



Supplementary Figure 6 | In-situ probing biology structures by SHINERS. **(a, b, c)** SHINERS spectra obtained from different locations on a sample consisting of yeast cells incubated with Au@SiO₂ NPs on a quartz slide. **(d)** The spectrum of Au@SiO₂ NPs, but without yeast cells, on a quartz slide. **(e)** An ordinary Raman spectrum of yeast cells on a quartz slide. The peaks marked with red asterisks are related to mannoproteins.