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Supporting Information

Cyclodextrin Polymers Functionalized with Histidine and Carcinine as Chelating Therapeutics for Copper Dyshomeostasis

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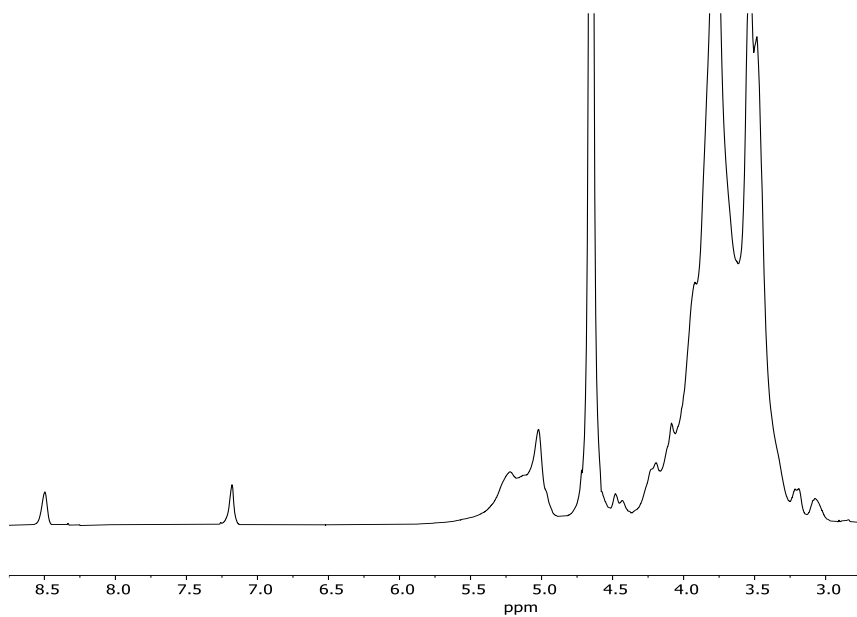


