |
|---|---|---|---|
| 10 | 100 | 41.8 | 0.42 |
| 10 | 200 | 23.4 | 0.47 |
| 10 | 300 | 0 | 0 |
| 10 | 400 | 0 | 0 |
| 10 | 500 | 0 | 0 |

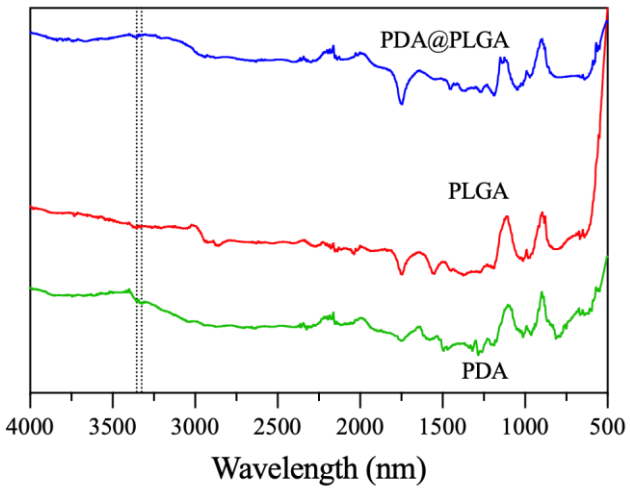


**Figure S2.** FT-IR spectra of PDA@PLGA NPs , PLGA NPs and PDA NPs.

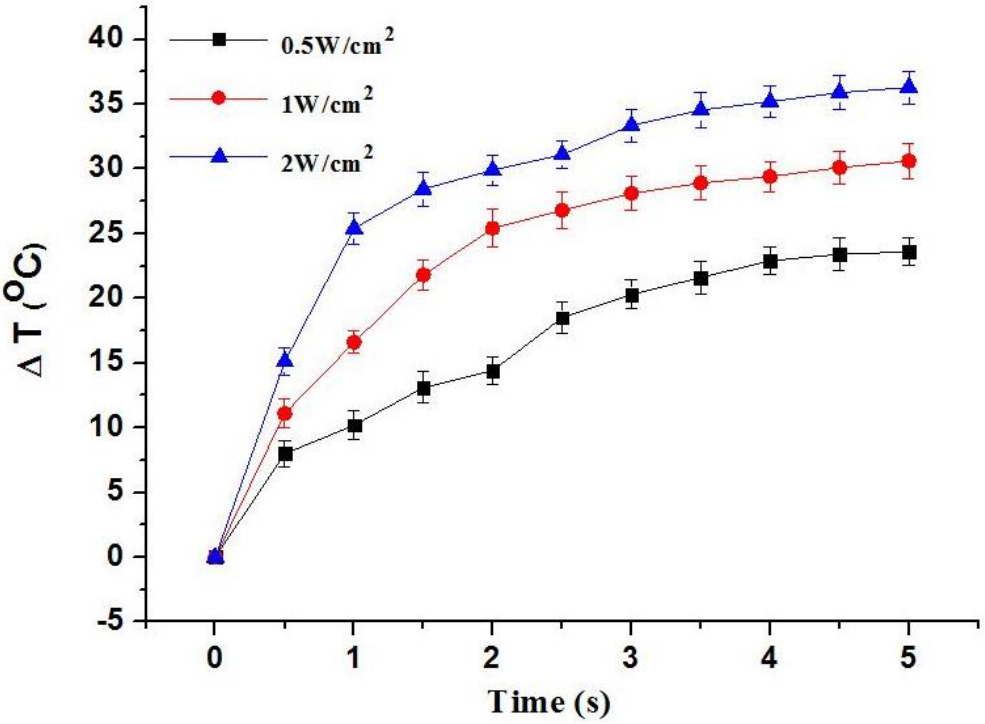


**Figure S3.** Temperature variation curves of PDA@PLGA/DC NPs at various power intensities with the same concentration at 150 μg/mL.

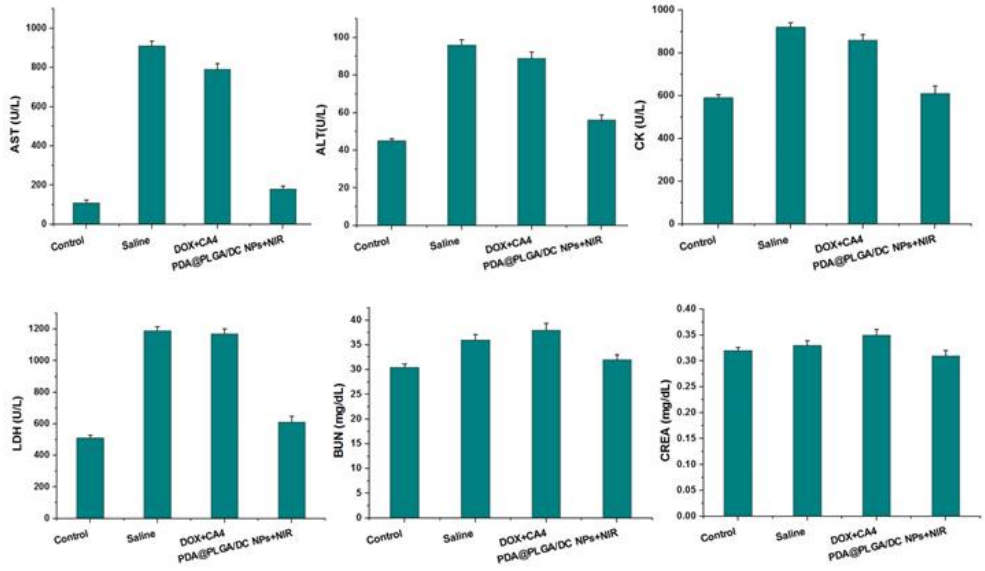


**Figure S4.** Serum biochemical examination of drug-loaded nanoparticles treated mice by saline, free DOX+CA4 and PDA@PLGA/DC NPs+NIR. Normal BALB/c mice served as the control group. Data were presented as mean± SD (n=5). Hepatic function indicators: AST, aspartate transaminase, ALT, alanine aminotransferase; Cardiac function indicators: CK, creatine kinase, LDH, lactate dehydrogenase; Renal function indicators: BUN, blood urea nitrogen, CREA, creatinine.