Supplementary information

Co-Detection of Dopamine and Glucose with High Temporal Resolution

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Figure S.1 Cyclic voltammetry of a CFME-AuNP in PBS buffer (black) 5 mM H₂O₂ (red) and 10 mM H₂O₂ . The voltammogram shows that H₂O₂ is reduced at potentials below -0.25 V and that no oxidation reaction occurs involving H₂O₂ when potential +0.5 V is applied.
Figure S.2 The AuNP-CFME response to H$_2$O$_2$ shows linearity over a large concentration range (10 µM – 10 mM) and display a sensitivity of 8.4 ± 0.5 pA mM$^{-1}$µm. (R-square 0.996).

Figure S.3 The GOx-AuNP-CFME response to glucose for the whole concentration range tested (10 µM – 10 mM).