Figure 1S. ^1H NMR spectrum (D_2O , 500MHz) of $p\gamma\text{CyDHis}$

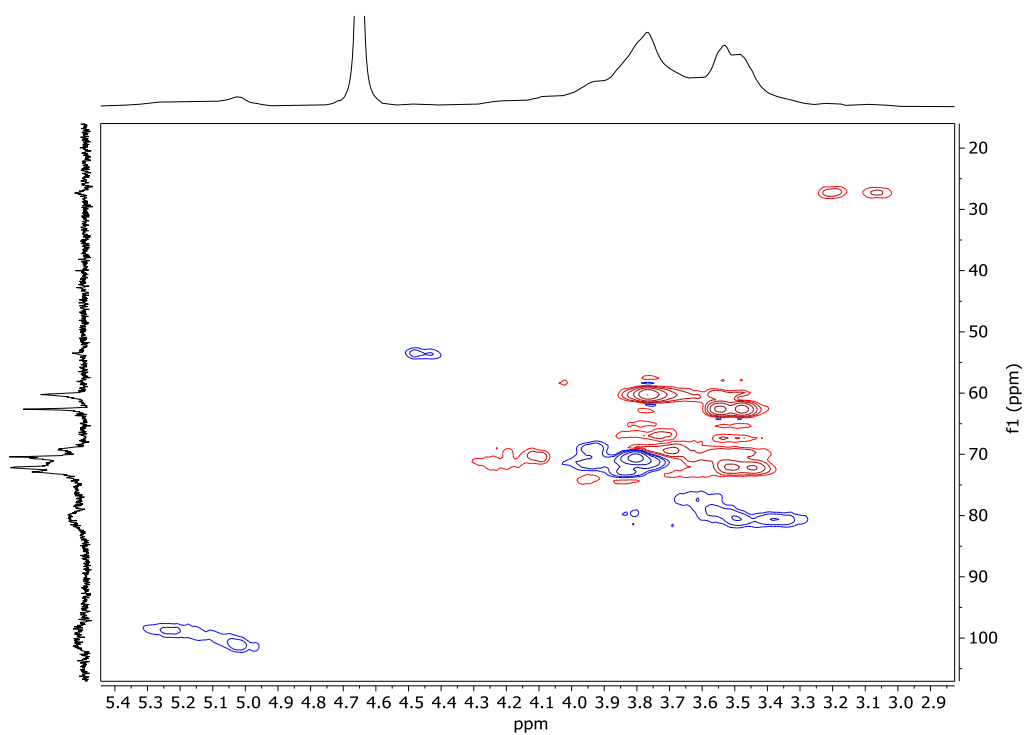


Figure 2S. HSQC spectrum (D_2O , 500MHz) of $p\gamma\text{CyDHis}$

