*Supplementary Materials*

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# Dinuclear heme and non-heme metal complexes as bioinspired catalysts for oxidation reactions

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## Low temperature experiments

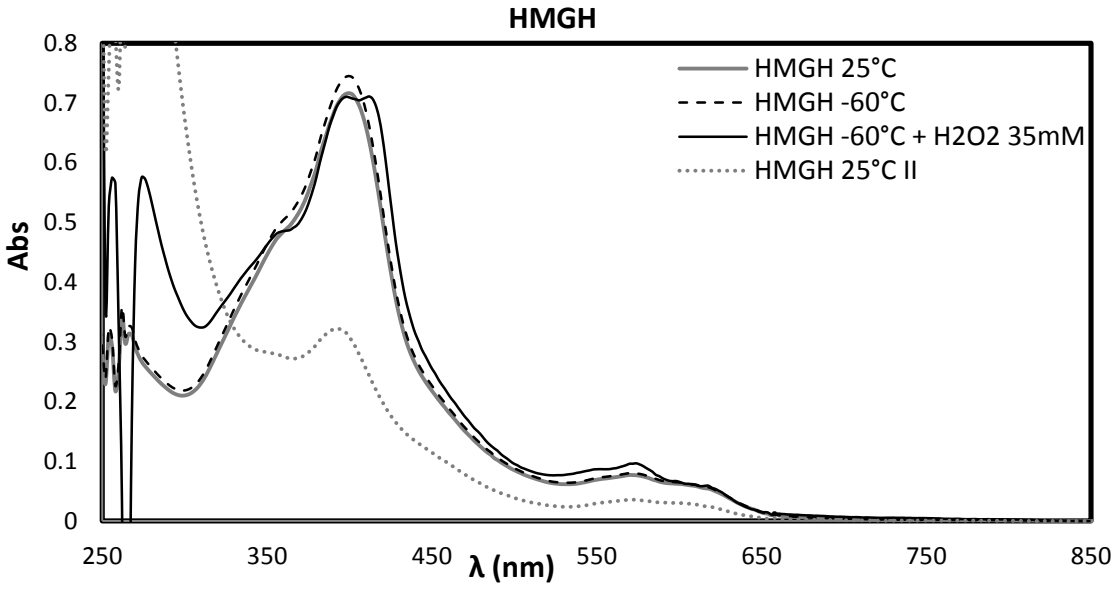


Figure S1 - Uv-Vis spectra of HMGH ($5\times10^{-6}$ M) at 25 °C (grey continuous line), HMGH at -60 °C (black dashed line), HMGH at -60 °C after the addition of 35 mM $H_2O_2$ (black continuous line), and after warming at 25 °C (grey dashed line).

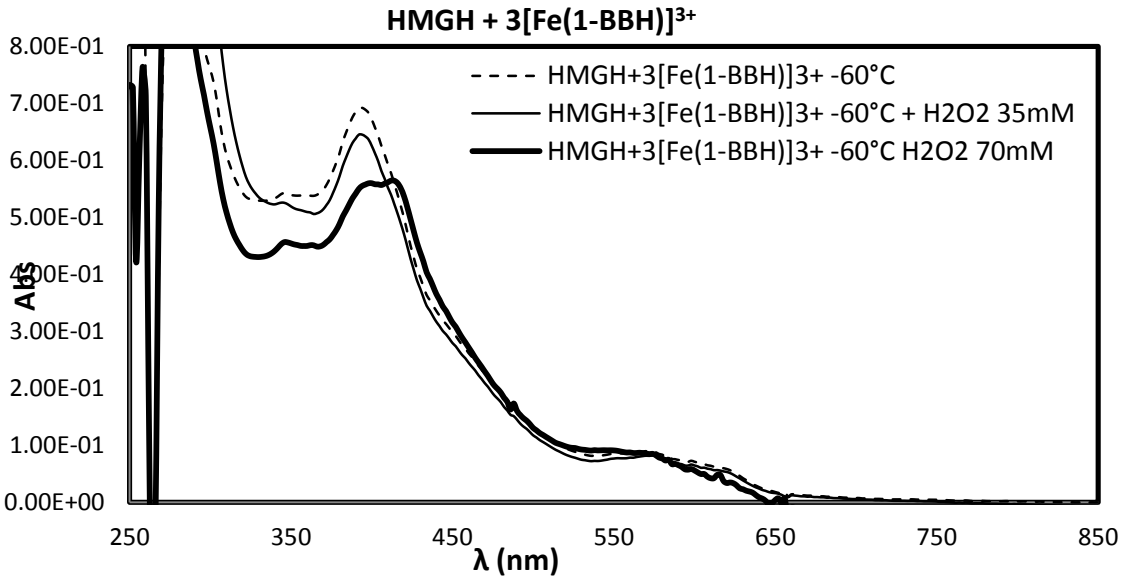


Figure S2 - Uv-Vis spectra of HMGH ($5\times10^{-6}$ M) in the presence of 3 equivalents of $[Fe(BBH)]^{3+}$ at -60 °C (black dashed line), after addition of 35 mM $H_2O_2$ (black continuous line), and after addition of 70 mM $H_2O_2$ (black bold line).

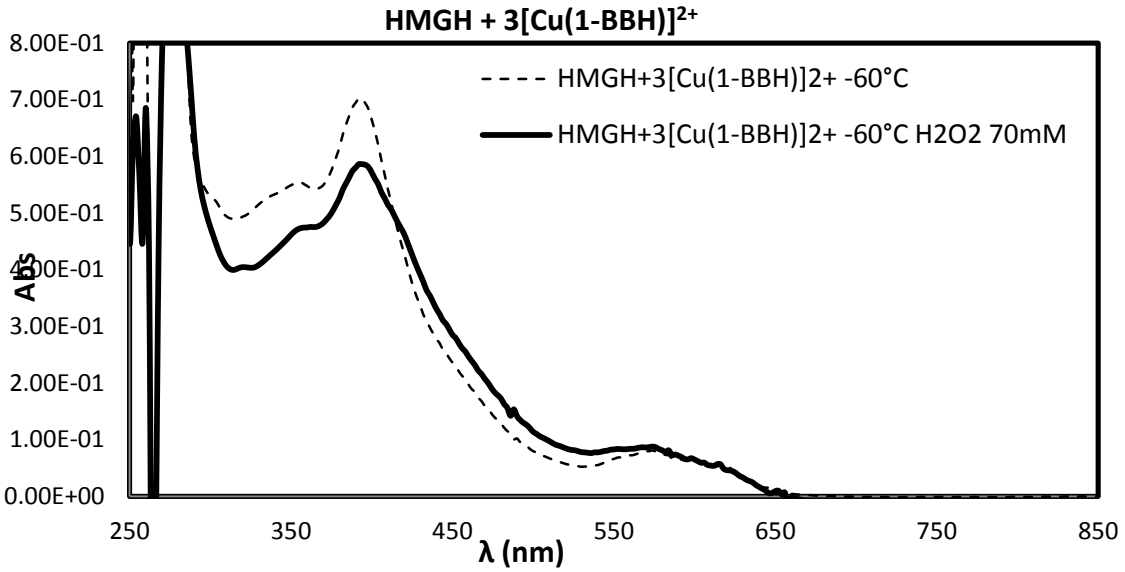


Figure S3 - Uv-Vis spectra of HMGH ($5\times10^{-6}$ M) in the presence of 3 equivalents of $[Cu(BBH)]^{2+}$ at -60 °C (black dashed line) and after addition of 70 mM $H_2O_2$ (black bold line).