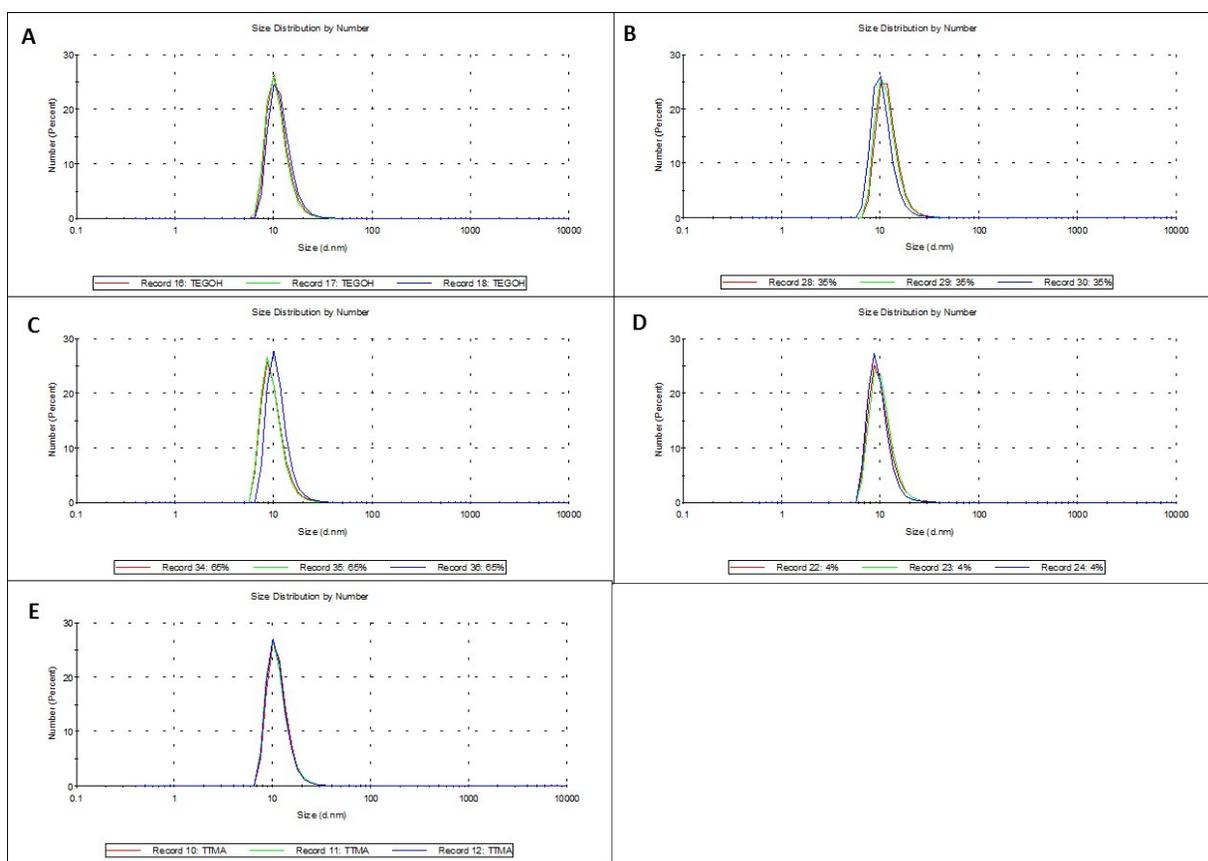
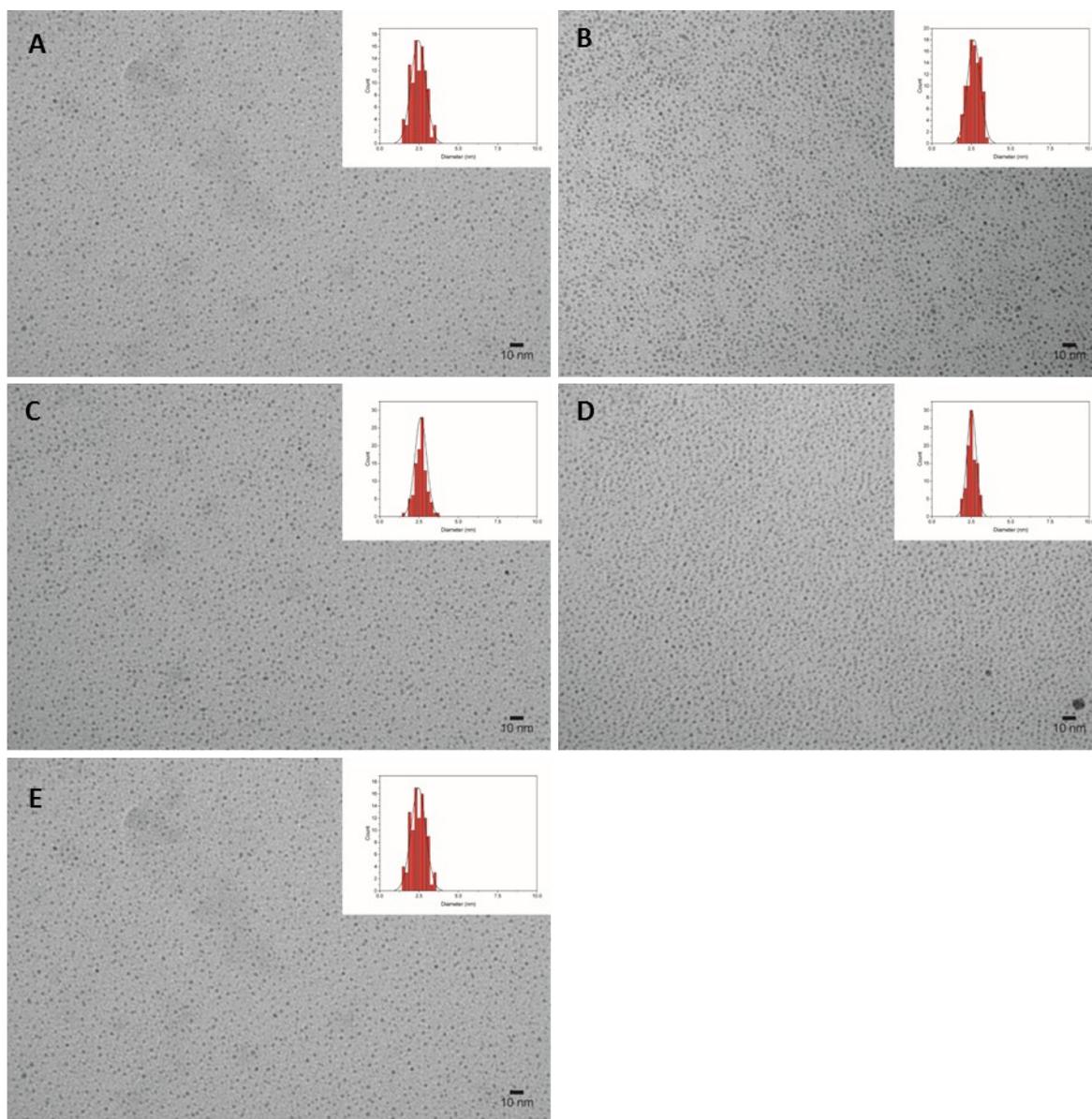


