

Supplementary Information

Multi-layered stacks of fluorescent dye-doped silica nanoparticles decorated by gold nanoparticles for solid-phase optical biosensing

Seong Yoon Lim^a, Jae Hong Kim^a, Joon Seok Lee^a, Junhyoung Ahn^b, Min-Gon Kim^b,
and Chan Beum Park^{a,*}

^a Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology 335 Science Road, Daejeon 305-701, Republic of Korea

^b Advanced Photonics Research Institute and Graduate Program of Photonics and Applied Physics, Gwangju Institute of Science and Technology, Gwangju 500-712, Republic of Korea

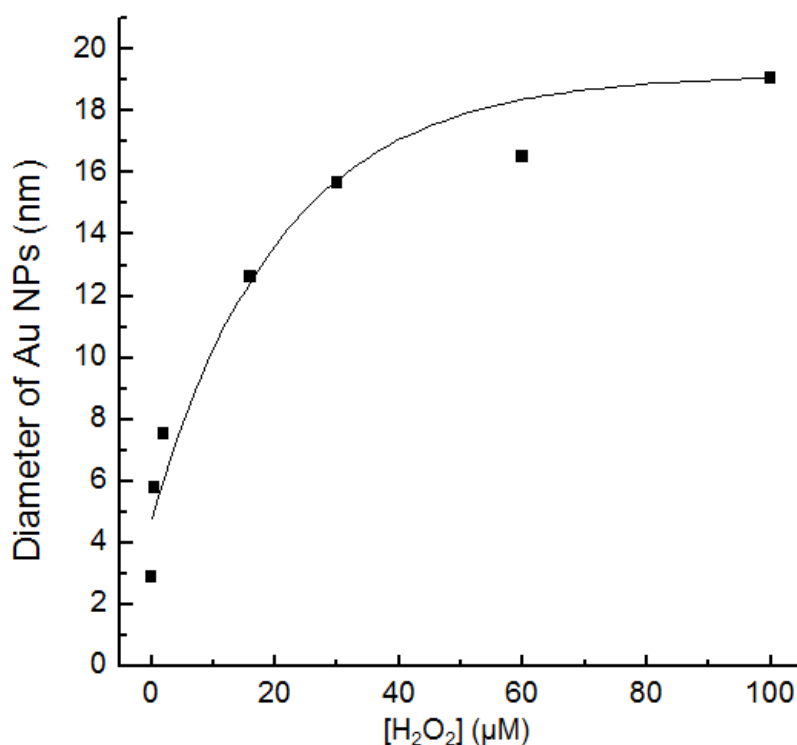


Fig. S1. The diameter of Au NPs on FSN-Au NP probes after the growth reaction with different H₂O₂ concentration. The diameter was determined by calculating the average diameter of 30 Au NPs grown on single FSN according to TEM images. For the Au NP growth reaction, FSN-Au NPs and HAuCl₄ (0.2 mM) in 10 mM phosphate buffer (pH 7.0) were reacted with H₂O₂ from 0 to 100 μM at 37 °C for 20 min.