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## **Supplementary Figures**

for

Understanding the Competitive Interactions in the Aptamer–Gold Nanoparticle

Based Colorimetric Assays using Surface Enhanced Raman Spectroscopy (SERS)

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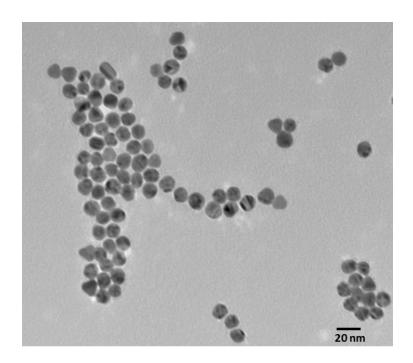
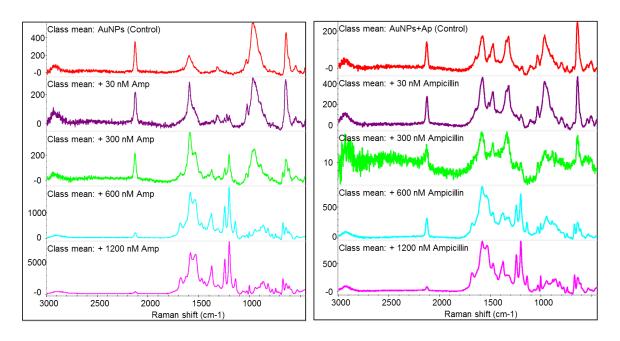
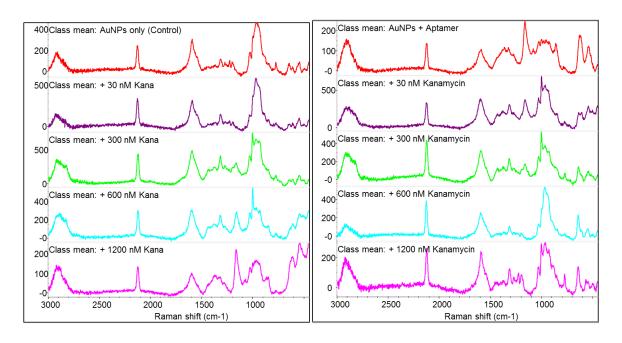


Fig. S1 TEM image of synthesized AuNPs with an average diameter of 13 nm.



**Fig. S2** Raw SERS spectra of ampicillin at different concentrations (0, 30, 300, 600, 1200 nM) mixed with AuNPs or Aptamer + AuNPs



**Fig. S3** Raw SERS spectra of kanamycin at different concentrations (0, 30, 300, 600, 1200 nM) mixed with AuNPs or Aptamer + AuNPs