**Hippocampal neural fluctuation between memory encoding and retrieval states during a working memory task in humans**

# **Figures**



## **Figure S1. Correlations among variables**

The heatmap shows the correlation coefficients among variables related to the modified Sternberg task and detected sharp-wave ripple (SWR) parameters. Note that the “previous correct” and set size (= the number of alphabetical letters to encode) showed a correlation coefficient of 0.26 because the set size was always fixed at four after incorrect tasks. Abbreviations: previous set size, the set size of a previous trial; previous correct, incorrect (= 0) or correct (= 1) of the previous trial; match, Match IN (0) or Mismatch OUT (1) of the trial; log10(duration [ms]), log10(duration [ms]) of sharp-wave ripple (SWR) event; log10(ripple peak amplitude [SD of baseline]), log10(ripple peak amplitude [SD of baseline]) of SWR event; # of spikes, the number of spikes during a SWR event.