Electronic Supplementary Information

A Gold Nanorod Based Colorimetric Probe for Rapid and Selective Detection of Cu^{2+} Ions

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Fig. S1. Effect of the aspect ratio of AuNR on the detection of Cu$^{2+}$. The results show that the AuNRs with aspect ratios of 2.0, 2.3, and 2.8 gave comparable detecting ability for Cu$^{2+}$. Moreover, the AuNR with the aspect ratio of 2.3 offered a clear color change in detecting Cu$^{2+}$. The response refers to the ratio of the maximum absorbance in the presence of Cu$^{2+}$ to the absorbance at the maximum absorption wavelength for the original longitudinal absorption band of the AuNR in the presence of Cu$^{2+}$. Incubation was conducted in HAc-NaAc buffer (10 mM, pH = 4.0).