Supporting Information

Facile Synthesis of Gold/Gadolinium-doped Carbon Quantum Dot Nanocomposite for Magnetic Resonance Imaging and Photothermal Ablation Therapy

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**Figure S1.** Representative UV-Vis-NIR absorption spectrum of Gd@CQDs

**Figure S2.** Representative UV-Vis-NIR absorption spectrum of (a) HAuCl₄ (b) Gd@CQDs (c) HAuCl₄-Gd@CQDs complex without heating (d) Au/GdC nanocomposite at 80 °C for 120 min.
Figure S3. Representative XRD Spectrum of Au/GdC nanocomposite
Figure S4. Electron microscopic observations. (A) TEM image (B) HR-TEM images.
Figure S5. DLS histogram of the Au@GdC nanocomposite
Figure S6. Effect of various concentrations of Au/Gd on survival and hatching rates of zebrafish grown to 96 hpf.
Figure S7. UV-Visible-NIR spectra of the nanocomposite before and after irradiation with the NIR laser (808 nm, 2 W/cm²).