

# Supporting information

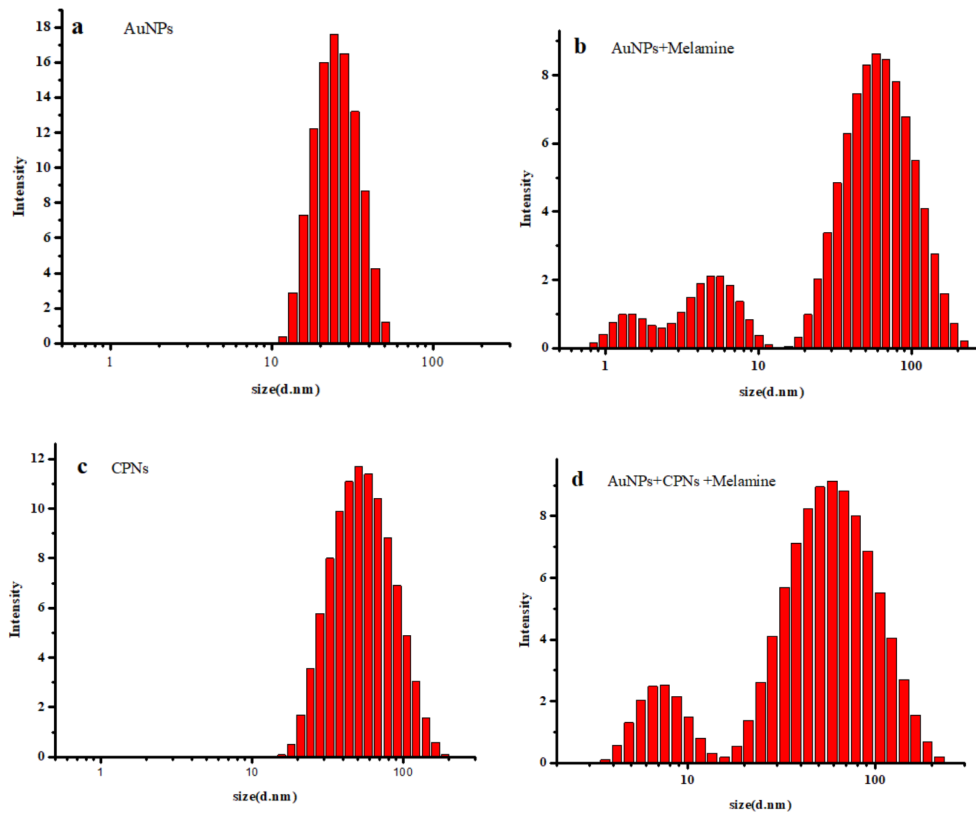
## Highly Sensitive Detection of melamine based on the fluorescence resonance energy transfer between conjugated polymer nanoparticles and gold nanoparticles

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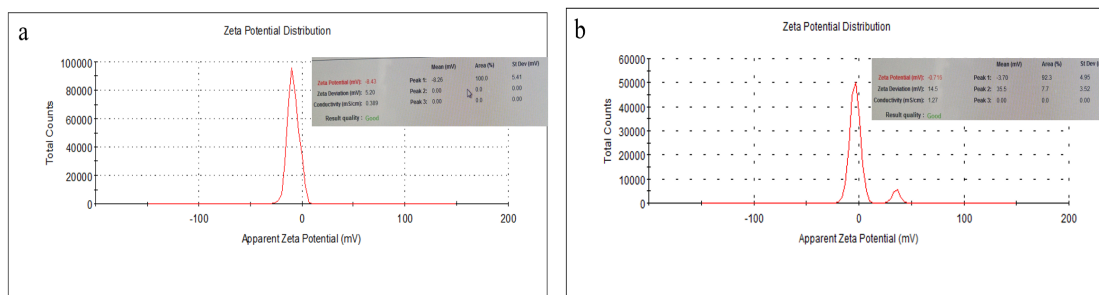
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**Fig. S1.** (a) Size distribution of AuNPs (average size = 24.4 nm); (b) size distribution of AuNPs with the addition of melamine (average size = 58.8 nm); (c) size distribution of CPNs (average size = 50.7 nm); (d)

size distribution of AuNPs and CPNs with the addition of melamine (average size = 58.8 nm). Concentration of AuNPs: 2.37 nM; concentration of melamine: 100 mol L<sup>-1</sup>; concentration of CPNs: 10 µg/mL.



**Fig. S2.** Zeta potential of AuNPs (a) and CNPs (b) at pH = 7.0, respectively.