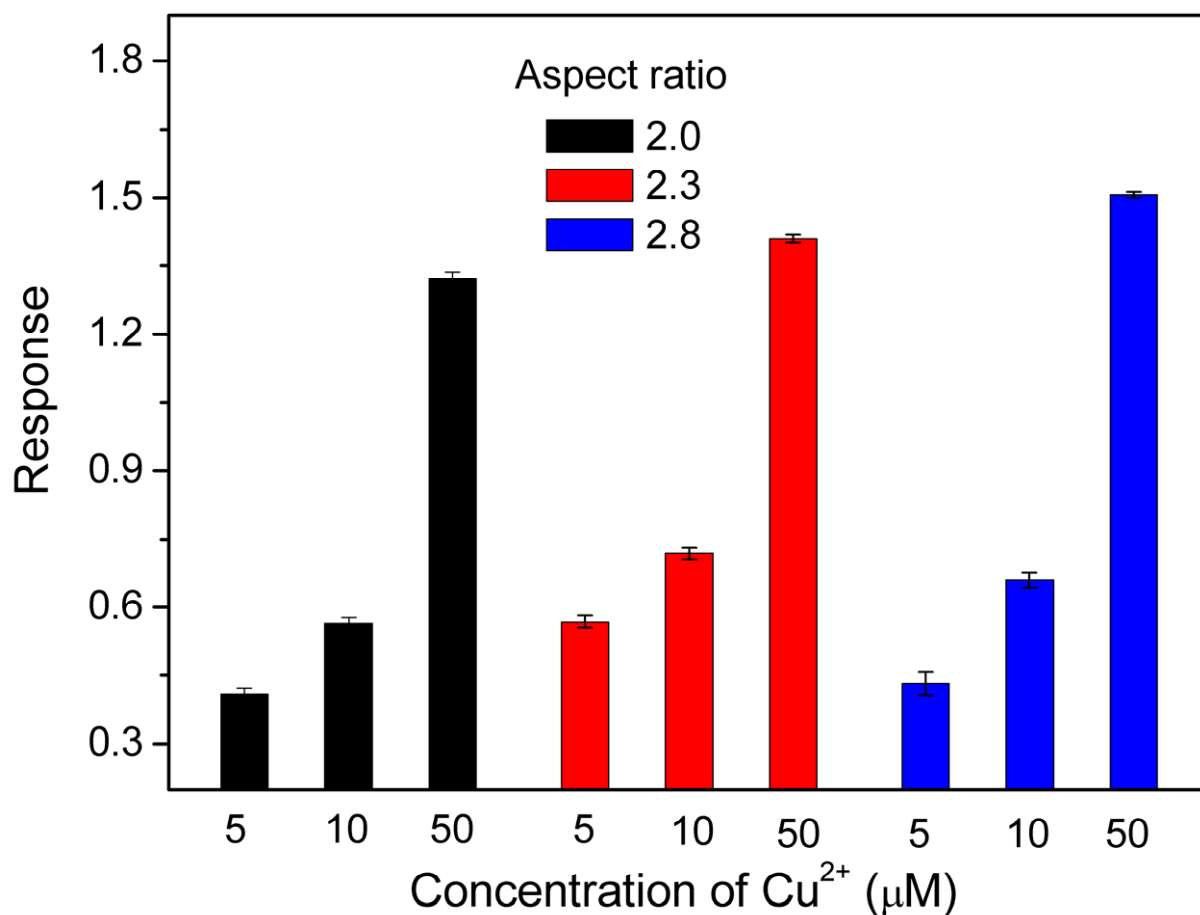


*Electronic Supplementary Information*

**A Gold Nanorod Based Colorimetric Probe for Rapid and  
Selective Detection of Cu<sup>2+</sup> Ions**

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