Supporting Information

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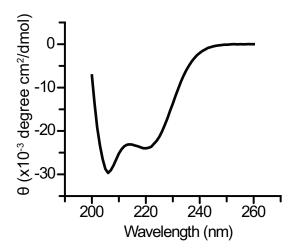


Fig. S1. Circular dichroism spectrum of C2H6H10 peptide. Spectra were acquired by using an Aviv model 62A DS spectrometer (Aviv Biomedical) with a 1-mm path-length quartz cuvette. Peptides were dissolved to a final concentration of \approx 500 μ M in buffer containing 65 mM Na₂SO₄, 1.5 mM KH₂PO₄, and 1.5 mM K₂HPO₄, pH 7.2, in 50% 2,2,2-trifluoroethanol.

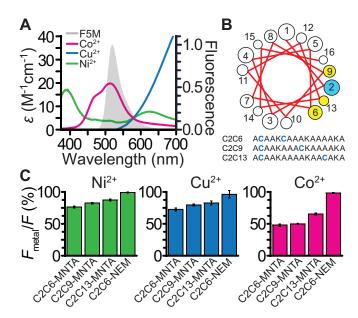


Fig. S2. Measuring distances between transition metal ions bound to MNTA and F5M in helical peptides. (A) Spectral overlap between the emission of F5M and the absorbance of Co^{2+} , Cu^{2+} , and Ni^{2+} bound to NTA. (B) Sequences of model peptides. Helical wheel model highlighting the positions of cysteine residues in the model peptides. (C) Average quenching by 100 μ M Ni^{2+} , 10 μ M Cu^{2+} , and 100 μ M Co^{2+} in model peptides. Each peptide was reacted with one molecule of F5M and one molecule of either MNTA or NEM as indicated.