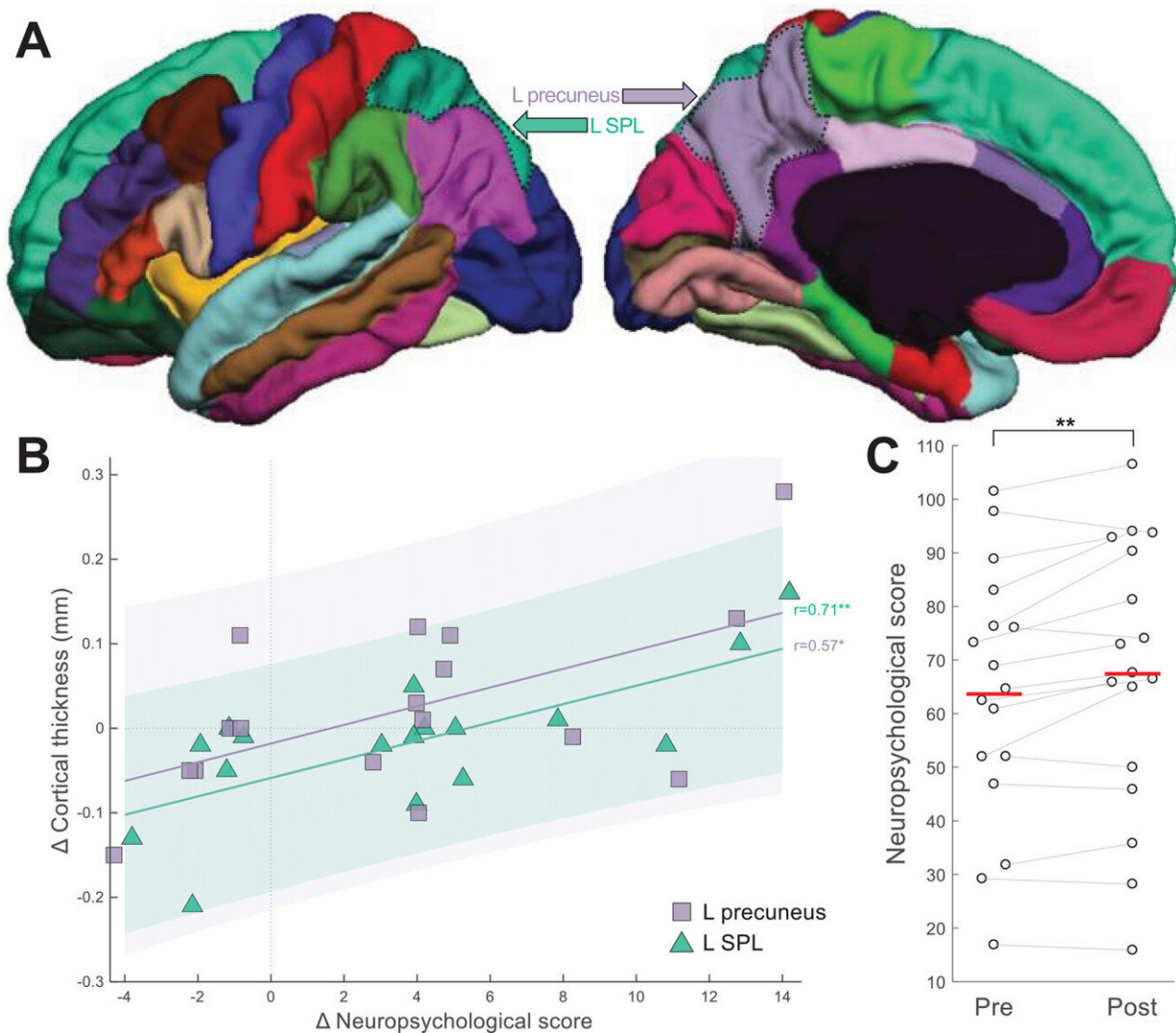


# Ultrasound brain stimulation slows dementia-related brain degeneration

August 9 2021



Brain–behavior correlations. A, Regions of interest—namely left superior parietal lobule (SPL) and left precuneus—where a significant correlation (plotted in panel [B]) was observed between pre-to-post change in cortical

thickness and in neuropsychological scores (corrected total score [CTS]). The two regions of interest are highlighted with dotted black contours on lateral and medial views of the DKT atlas parcellation; base image from the Mindboggle project ([www.dataverse.harvard.edu/dataverse/mindboggle101](http://www.dataverse.harvard.edu/dataverse/mindboggle101)). B, Data points in the scatter plot represent patients (N = 17; SPL: green triangles; precuneus: purple squares). Data points sharing the same x value are horizontally jittered by up to 0.25 units to aid visualization. Vertical/horizontal dotted gray lines correspond to no pre-to-post change in terms of neuropsychological score/cortical thickness. “ $\Delta$ ” in the axis labels refers to pre-to-post-TPS change. C, Distribution of neuropsychological (CTS) scores, pre- and post-TPS. Dots represent individual patients, with gray lines connecting values at pre and at post. Horizontal red lines indicate group means. \*P

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