**SUPPLEMENTARY MATERIAL**

**Figure S1:** LASSO regression and ROC analysis. (A) LASSO regression shrinkage coefficient map of 19 variables, including traditional and computerized normalized test scores and demographical information (age, gender and education) of subjects with A+/T+ and A-/T- CSF profiles. The trajectories of the first five non-zero coefficients at increasing log (λ) are highlighted with thicker lines. At λ = λmin, only age, gender and SWM\_Between error (SWM\_Error) display coefficients different from zero. At λ = λ1SE, only age and SWM\_Error display non-null coefficients. (B) ROC analysis was carried out to assess SWM between error value in distinguishing A-/T- and from A+/T+ subjects. A moderate performance in discriminating these groups was obtained (AUC = 0.71, 95% CI 0.58–0.85), yielded a threshold of -0.75 (95% confidence interval (CI): -1.27 - 0.55), with a sensitivity of 0.7 (95% CI: 0.35 - 1) and a specificity of 0.74 (95% CI: 0.31 - 1).

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