Supporting Information

Carbon quantum dot modified with hyperbranched polyglycerol for bioapplication: Improved photostability and temperature selectivity

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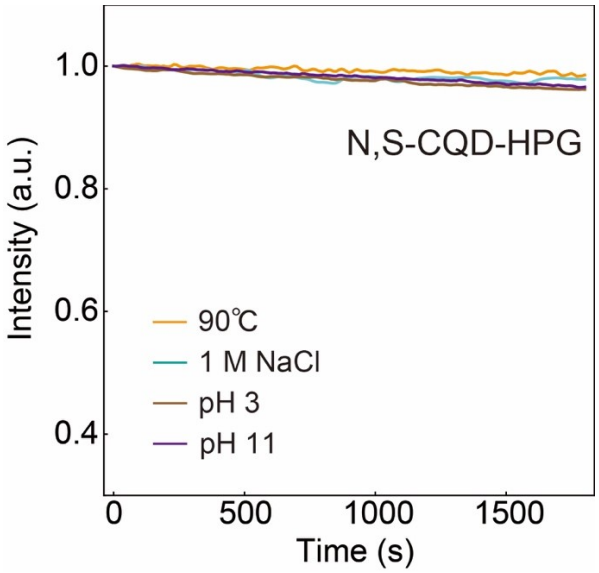

Fig. S1. Relative change in fluorescence intensity of N,S-CQD-HPG under excitation at 350 nm every 10 seconds under conditions of 90°C, 1 M NaCl, pH 3, and pH 11.

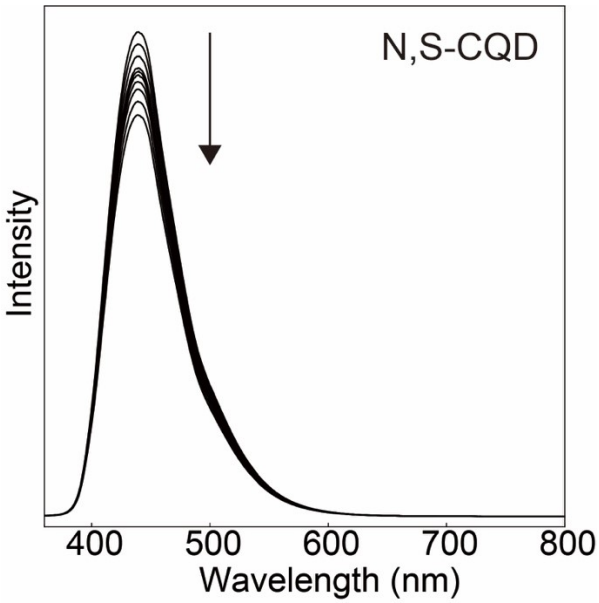

Fig. S2. Fluorescence spectra of N,S-CQD measured consecutively 10 times, showing a decrease in fluorescence intensity with repeated measurements.

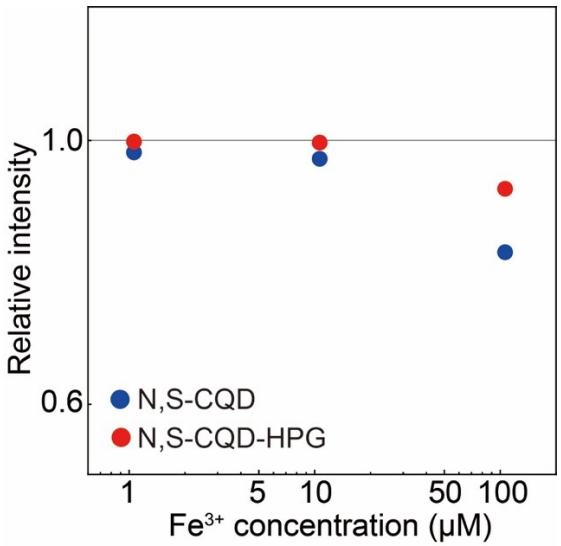

Fig. S3. Normalized fluorescence intensity of N,S-CQD and N,S-CQD-HPG in a solution containing Fe^{3+} ions at concentrations ranging from 1 to 100 μM.