## Nafion Coated Nanopore Electrode for Improving Electrochemical Aptamer-Based Biosensing

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## Supporting Information



**Figure S1.** Effect of SWV frequency on the current levels and signal changes of n-npAu upon the addition of 100  $\mu$ M DOX (n=3).



**Figure S2.** The Nafion thickness measurement of the membrane prepared by spin coating at various speeds from 1000 rpm to 8000 rpm (n=3).



Figure S3. SEM images of npAu (r.t.), npAu (300 °C), npAu (400 °C) from left to right,

respectively. (D), (E), (F) are enlarged view of (A), (B), (C).



Figure S4. Cross-sectional view of SEM image for n-npAu (dip coating).



**Figure S5.** The current levels on the left y-axis and the signal changes on the right y-axis of n-npAu (no waiting), n-npAu (10 minutes waiting) upon the addition of 100  $\mu$ M DOX, respectively (n=3).