

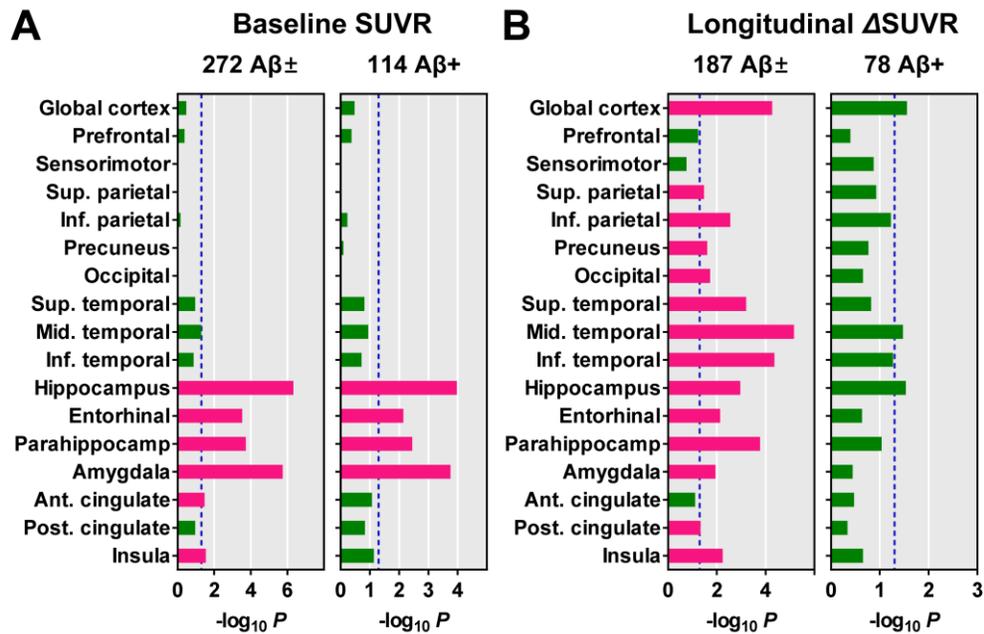
**Table S1.** Diagnosis and status of ApoE  $\epsilon$ 4 genotype of participants

|   | <b>CU</b>      | <b>MCI</b>                  | <b>DEM</b>                    |
|---|----------------|-----------------------------|-------------------------------|
| <b>n</b>                                      | 96             | 105                         | 71                            |
| <b>age (years)</b>                            | 66.3 $\pm$ 9.5 | 71.1 $\pm$ 9.1 <sup>a</sup> | 74.4 $\pm$ 9.6 <sup>a</sup>   |
| <b>Gender (M : F)</b>                         | 36:60          | 41:64                       | 17:54 <sup>b</sup>            |
| <b>Education (years)</b>                      | 11.9 $\pm$ 4.5 | 11.2 $\pm$ 4.5              | 9.8 $\pm$ 5.7                 |
| <b>MMSE</b>                                   | 28.2 $\pm$ 1.8 | 25.7 $\pm$ 2.7 <sup>a</sup> | 19.1 $\pm$ 5.3 <sup>a,b</sup> |
| <b>CDR-SB</b>                                 | 0              | 1.5 $\pm$ 1.0 <sup>a</sup>  | 5.0 $\pm$ 2.5 <sup>a,b</sup>  |
| <b>Amyloid positivity</b>                     | 9/87 (9%)      | 49/58 (47%) <sup>a</sup>    | 56/15 (79%) <sup>a,b</sup>    |
| <b>ApoE <math>\epsilon</math>4 allele</b>     |                |                             |                               |
| <b><math>\epsilon</math>4 Negative(%)</b>     | 79 (82%)       | 75 (71%)                    | 41 (58%)                      |
| <b><math>\epsilon</math>4 Heterozygous(%)</b> | 16 (17%)       | 22 (21%)                    | 24 (34%)                      |
| <b><math>\epsilon</math>4 Homozygous(%)</b>   | 1 (1%)         | 8 (8%)                      | 6 (9%)                        |

