

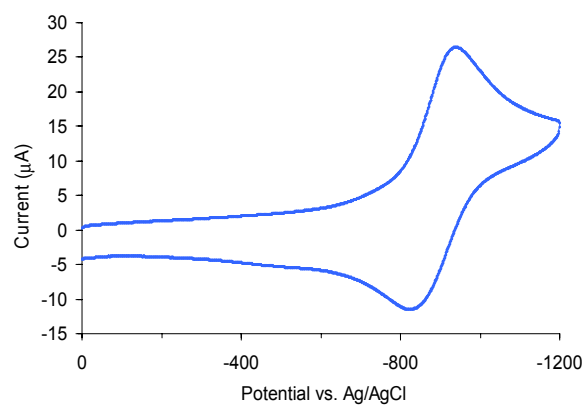


Figure S1: Cyclic voltammogram for [Fe(c343haH)(salen)] showing quasi-reversibility of reduction.

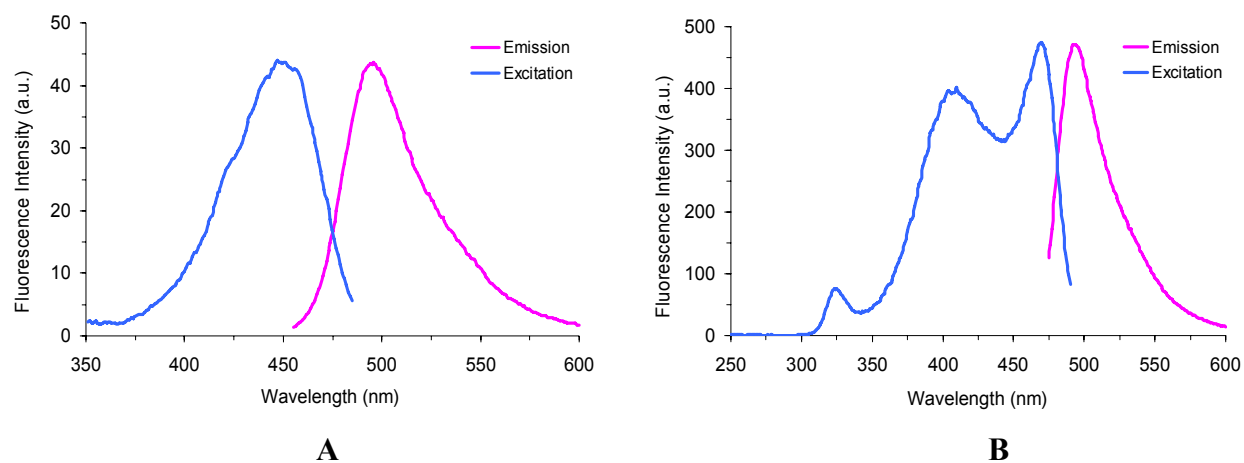
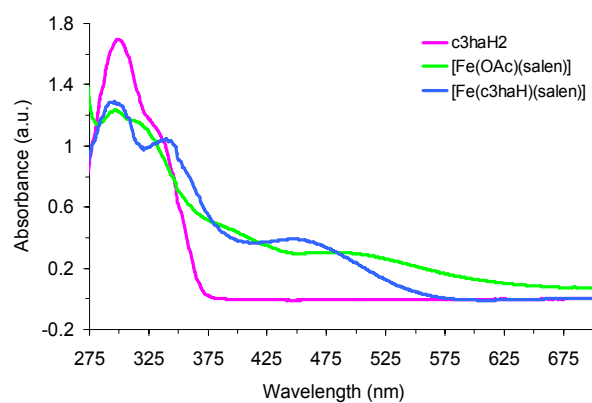
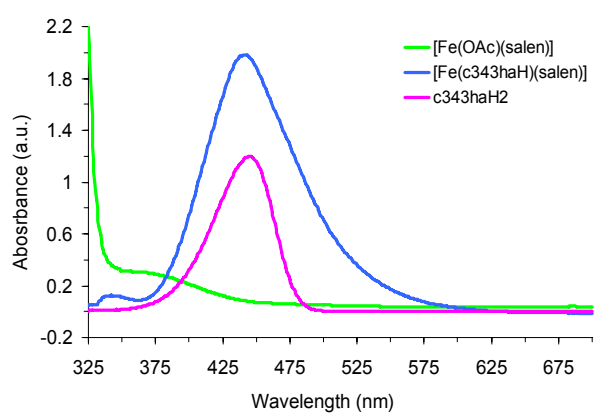


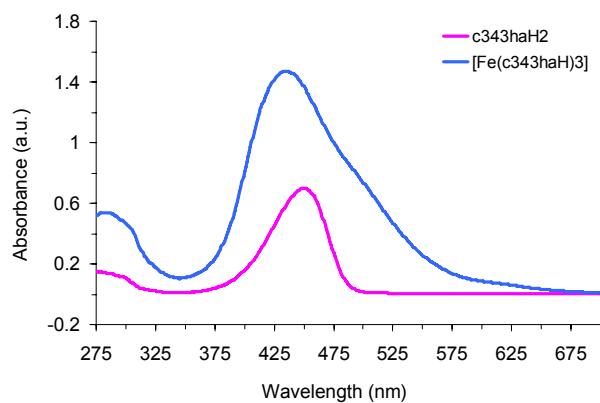
Figure S2: Excitation and emission spectra of A: c3haH₂ and B: c343haH₂.



A



B



C

Figure S3: UV-Vis Absorption spectra of A: [Fe(c3haH)(salen)], B: [Fe(C343haH)(salen)] and C: [Fe(c343haH)₃], compared to their respective free ligands, and for A and B, the iron-salen precursor, [Fe(OAc)(salen)].

