Supporting information

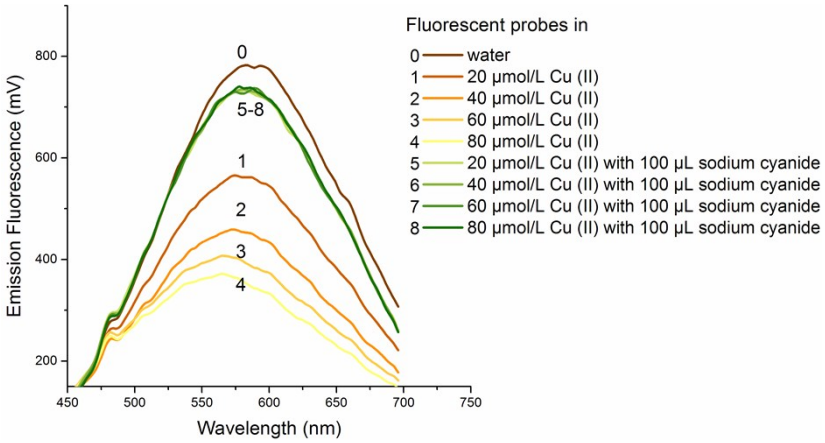

Figure. SI 1 Fluorescence quenching of yeast probes by Cu^{2+} and the following fluorescence recovery of copper treated yeast probes by CN^-.

A, Control, (0) fluorescent yeast probes in water.

B, Fluorescent yeast probes in (1) 20 μmol/L Cu^{2+}, (2) 40 μmol/L Cu^{2+}, (3) 60 μmol/L Cu^{2+} and (4) 80 μmol/L Cu^{2+}, respectively.

C, Yeast probes treated with different concentrations of copper, (5) 20μmol/L, (6) 40 μmol/L, (7) 60 μmol/L and (8) 80 μmol/L, followed by supplementing with 100 μL sodium cyanide (1 mmol/L), respectively.

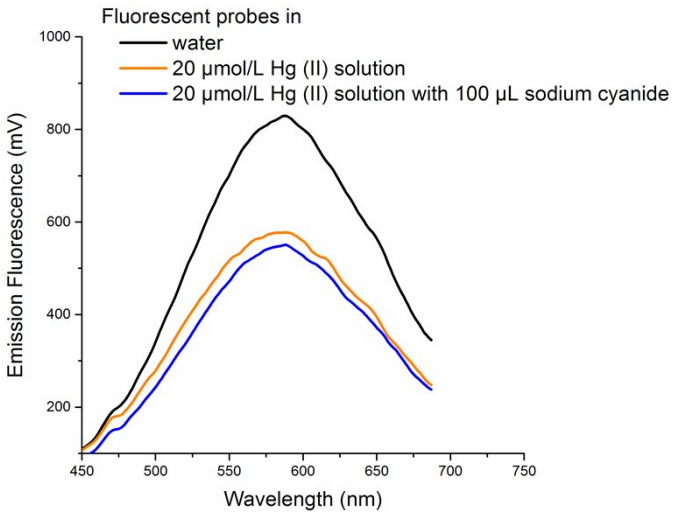

Figure. SI 2 Fluorescence quenching of yeast probes by Hg^{2+} and the effect of CN^- supplementation. (1) fluorescent yeast probes in water (control), (2) fluorescent yeast probes in 20 μmol/L Hg^{2+}, (3) mercury (20 μmol/L) pre-treated yeast probes

supplemented with 100 μL sodium cyanide (1 mmol/L)