Supplementary Information

Self Assembly of Stable Oligomeric and Fibrillar Aggregates of Aβ Peptides Relevant to Alzheimers’ Disease: Morphology Dependent Cu/Heme Toxicity and Inhibition of PROS Generation

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Supplementary Figure S1. (A) AFM image of $\text{A}\beta_{\text{Cys}}$ assembled on Au electrode showing isolated structures of the $\text{A}\beta_{\text{Cys}}$ peptides in presence of $\text{C}_8\text{SH}$ as diluent ($\text{A}\beta_{\text{C8SH}}$). (B) is the height distribution profile diagram of the same.
Supplementary Figure S2. SERRS-RDE data of heme-\(\text{A}\beta_{1,9}\) modified electrodes in pH 7 buffer under oxidizing potential (i.e. resting state).
Supplementary Figure S3. SERRS-RDE data of heme-Aβ_{WT} at a reducing potential of -0.3 V vs. NHE. The Lorentzian fits of the marker bands show the two components, HS Fe^{II} (green) and residual HS Fe^{III} (red) species.
Supplementary Figure S4. CV data of heme-Aβ_{WT} (blue) and heme-Aβ_{1,9} (orange) (top), and Cu-Aβ_{WT} (bottom) modified electrodes in air saturated pH 7 buffer at a scan rate of 50 mV/s using Ag/AgCl as reference and Pt wire as counter electrodes respectively.
Supplementary Figure S5. RRDE plots of Cu bound species showing the disc ($I_D$) and ring ($I_R$) currents.