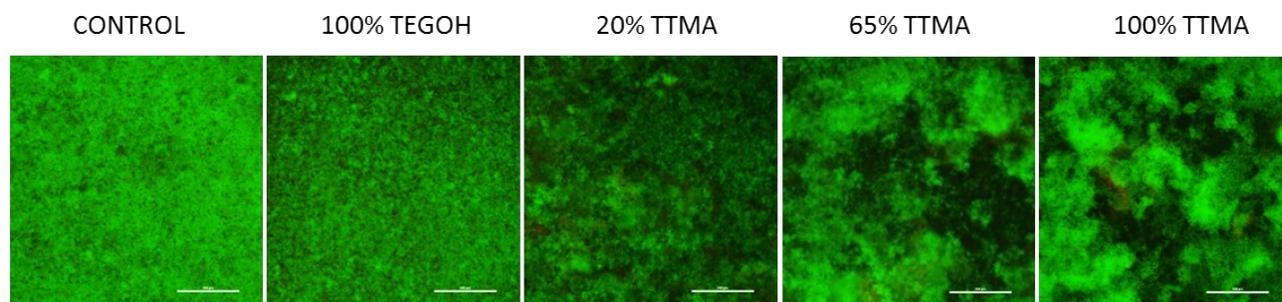
## SUPPLEMENTARY FIGURES



**Figure S1.** Measurement of AuNP size using Dynamic Light Scattering (DLS). A) 100% TEGOH B) 20% TTMA C) 65% TTMA D) 96% TTMA E) 100% TTMA. Graph shows size distributions of three measurements.



**Figure S2.** TEM image of AuNPs. A) 100% TEGOH B) 20% TTMA C) 65% TTMA D) 96% TTMA E) 100% TTMA. Samples were prepared on 300 square mesh nickel grids with Formvar film purchased from Electron Microscopy Sciences. Images were acquired on a JEOL 100CX operating at 100 keV. Inset shows a histogram of the measured nanoparticle diameters. Scale bar=10 nm.



**Figure S3.** AuNP treatment disrupts *S. aureus* biofilm. Representative images show biofilm after staining with SYTO9 (green channel) and PI (red channel, yellow arrows). Scale bar=20 $\mu$ m.

Nanoparticle	Diameter (nm)
100% TEGOH	2.5 $\pm$ 0.5 nm
20% TTMA	2.7 $\pm$ 0.4 nm
65% TTMA	2.6 $\pm$ 0.4 nm
96% TTMA	2.5 $\pm$ 0.3 nm
100% TTMA	2.4 $\pm$ 0.4 nm

**Table S1.** Average diameters of AuNP core derived from TEM image analysis.