

Supplementary Information

Gold nanoclusters Au₂₅AcCys₁₈ normalize intracellular ROS without increasing cytoplasmic alarmin acHMGB1 abundance in human microglia and neurons

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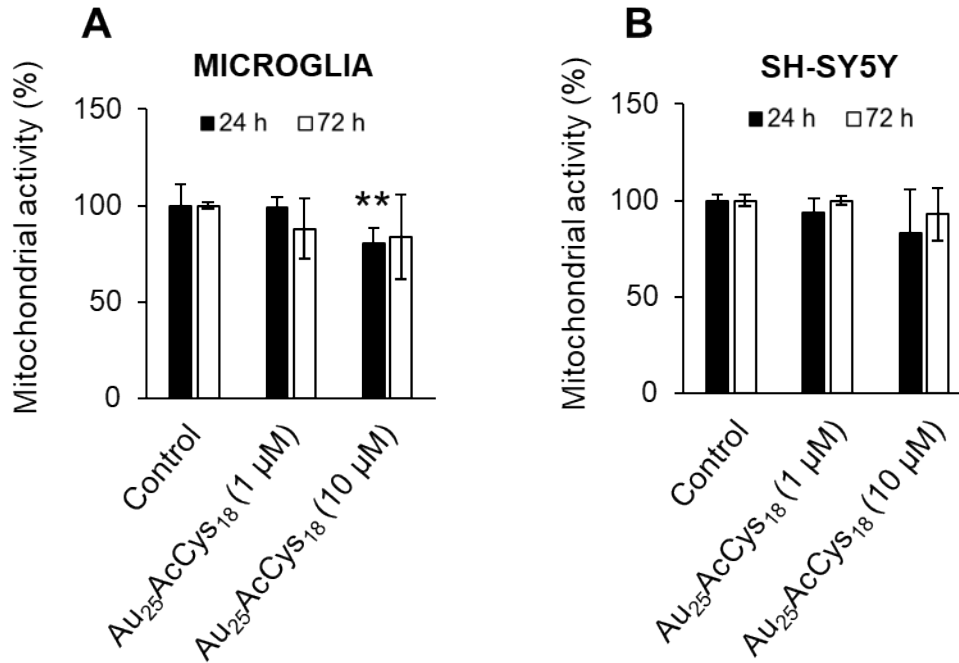


Fig. S1 Mitochondrial metabolic activity of (a) human microglia and (b) differentiated SH-SY5Y neuronal cells after 24 h and 72 h. The average mitochondrial metabolic activity was determined by the MTT assay and normalized to the untreated control (set to 100%) \pm SD. ** $p < 0.01$

