Supplementary Material

# Supplementary Figures

A comparison of a graph

Description automatically generated**Supplementary Figure S1.** tSNE exploratory visualisation (on Loess normalised, pre-and post-Combat, NCF dataset). The batch effect was improved by ComBat with no discernable difference by run number for the clinical samples.

A close-up of a blue and red square

Description automatically generated

**Supplementary Figure S2.** PSA sample identification (post-loess normalisation).

# Supplementary Tables

**Supplemental Table S1.** Differential expression analysis of the autoantibodies in dementia vs cognitively normal controls identified by limma.

**Supplemental Table S2**. Differential expression analysis of the autoantibodies in dementia vs MCI identified by limma.

**Supplemental Table S3.** Differential expression analysis of the autoantibodies in MCI vs cognitively normal subjects identified by limma.

**Supplemental Table S4.** Correlation of plasma level of autoantibodies with the cognitive performance score (MoCA) in subjects with MCI and dementia.