

Electronic Supplementary Information

A novel aptamer-based competition strategy for ultrasensitive electrochemical detection of leukemia cells

Kui Zhang^{‡ a,b}, Tingting Tan^{‡a,b}, Jia-Ju Fu^b, Tingting Zheng^b, and Jun-Jie Zhu^{b*}

Optimization of the detection conditions

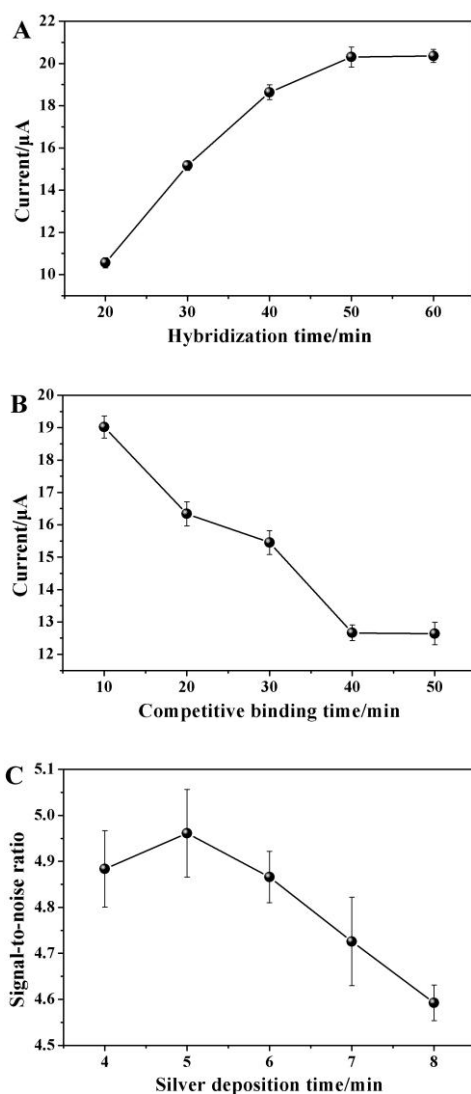


Fig. S1. (A) Effect of incubation time on hybridization between Fe_3O_4 MNP-bound aptamers and AuNP-conjugated cDNA. (B) Effect of incubation time on CCRF-CEM cells ($1.0 \times 10^4 \text{ mL}^{-1}$) competing with AuNP-conjugated cDNA to bind preferentially to Fe_3O_4 MNP-bound aptamers. (C) Signal-to-noise ratio of different silver deposition times. The error bars represent RSD from three independent experiments.