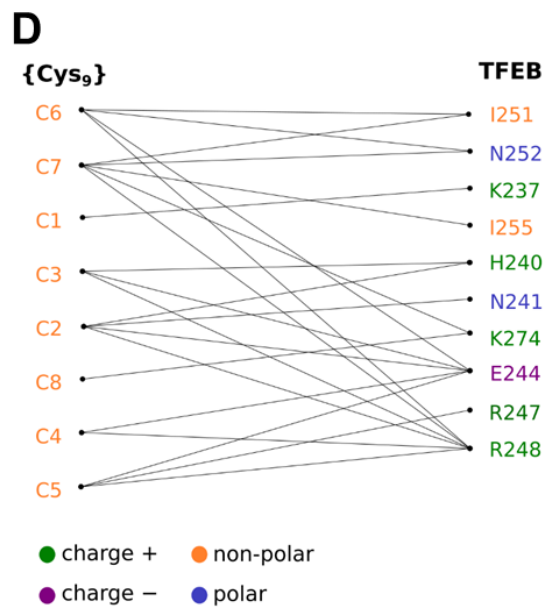
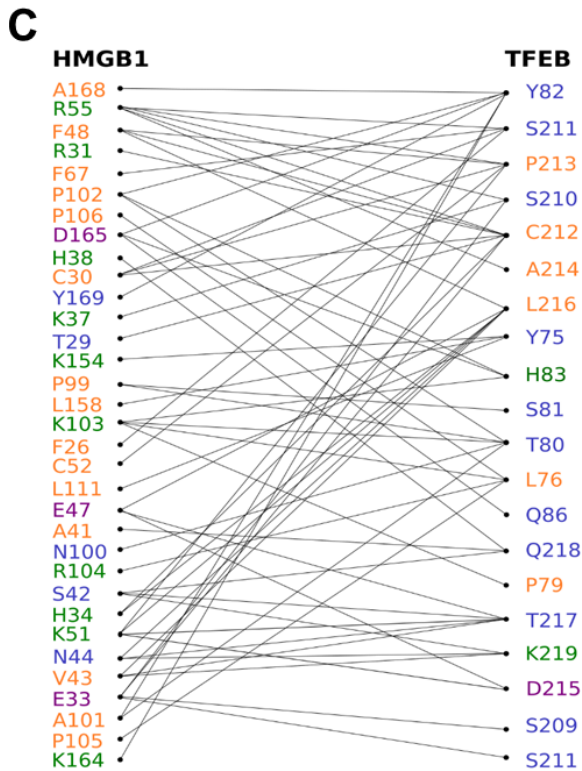
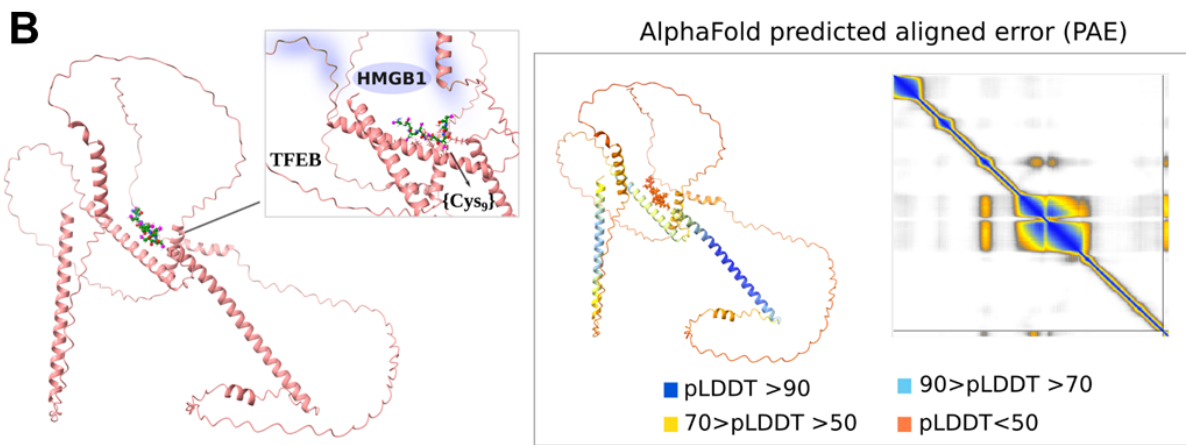
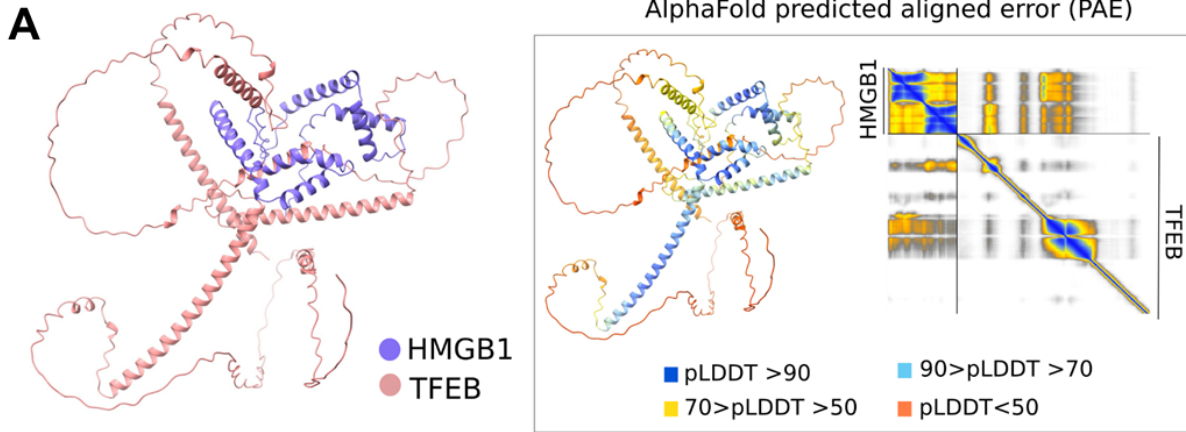


Fig. S2 (a) AlphaFold-predicted structure of HMGB1 interacting with TFEB (left) and the corresponding predicted aligned error (PAE) (right). (b) AlphaFold-predicted structure of TFEB interacting with {Cys₉}, with an enlarged view showing the interaction area between TFEB and HMGB1 (blue). The interaction of {Cys₉} and TFEB occurs at different position. The corresponding PAE for this structure is shown on the right. (c) Predicted amino acid contacts between HMGB1 and TFEB. On the left side of the diagram are listed all the amino acids from HMGB1 that form interactions with amino acids from the TFEB (on the right side). (d) Predicted amino acid contacts between {Cys₉} (left side of the diagram) and TFEB (right side of the diagram). Notice that different amino acids are involved in TFEB interaction with {Cys₉} and HMGB1, shown in (c).