Supplementary Figure 1

A  Coherence

B  Metastability

F-Statistic vs. Frequency Onset

*  **  ***
Supplementary Figure 2

0.04-0.07 Hz

Coherence

Residual

HC  PC  MCI  AD

Metastability

FC strength (HC vs. AD)

Healthy Controls > Alzheimer's Disease
Supplementary Figure 3

0.04-0.07 Hz

CSF Biomarker Partial Correlation Maps (All Subjects)

Amyloid Beta

CSF Biomarker Partial Correlation Maps (Clinical Groups)

p-tau

t-tau

FC strength

FC strength
Supplementary Figure 4

A. eFC - sFC fit

B. Coherence

C. Metastability

$r = 0.93$

$p < 0.001$

$r = 0.72$

$p < 0.001$
Supplementary Figure 5
Supplementary Figure 6

A  Amyloid Beta
L

CBF Biomarker Correlations (All Subjects)
B  p-tau
R  L
C  t-tau
R  L

EC (Input)

EC (Output)

partial correlation

-0.5  0.5
Supplementary Figure 8

A  FC change similarity (EC)

B  FC change similarity (SC)