

Supplementary

Surface-Fabrication of Fluorescent Hydroxyapatite for Cancer Cell Imaging and Bio-Printing Applications

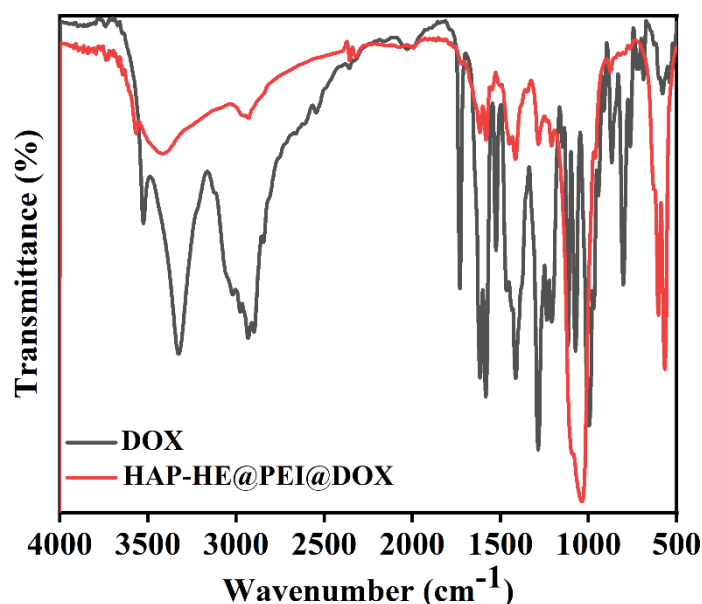


Figure S1. Normalized FT-IR spectra of DOX and HAP-HE@PEI@DOX samples.

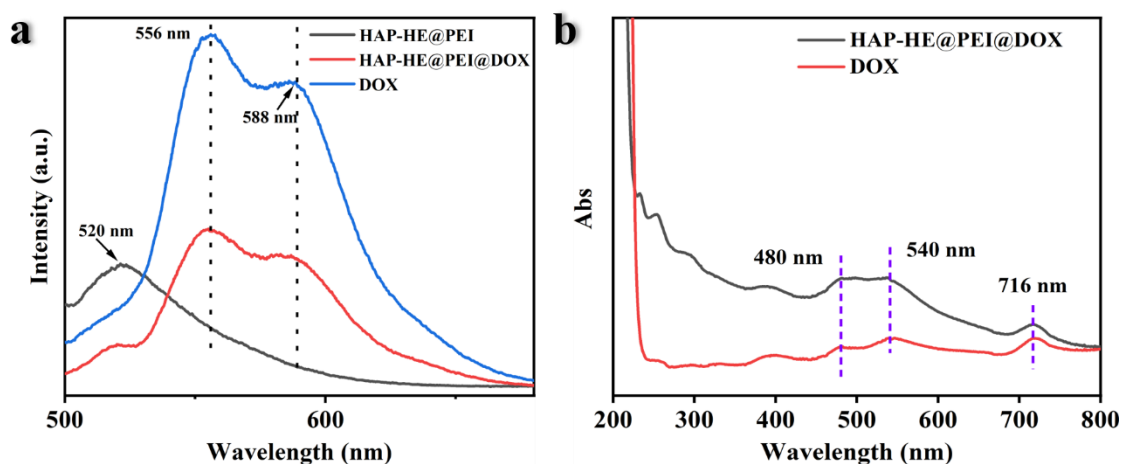


Figure S2. Fluorescence and UV-vis spectra of HAP-HE@PEI@DOX and DOX. (a) FL Spectrum (Excitation wavelength: 480 nm); (b) UV-Vis Spectrum.

