



**Supplementary Figure 1.** Age-adjusted comparisons. (A) To account for age differences between the study samples, we calculated age-adjusted serum neurofilament light chain (NFL) levels (residuals after regressing out the effect of age). Compared with healthy controls (HCs), age-adjusted serum NFL levels were increased in CADASIL (CAD) and sporadic small vessel disease (sSVD) patients. (B) Comparison between serum NFL levels after matching HC subgroups for age (using similar median and interquartile range) to either the CADASIL (young HC) or sSVD (old HC) sample. Please note the logarithmic scale in both panels. CADASIL, Cerebral Autosomal-Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy. \* $P < 0.001$  (Wilcoxon rank sum test with Bonferroni correction).