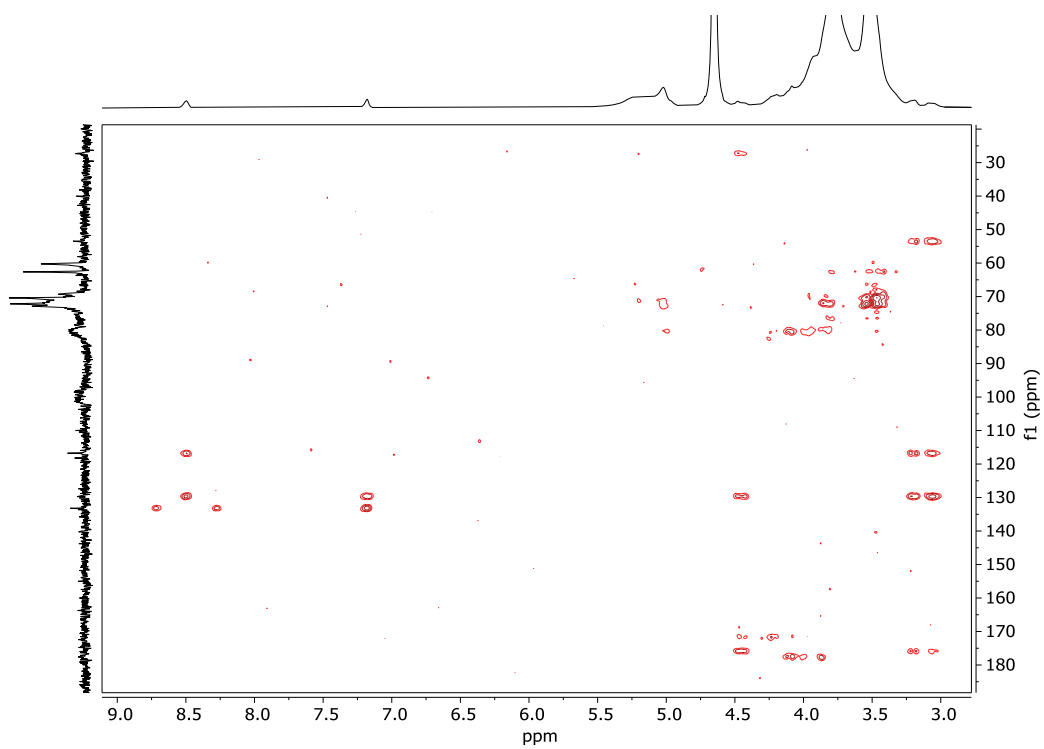


Figure 3S. HMBC spectrum (D₂O, 500MHz) of pγCyDHis

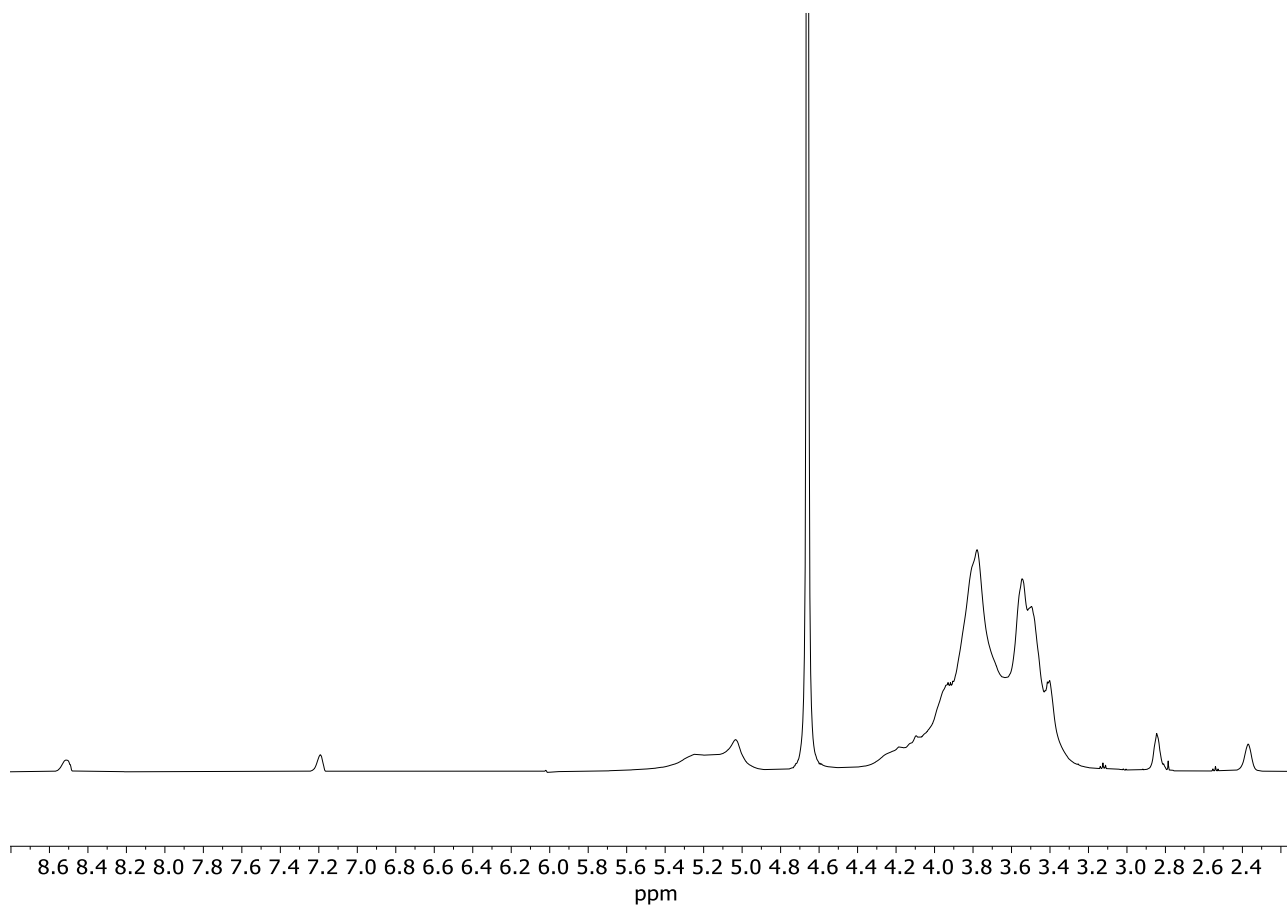


Figure 4S. ¹H NMR spectrum (D₂O, 500MHz) of pγCyDCarc60