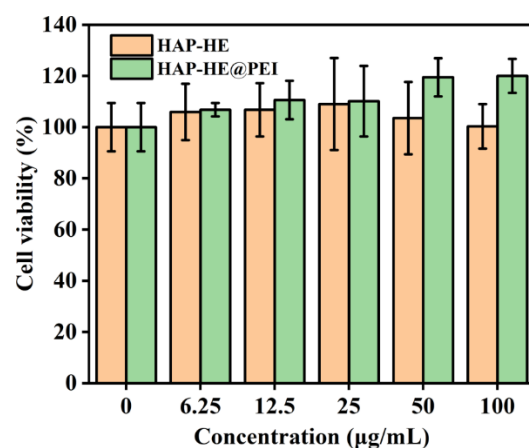


Figure S3. Determination of cell viability of HAP-HE, HAP-HE@PEI with equal concentration gradient. The cell survival viability of A549 cells co-incubated with gradient mass concentration of HAP-HE and HAP-HE@PEI for 24 h.

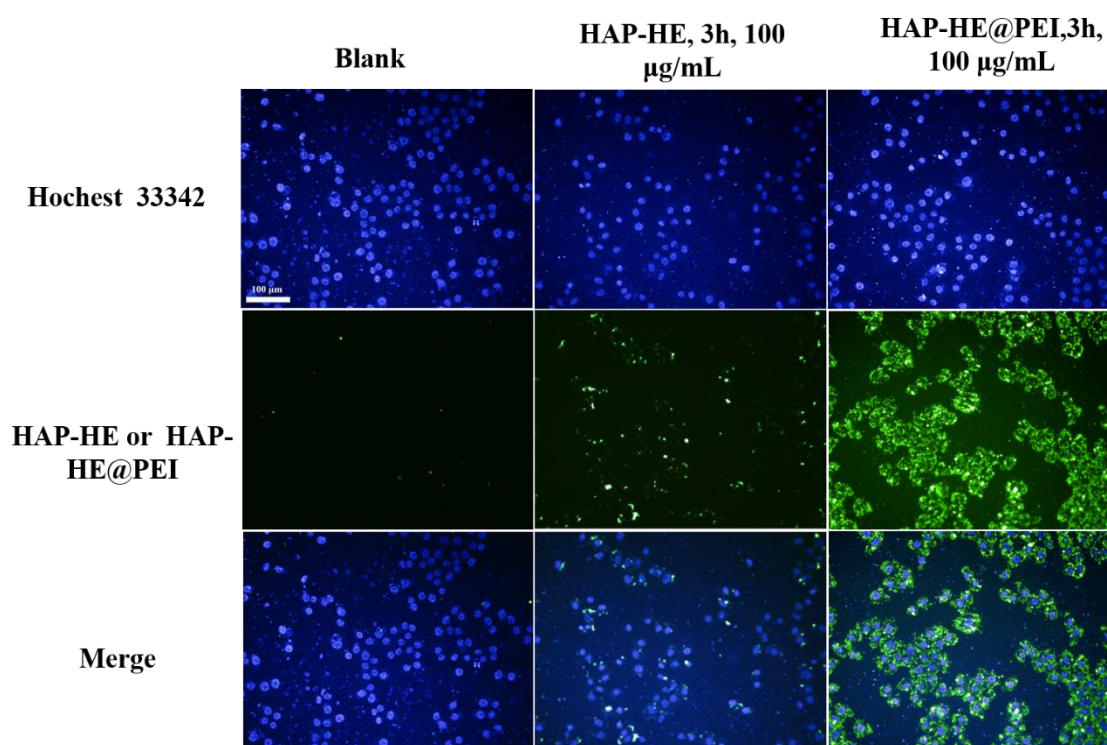


Figure S4. High-content imaging images of A549 cells co-incubated with 100 µg/mL of HAP-HE for 3h (HAP-HE@PEI: Ex= 440 nm, Em= 520 nm; Hochest 33342 for nucleus: Ex= 346 nm, Em= 460 nm).

Table S1. The percentage of each element of HAP, HAP-HE and HAP-HE@PEI.

	C (%)	N (%)	O (%)	P (%)	Ca (%)
HAP	15.78	4.45	50.67	12.84	16.26
HAP-HE	18.18	6.10	48.29	12.13	15.30
HAP-HE@PEI	51.67	18.18	19.35	5.21	5.28