

Supporting Information

Analysis of the Interaction Between DNA Aptamers and Cytochrome C on the Surface of Lipid Films and on the MUA Monolayer: A QCM-D Study [†]

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S1. Electron microscopy image of AuNWs

Gold nanowires (AuNWs) were observed with standard Secondary Electron detector and in transmission mode with a STEM detector using Electron microscope EVO LS15 (Zeiss, Oberkochen, Germany) with following parameters: accelerating voltage 30 kV, Iprobe 100 pA. Length size of AuNWs was evaluated as $3.22 \pm 0.38 \mu\text{m}$ using ImageJ software.

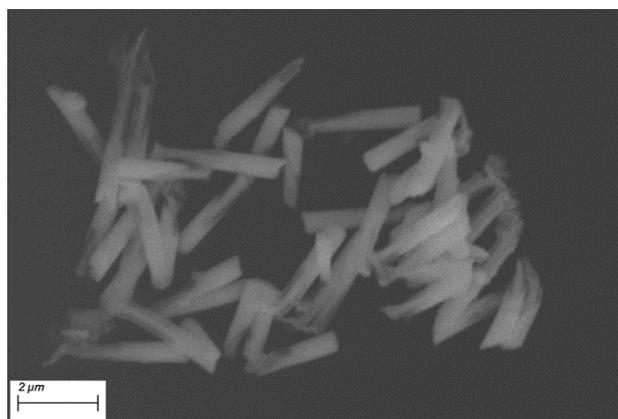


Figure S1. Electron microscope image observed with standard Secondary Electron detector of synthesized AuNWs.

S2. Interaction of the gold nanowires with cyt c covalently immobilized at the surface of MUA chemisorbed at gold layer of the quartz crystal

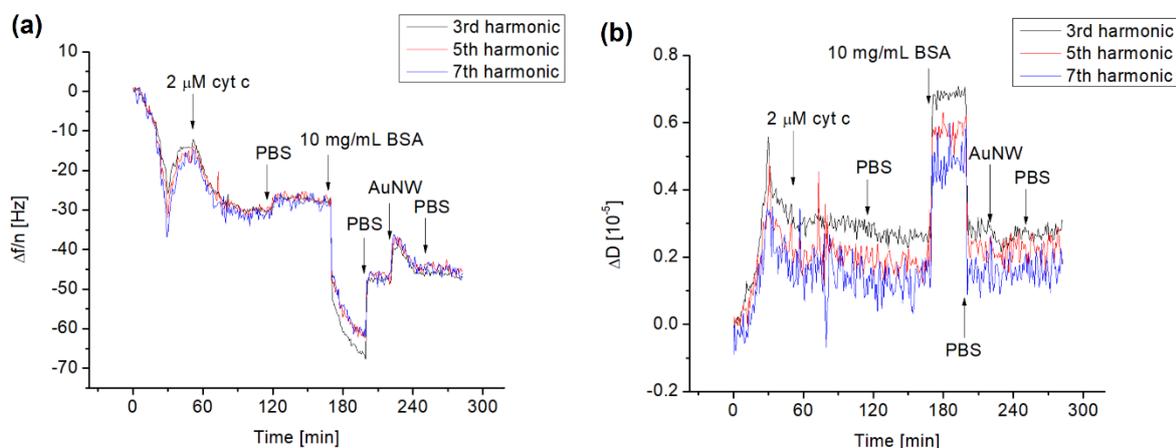


Figure S2. The kinetics of the changes of normalized resonant frequency (a) and dissipation (b) for 3rd, 5th and 7th harmonic frequencies vs. time following addition to the MUA surface of 2 μM cyt c, 10 mg/mL BSA and unmodified gold nanowires (AuNW). The moments of addition of cyt c, BSA, AuNW and PBS wash are shown by arrows.

S3. Interaction of the DNA aptamers with cyt c covalently immobilized at the surface of MUA chemisorbed at gold layer of the quartz crystal

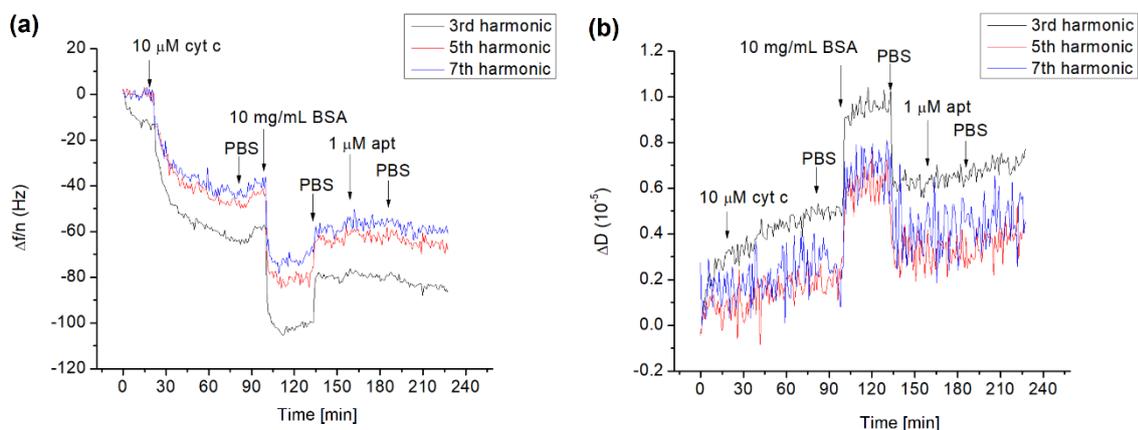


Figure S3. The kinetics of the changes of normalized resonant frequency (a) and dissipation (b) for 3rd, 5th and 7th harmonic frequencies vs. time following addition to the MUA surface of 2 μM cyt c, 10 mg/mL BSA and DNA aptamers specific to cyt c (apt). The moments of addition of cyt c, BSA, aptamer and PBS wash are shown by arrows.