

Targeted delivery of reduced graphene oxide nanosheets using multifunctional ultrasound nanobubbles for visual and enhanced photothermal therapy [Corrigendum]

Liu Z, Zhang J, Tian Y, Zhang L, Han X, Wang Q, Cheng W.
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Page 7864, Figure 2G, the incorrect image has been used, the correct figure is shown below.

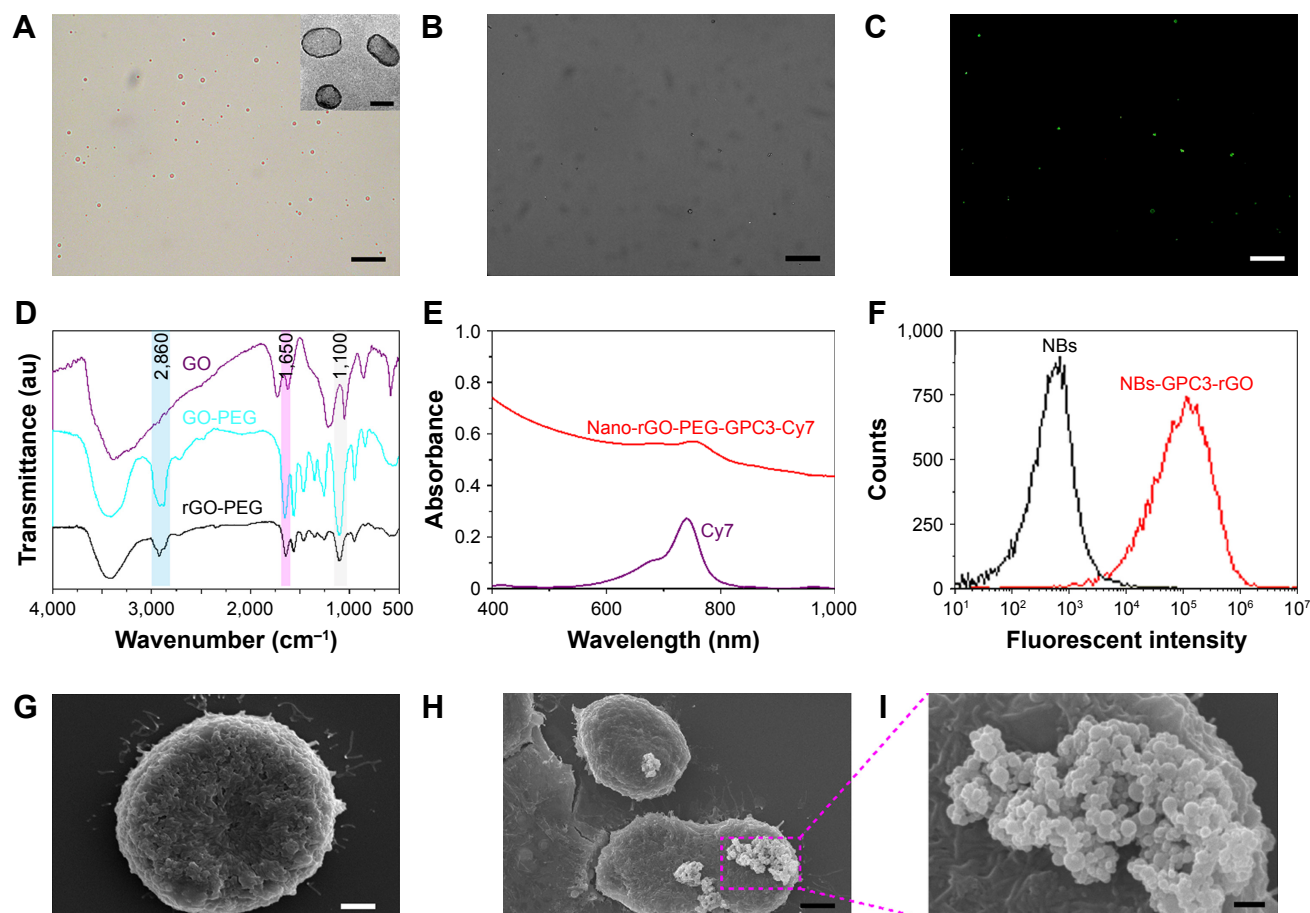


Figure 2 Characterization of nanobubbles, proof the chains are convoluted together.

Notes: Bar in **A–C** is 10 μm , inset in Figure 2A, bar=100 nm, bar in **G** and **H**=4 μm , bar in **I**=0.6 μm . **(A)** Nanobubbles (NBs) in suspension were milk white in color. Pure NB solution was observed under a light microscope (magnification, 1,000 \times). **(B)** Avidinylated nanobubbles were observed under a light microscope (magnification, 1,000 \times). **(C)** Nanobubbles conjugated with FITC-labeled avidin under fluorescence microscopy (magnification, 1,000 \times). The surface of nanobubbles appeared green under fluorescence microscopy, indicating that FITC-labeled avidin was packaged on the NB surface. **(D)** Fourier transform infrared (FTIR) spectra of graphene oxide-polyethylene glycol (GO-PEG) and reduced graphene oxide (rGO)-PEG. The GO-PEG and rGO-PEG sample was filtered over three times through a 100 kDa molecular weight cutoff (MWCO) filter to completely remove any unconjugated PEG (10 kDa). **(E)** AUV-vis-near-infrared (NIR) spectrum of nano-rGO-PEG-GPC3-Cy7 and free Cy7 dye solution. **(F)** Binding efficiency of biotinylated FITC-labeled rGO-PEG-GPC3 with avidinylated NBs was determined by flow cytometry. Comparison of the fluorescence intensities for NBs (black line, control) and FITC-labeled NBs-GPC3-rGO (red line) implies successful binding of rGO-PEG-GPC3 with avidinylated NBs. **(G)** Scanning electron microscopy revealed normal surface morphology of the Hep G2 cells (4,000 \times). Under scanning electron microscopy, targeted NBs-GPC3-rGO were clustered on the surface of the Hep G2 cells (**H** and **I**, 4,000 \times and 10,000 \times , respectively).

Abbreviation: GPC3, heparin sulfate proteoglycan glypican-3.

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