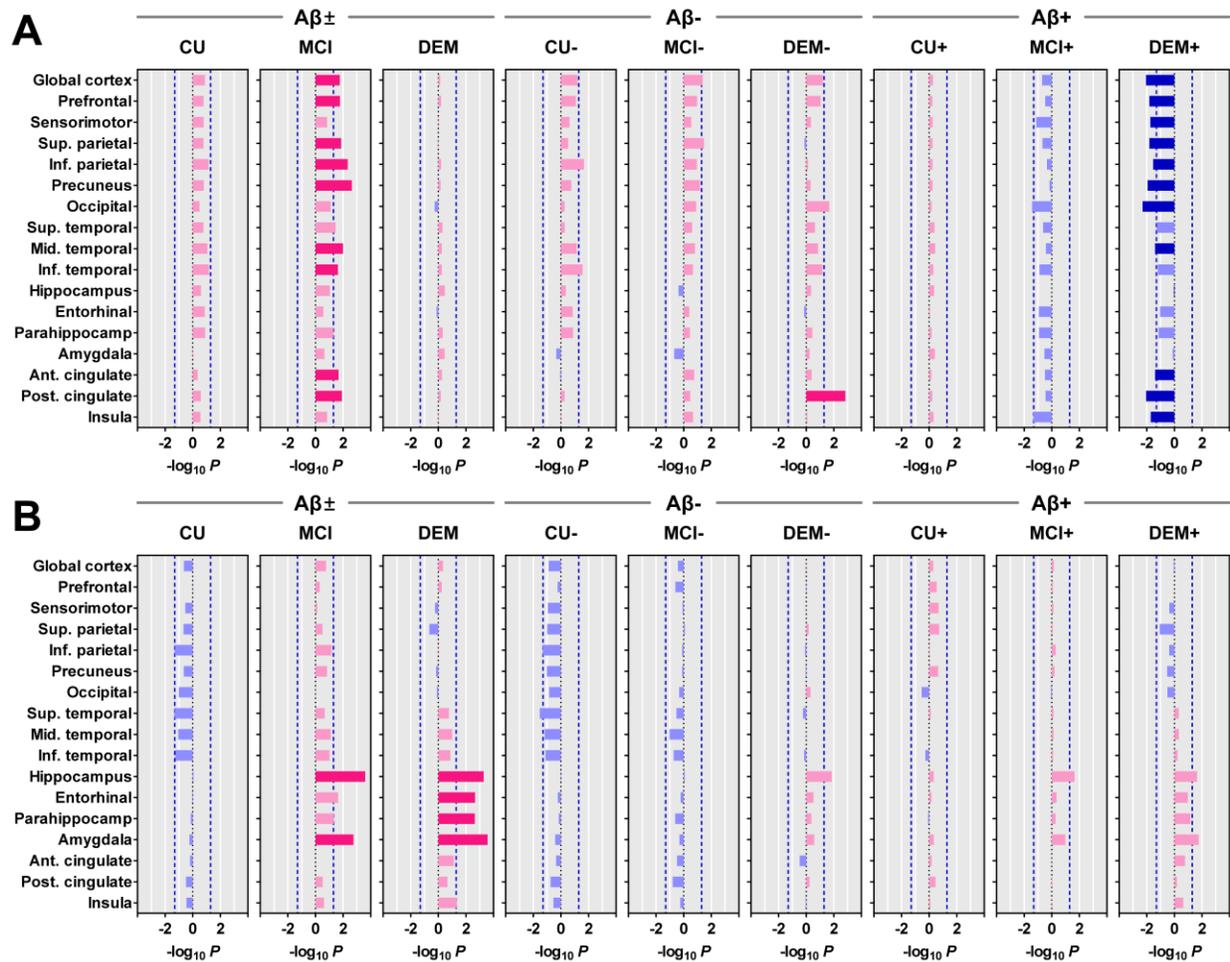
Data are presented as mean  $\pm$  SD. <sup>a</sup> $P < 0.05$  for the comparisons between the CU and each group.

<sup>b</sup> $P < 0.05$  for the comparisons between the MCI and DEM groups.

Abbreviations: CU = cognitively unimpaired; MCI = mild cognitive impairment; DEM = dementia; A $\beta$ +/- = A $\beta$ -positivity; ApoE = apolipoprotein-E; MMSE = Mini-Mental State Examination; CDR-SB = Clinical Dementia Rating sum-of-boxes



**Fig. S1.** Comparison of baseline  $^{18}\text{F}$ -flortaucipir SUVR values (A) and their changes at follow-up (B) between the ApoE  $\epsilon 4^-$  and  $\epsilon 4^+$  groups after adjusting for the baseline A $\beta$  burden. Red bars represent the regions that survived after correcting for multiple comparisons (false discovery rate-corrected  $P < 0.05$ ), and blue dotted lines represent uncorrected  $P = 0.05$ . Abbreviations: A $\beta$ +/- = A $\beta$ -positivity, ApoE = apolipoprotein-E, SUVR = standardized uptake value ratio



**Fig. S2.** Comparison of baseline  $^{18}\text{F}$ -florbetaben (A) and  $^{18}\text{F}$ -flortaucipir (B) SUVR values between the ApoE  $\epsilon 4^-$  and  $\epsilon 4^+$  groups in each group for cognitive status

Blue and light blue bars represent the  $-\log_{10}P$  for ApoE  $\epsilon 4^- > \epsilon 4^+$ , and red and light red bars represent the  $-\log_{10}P$  for ApoE  $\epsilon 4^- < \epsilon 4^+$ . Blue and red bars represent the regions that survived after correcting for multiple comparisons (false discovery rate-corrected  $P < 0.05$ ), and blue dotted lines represent uncorrected  $P = 0.05$ .