**SUPPLEMENTARY FIGURES**

**Figure S1:** FTIR spectra of PCLGC, PCLGC-IR NPs and IR 820.

**Figure S2:** UV-visible absorbance of PCLGC-IR composite nanoparticles optimization in different solvent and their subsequent SEM images.

**Figure S3:** UV-visible absorbance of PCLGC-IR composite nanoparticles with various concentration of PCL
Supplementary Figure S2

Supplementary Figure S3