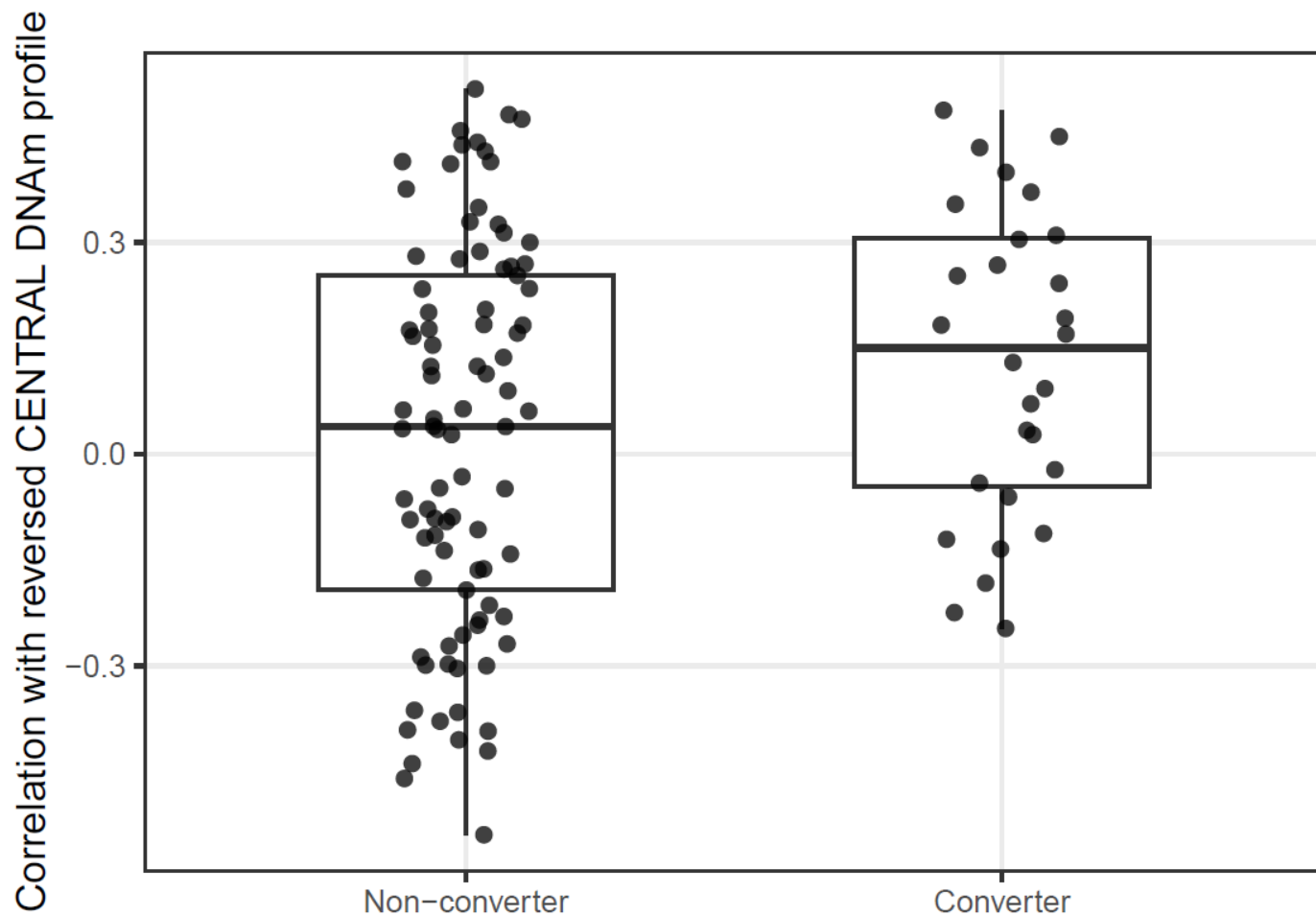
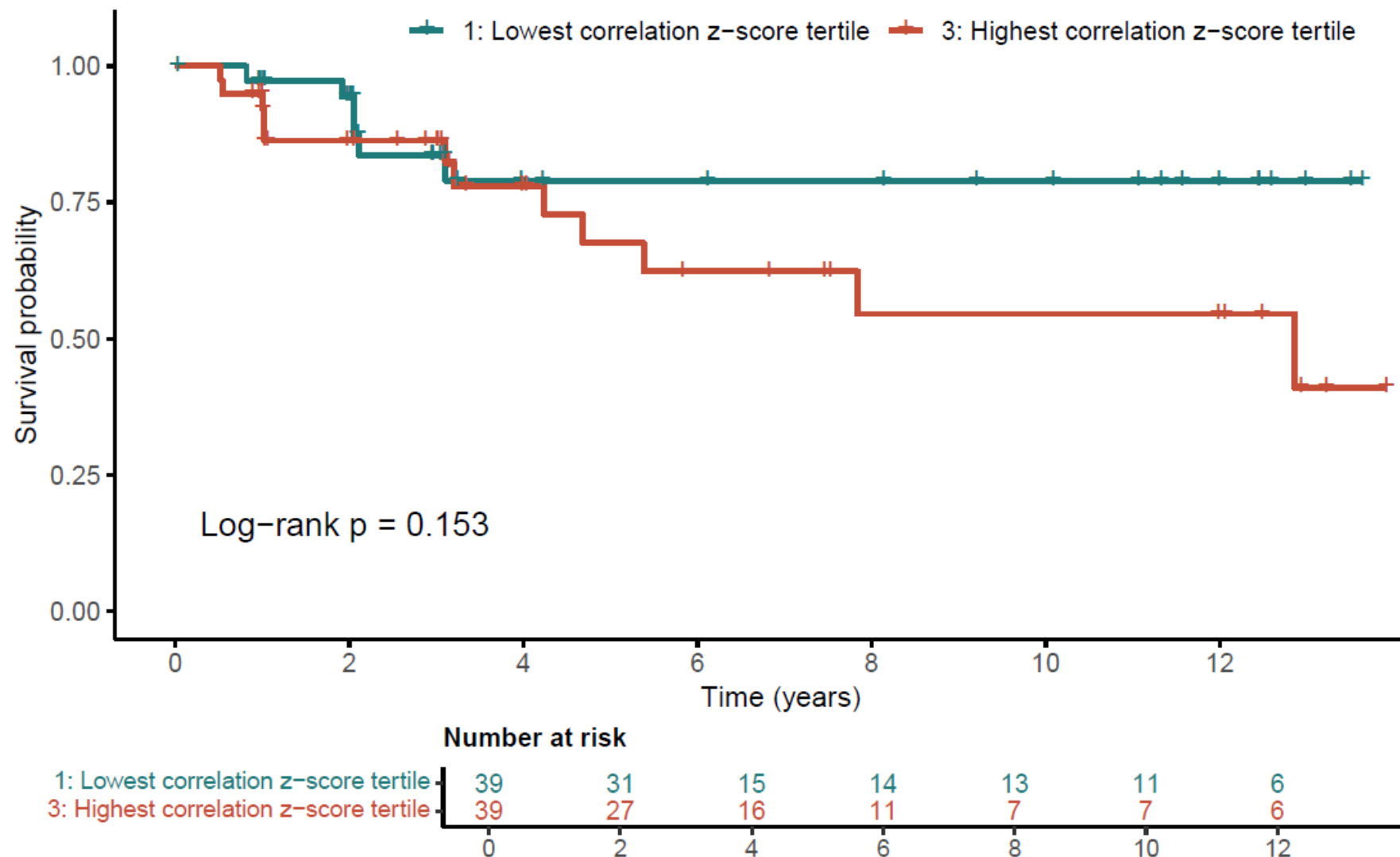




Supplementary Figure 1 DNAm correlation score by progression status in ADNI. The correlation score was calculated as the Spearman correlation between each participant's within-person DNAm change across the first two DNAm visits in ADNI and the reversed CENTRAL **diet + physical activity** DNAm profile (a weight-gain-associated DNAm profile). Higher values indicate greater alignment with the profile opposite to CENTRAL weight-loss-related DNAm changes. Each point represents one participant; boxes indicate the interquartile range, horizontal lines indicate the median, and whiskers represent values within 1.5 times the interquartile range.



Supplementary Figure 2 Kaplan–Meier curves comparing progression-free survival between ADNI participants in the lowest and highest tertiles of the standardized DNAm correlation score derived from the CENTRAL diet + physical activity weight-loss profile. Higher scores indicate greater similarity between within-person ADNI DNAm change and the reversed CENTRAL profile. Participants in the highest tertile showed lower progression-free survival than those in the lowest tertile (log-rank test P -value = 0.153).