Electronic Supplementary Material (ESI) for Dalton Transactions. This journal is © The Royal Society of Chemistry 2014

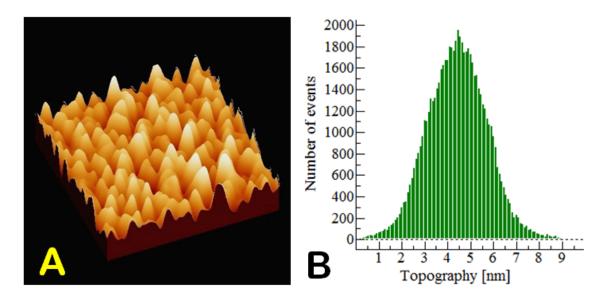
Supplementary Information

Self Assembly of Stable Oligomeric and Fibrillar Aggregates of A\beta Peptides Relevant to Alzheimers' Disease: Morphology Dependent Cu/Heme Toxicity and Inhibition of PROS Generation

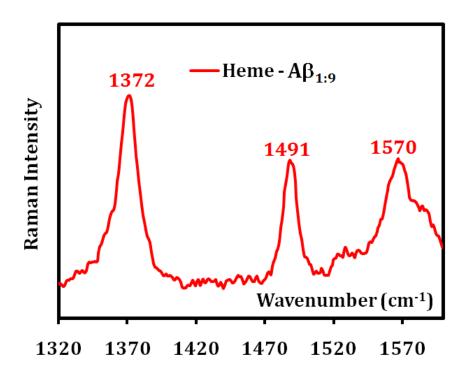
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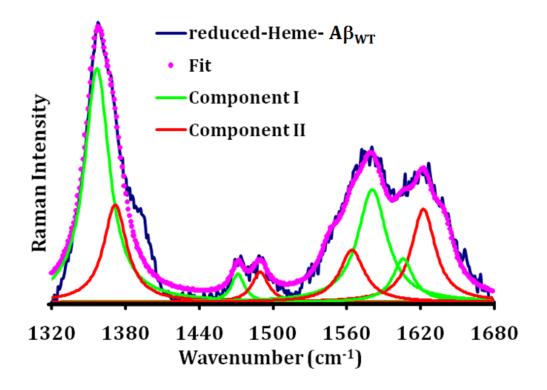
Figures



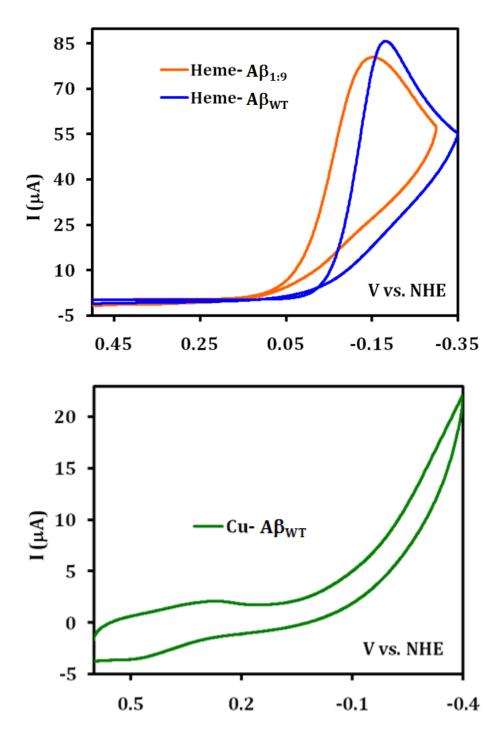
Supplementary Figure S1. (A) AFM image of $A\beta_{Cys}$ assembled on Au electrode showing isolated structures of the $A\beta_{Cys}$ peptides in presence of C_8SH as diluent $(A\beta_{C8SH})$. (B) is the height distribution profile diagram of the same.



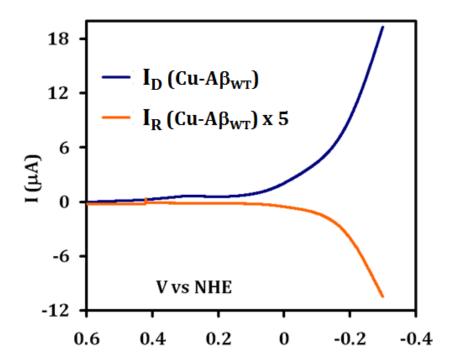
Supplementary Figure S2. SERRS-RDE data of heme-A $\beta_{1:9}$ modified electrodes in pH 7 buffer under oxidizing potential (i.e. resting state).



Supplementary Figure S3. SERRS-RDE data of heme-A β_{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- $A\beta_{WT}$ (blue) and heme- $A\beta_{1:9}$ (orange) (top), and Cu- $A\beta_{WT}$ (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.