Dansyl-antipyrine dyad as fluorescent sensor for Cu$^{2+}$ and F$^{-}$: Sequential XNOR logic operation

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Figure S1: $^1$H NMR of probe 1
Figure S2: $^{13}$C NMR of probe 1
Figure S3: Mass spectrum of dyad 1

Figure S4: Effect of various metal ions on absorption spectra of dyad 1 (20 µM, CH₃CN).
Figure S5: Effect of various metal ions on emission spectra of dyad 1 (2 µM, CH$_3$CN).

Figure S6: Plot of [Cu$^{2+}$] vs emission intensity

Figure S7: Effect of various anions on emission spectra of dyad 1 (5 µM, CH$_3$CN).
Figure S8: Fluorescence spectra of probe 1 (5 µM) CH$_3$CN upon complexation with increasing concentration of CN$^-$ ions.