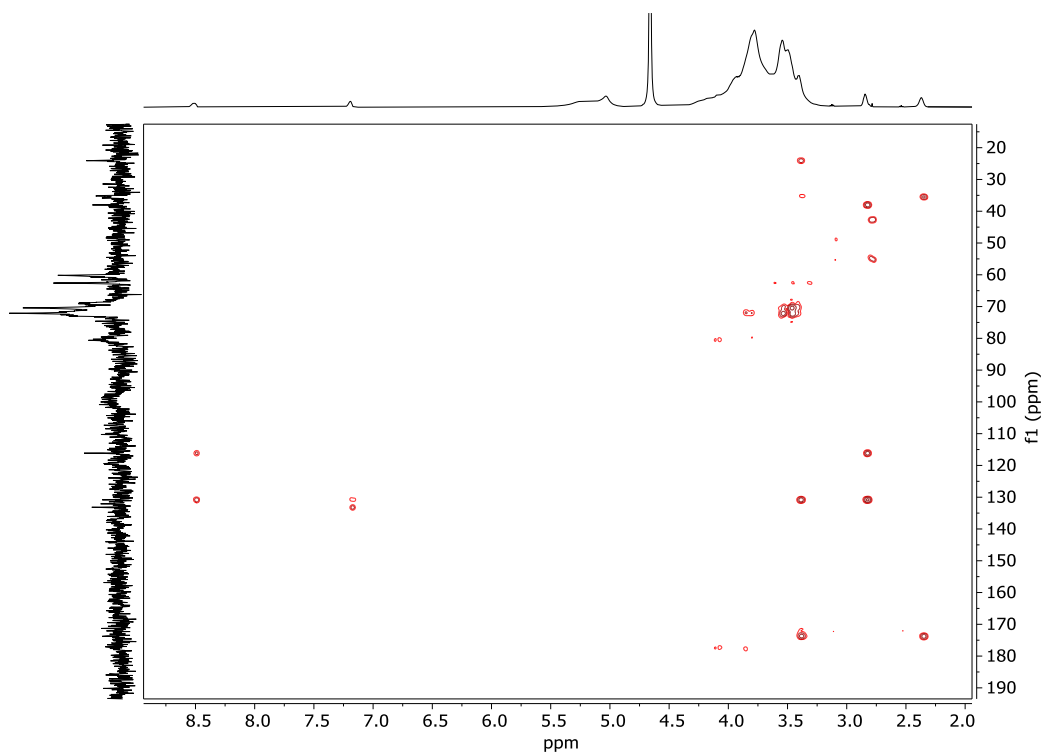


Figure 5S. HMBC spectrum (D₂O, 500MHz) of pyCyDCar60

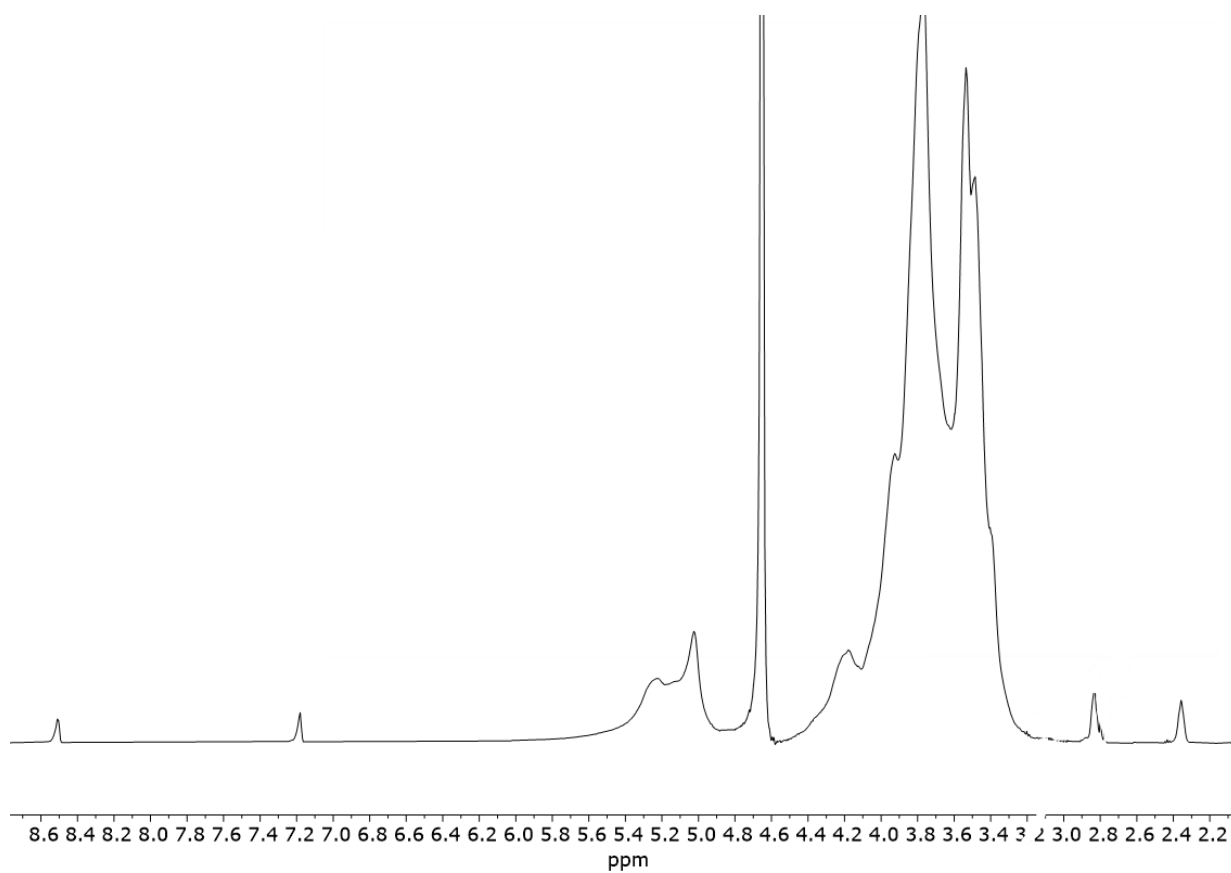


