

Investigation of the interactions between silver nanoparticles and Hela cells by scanning electrochemical microscopy[†]

Zhong Chen,^a Shubao Xie,^a Li Shen,^a Yu Du,^a Shali He,^a Qing Li,^a Zhongwei Liang,^a Xin Meng,^a Bo Li,^a Xiaodong Xu,^a Hongwei Ma,^b Yanyi Huang^b and Yuanhua Shao*^a

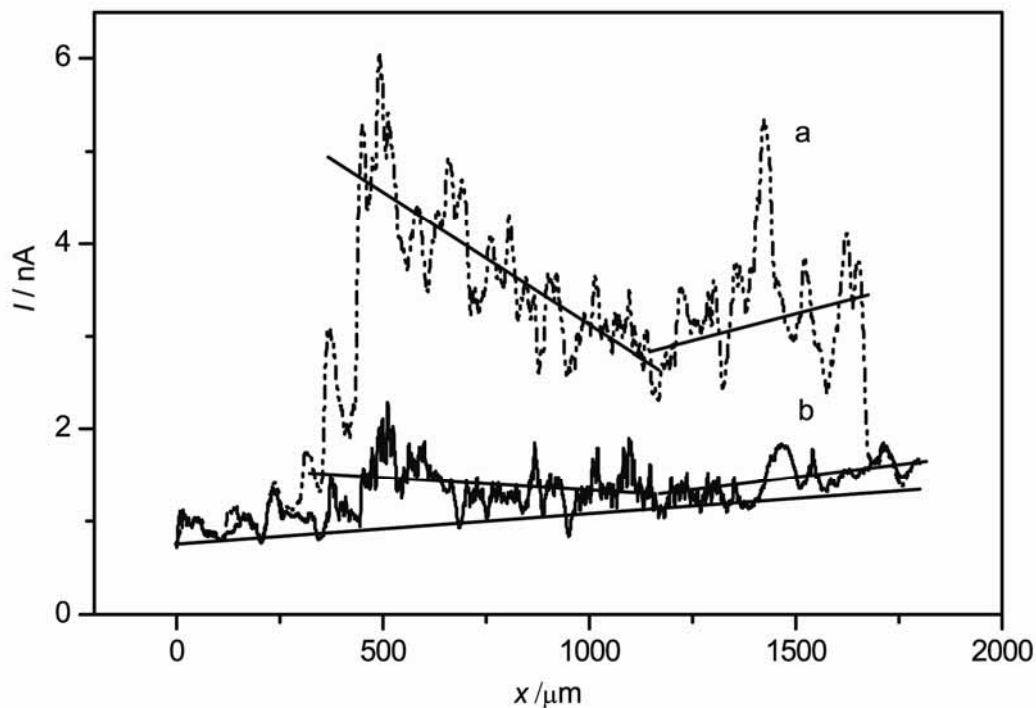


Figure S1

Figure S1. The signals of lateral probe scanning over the silver nanoparticles spots. The mediator is K_3IrCl_6 (a) or $\text{K}_3\text{Fe}(\text{CN})_6$ (b) and the diameter of the cluster is about 1.2 μm . The straight lines stand for the average of the signals and the baseline, respectively. The scan rate is 30 $\mu\text{m}/\text{s}$.

Figure S1 shows the differences between the two mediators when the probe scanning laterally over the same silver clusters (the diameter of the spot is about 1.2 μm) deposited on the PVDF membrane by SECM. The signals based on K_3IrCl_6 are about 5 times larger than those based on $\text{K}_3\text{Fe}(\text{CN})_6$.