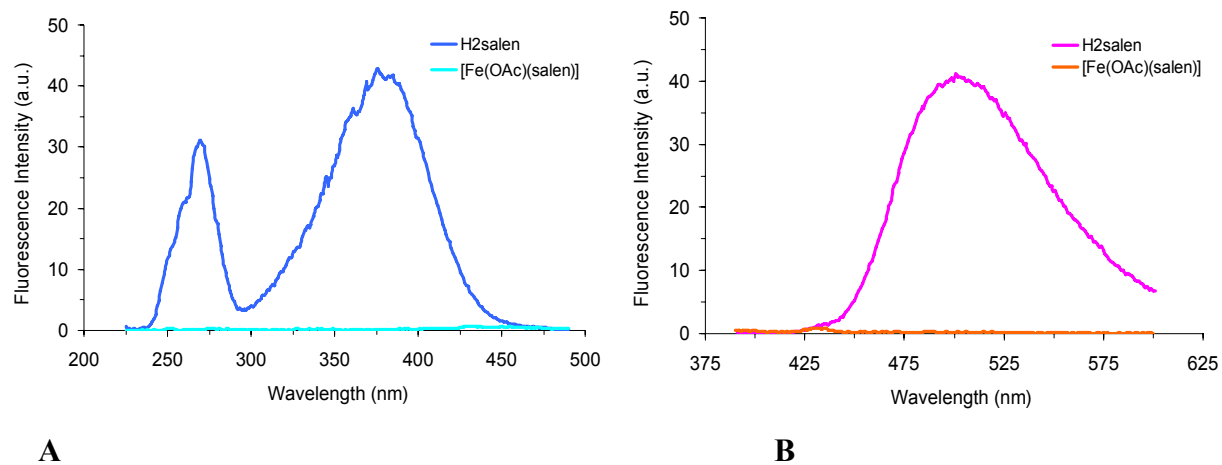
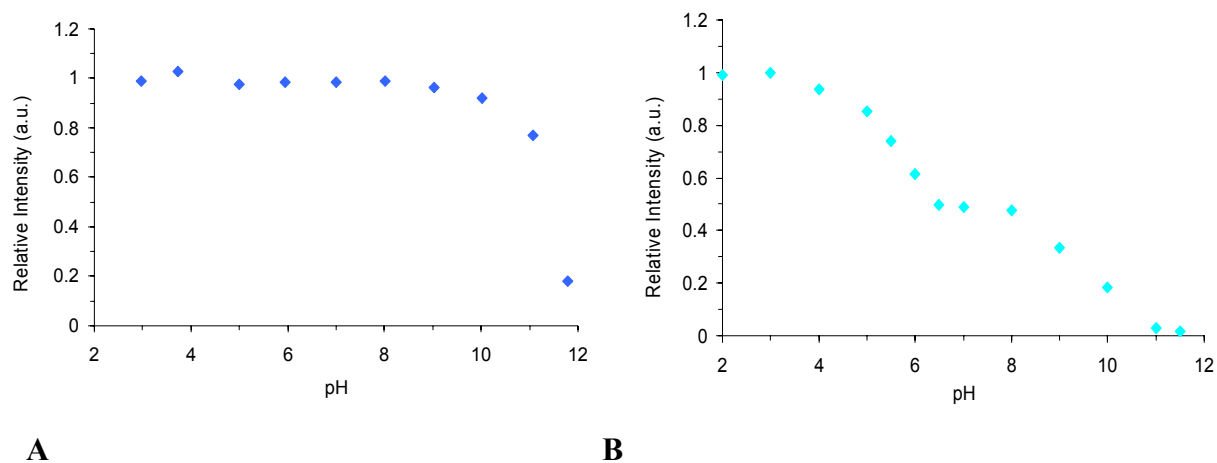


Figure S4: **A:** Excitation and **B:** emission spectra of [Fe(OAc)(salen)] and H₂salen in DMF/water.



A **B**
Figure S5: pH dependence of **A**: c343haH₂, obtained by Yamamoto,¹⁴¹ and **B**:
[Fe(c343haH)(salen)] in acetone/water.

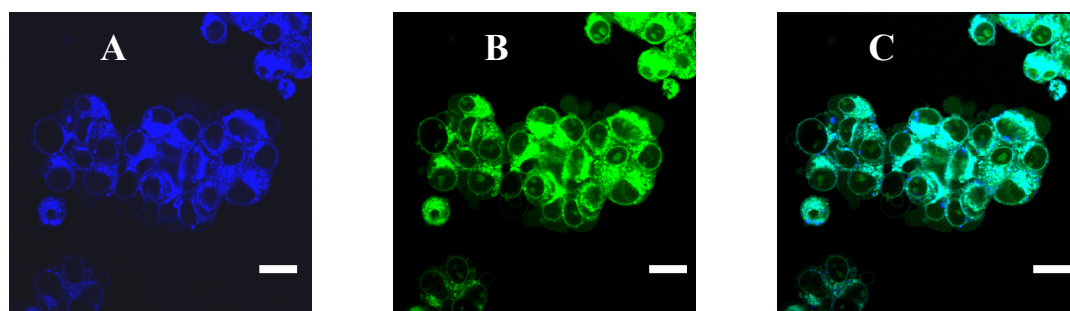


Figure S6: Fluorescence of c343haH₂ after 4 hour incubation collected in **A:** blue region, 410 to 450 nm, **B:** green region, 500 to 600 nm. **C:** overlay of the two emission patterns.