Figure 6S. ¹H NMR spectrum (D₂O, 500MHz) of pyCyDCarc30

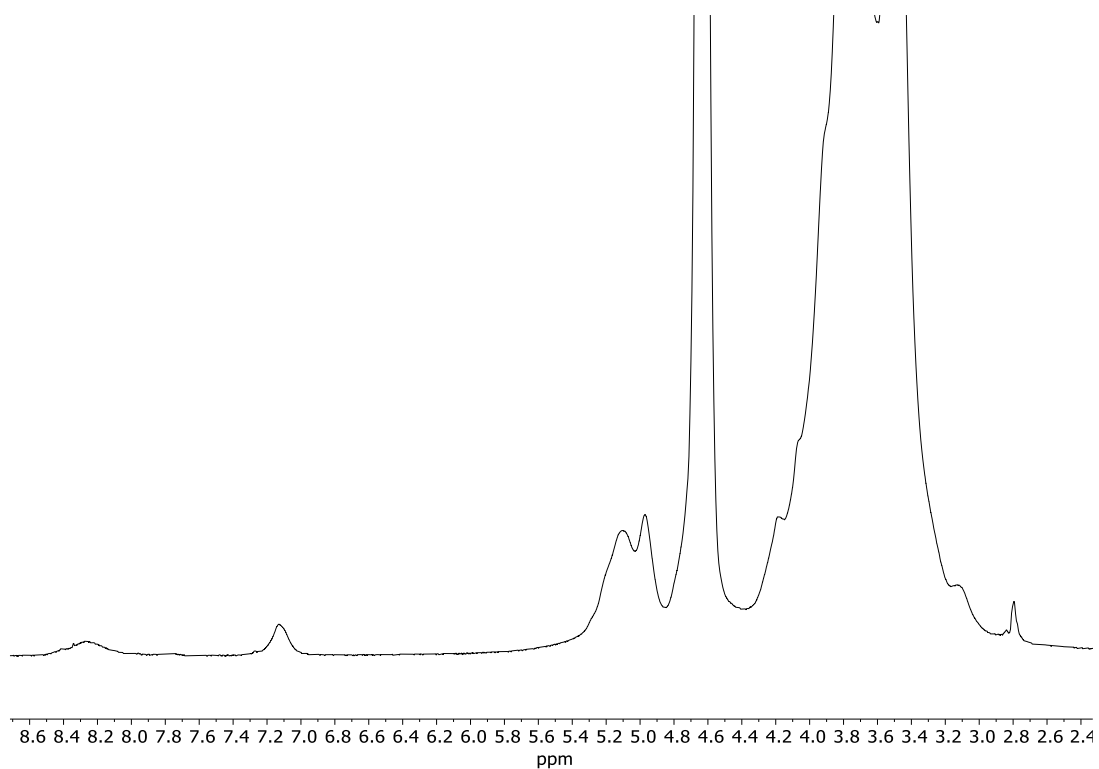


Figure 7S. ^1H NMR spectrum (D_2O , 500MHz) of p β CyDHis

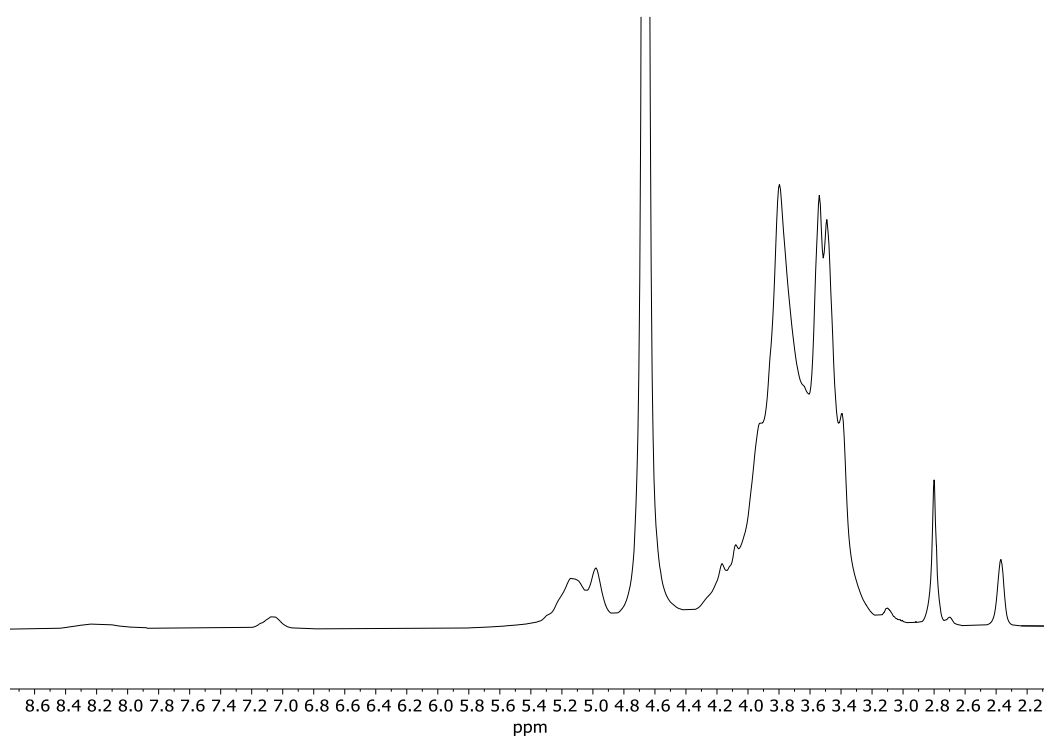


