

Supplementary information

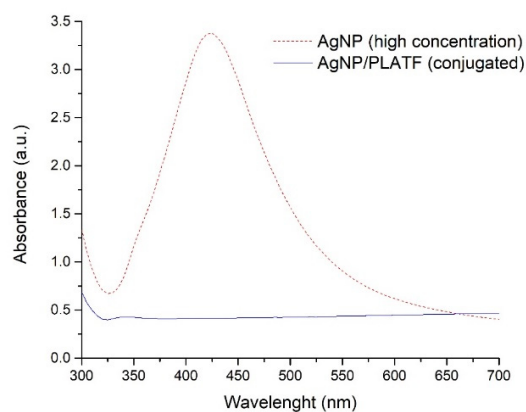


Figure S1. Comparison of AgNP (high concentration) resonance plasmon and the AgNP conjugated with the peptide platform in solution.

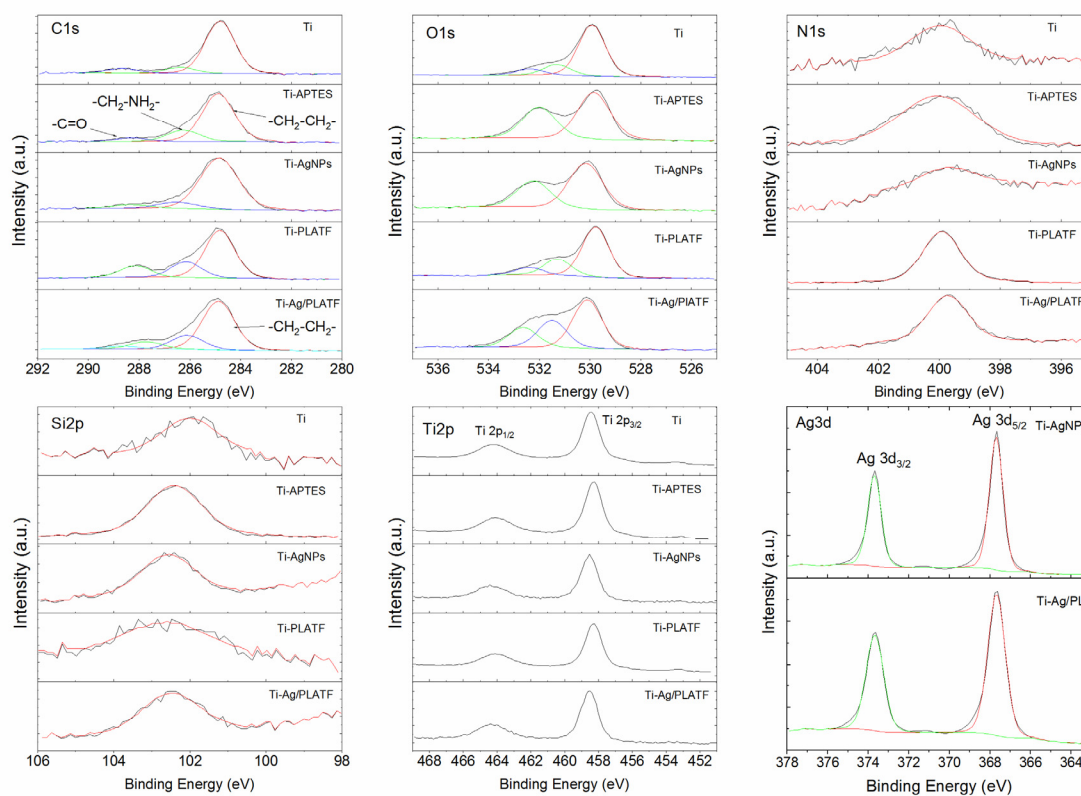


Figure S2. High resolution XPS spectra of the peaks C1s, O1s, N1s, Si2p, Ti2p and Ag3d.

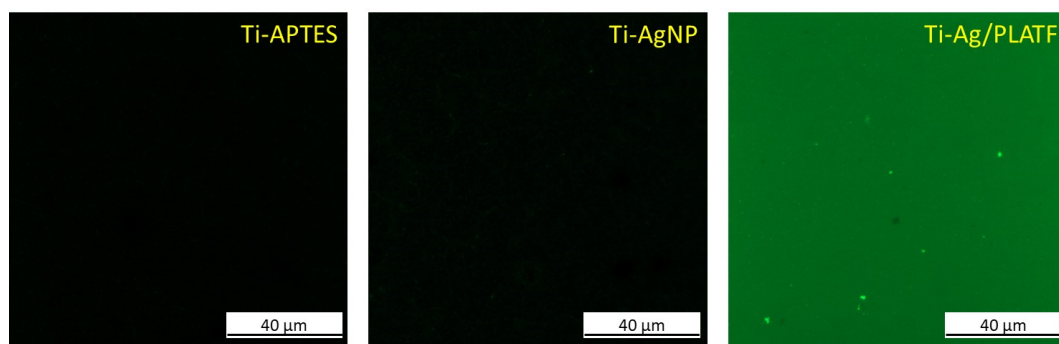


Figure S3. Fluorescence images of silanized surface (Ti-APTES), AgNP coated surface (Ti-AgNP) and the functionalized surface with AgNP and the peptide platform containing a carboxyfluorescein molecule.