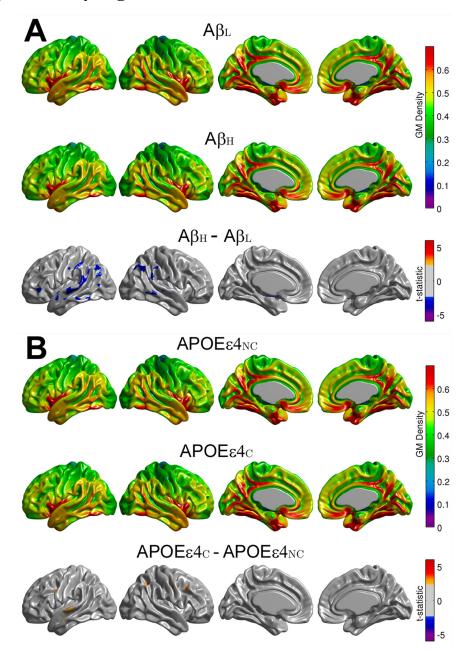
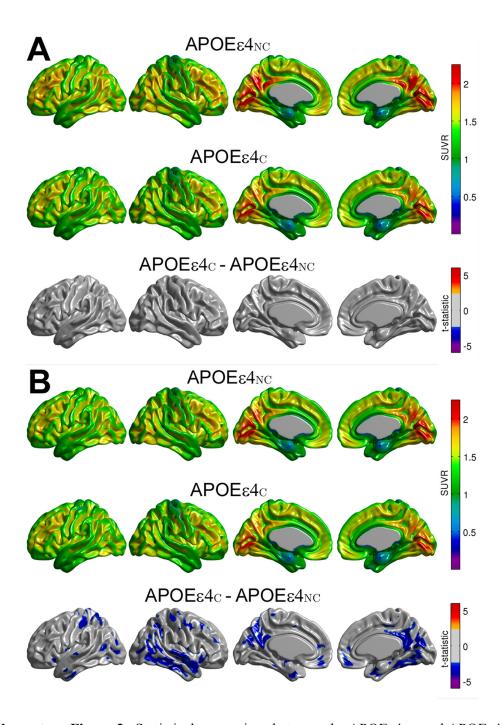
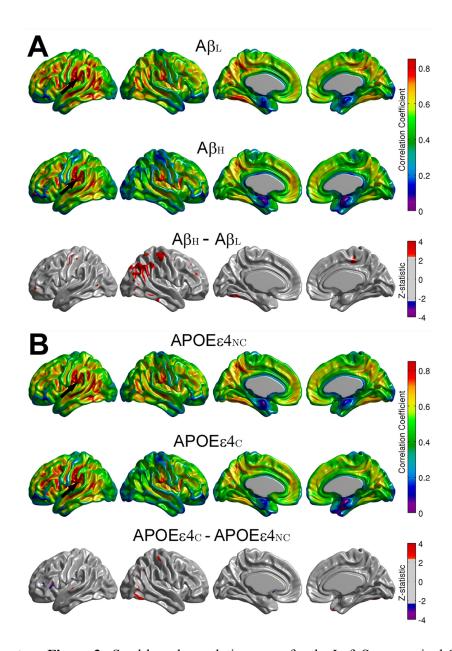
Supplementary Figures



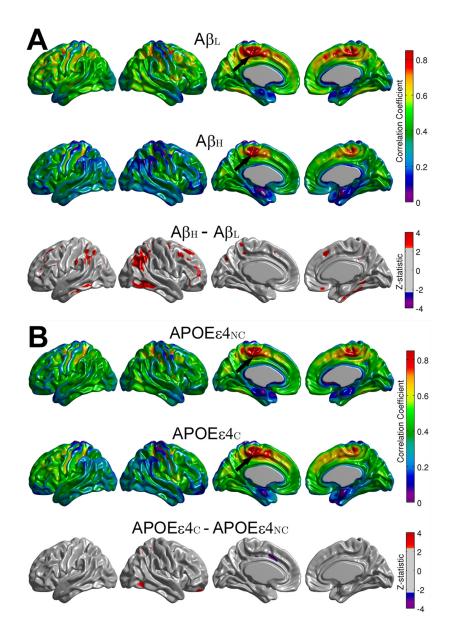
Supplementary Figure 1. Representative surface views of the GM density maps and thresholded (α = 0.05) t-statistic maps corresponding to the main effects of amyloid status and APOE ϵ 4 genotype on the gray matter density. The A β H group showed significantly reduced GM density in the lateral temporal and inferior parietal regions (A). The main effect of APOE ϵ 4 genotype did not reveal marked group differences (B).



Supplementary Figure 2. Statistical comparison between the APOE $\epsilon 4_{NC}$ and APOE $\epsilon 4E4_{C}$ groups corresponding to A β_L (A) and A β_H (B) groups (*i.e.* ANOVA interaction terms). Note the absence of significant APOE $\epsilon 4$ -related differences in the A β_L group, while the APOE $\epsilon 4_{C}$ group shows significant regional hypometabolism relative to the APOE $\epsilon 4_{NC}$ group in the A β_H group interaction term.



Supplementary Figure 3. Seed-based correlation maps for the Left Suprmarginal Gyrus. Maps are provided for the $A\beta_L$ group, $A\beta_H$ group, and thresholded Z-statistic for the $A\beta_L$ vs. $A\beta_H$ group differences (A). The arrows indicate the seed region. The $A\beta_H$ group showed reduced correlations relative to the A_L group, especially between the seed and the right lateral parietal lobe. Seed-based correlation maps for $APOE\epsilon 4_{NC}$ group, $APOE\epsilon 4_{C}$ group, and thresholded Z-statistic for the $APOE\epsilon 4_{NC}$ vs. $APOE\epsilon 4_{C}$ group differences are shown in (B). Only a few small clusters showing statistically significant differences are observable.



Supplementary Figure 4. Seed-based correlation maps for the Left Paracentral Lobule. Maps are provided for the $Aβ_L$ group, $Aβ_H$ group, and thresholded Z-statistic for the $Aβ_L$ vs. $Aβ_H$ group differences (A). The arrows indicate the seed region. The $Aβ_H$ group showed reduced correlations relative to the A_L group, especially between the seed and the inferior temporal gyrus and lateral parietal lobe. Maps for $APOEε4_{NC}$ group, $APOEε4_{C}$ group, and thresholded Z-statistic of the $APOEε4_{NC}$ vs. $APOEε4_{C}$ group differences are provided in (B). Only a few small clusters showing statistically significant differences between the $APOEε4_{NC}$ and $APOEε4_{C}$ groups.