Figure 8S. ^1H NMR spectrum (D_2O , 500MHz) of p β CyDCarc60

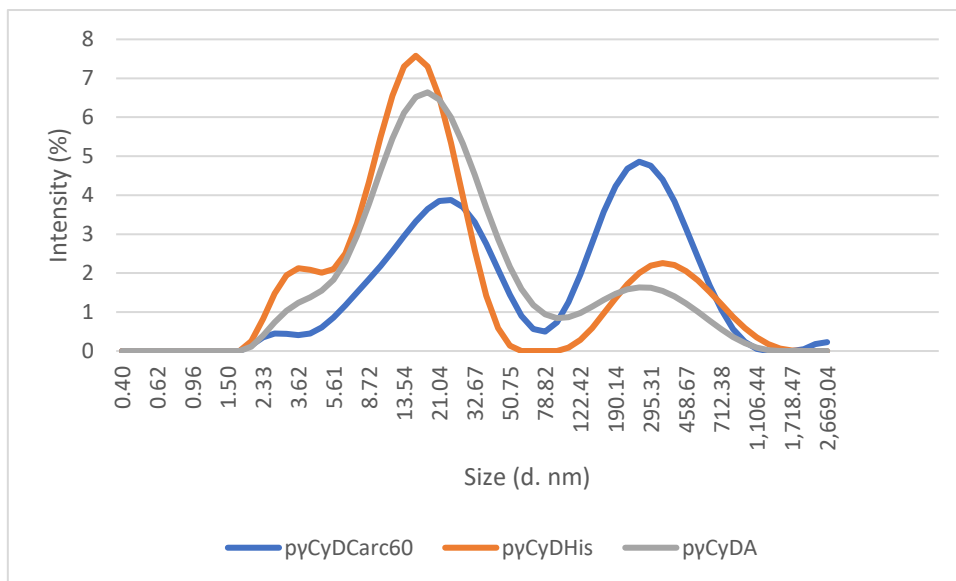


Figure 9S. DLS spectra of pyCyD polymers (HEPES buffer, pH 7.4)

