**Supplementary materials**

Here, correlations between YKL-40 and cerebrospinal fluid core biomarkers (Aβ, p-tau, t-tau) for Alzheimer’s disease are reported.

**Figure 1**. Scatterplots with regression line (for visualization purposes only) illustrating correlation between YKL-40 and Aβ1-42 in the entire sample (spearman rank-order correlation test).

*Abbreviations*: ADD= Alzheimer’s disease dementia, HC= healthy controls, MCI= mild cognitive impairment.



**Figure 2**. Scatterplots with regression line (for visualization purposes only) illustrating correlation between YKL-40 and p-tauin the entire sample (spearman rank-order correlation test).

*Abbreviations*: ADD= Alzheimer’s disease dementia, HC= healthy controls, MCI= mild cognitive impairment.



**Figure 3**. Scatterplots with regression line (for visualization purposes only) illustrating correlation between YKL-40 and t-tauin the entire sample (spearman rank-order correlation test).

*Abbreviations*: ADD= Alzheimer’s disease dementia, HC= healthy controls, MCI= mild cognitive impairment.