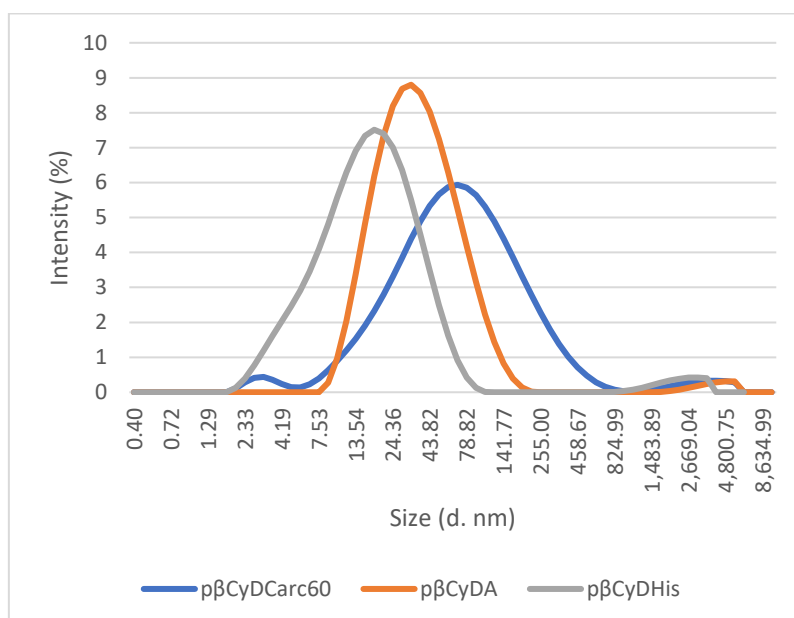


Figure 10S. DLS spectra of pβCyD polymers (HEPES buffer, pH 7.4)

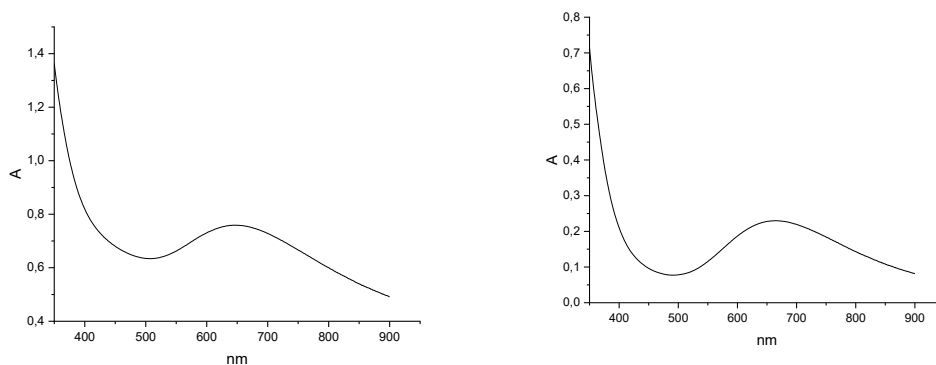


Figure 11S. UV-Vis spectrum of Cu²⁺-pβCyDCarc60-(left) and Cu²⁺-pβCyDHis (right) (M/L 2:1, L is His or Carc moiety, M 5mM) at pH=7.4 HEPES

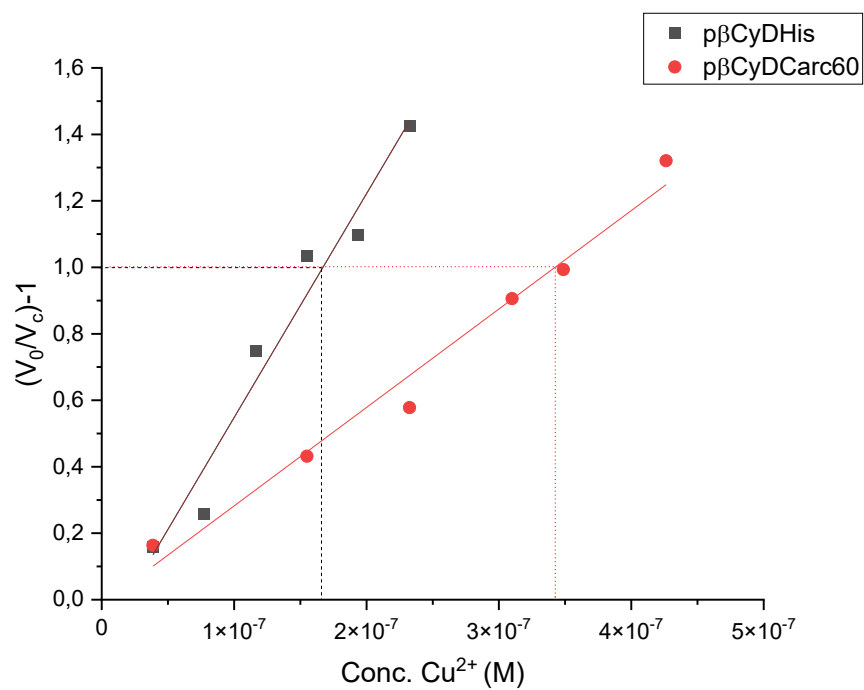


Figure 12S. Superoxide dismutase activity assay: V_o is the NBT reduction rate and V_c is the NBT reduction rate in the presence of Cu^{2+} -pβCyDHis and pβCyDCarc60. The IC_{50} value is the complex concentration for which $(V_o/V_c) - 1 = 1$