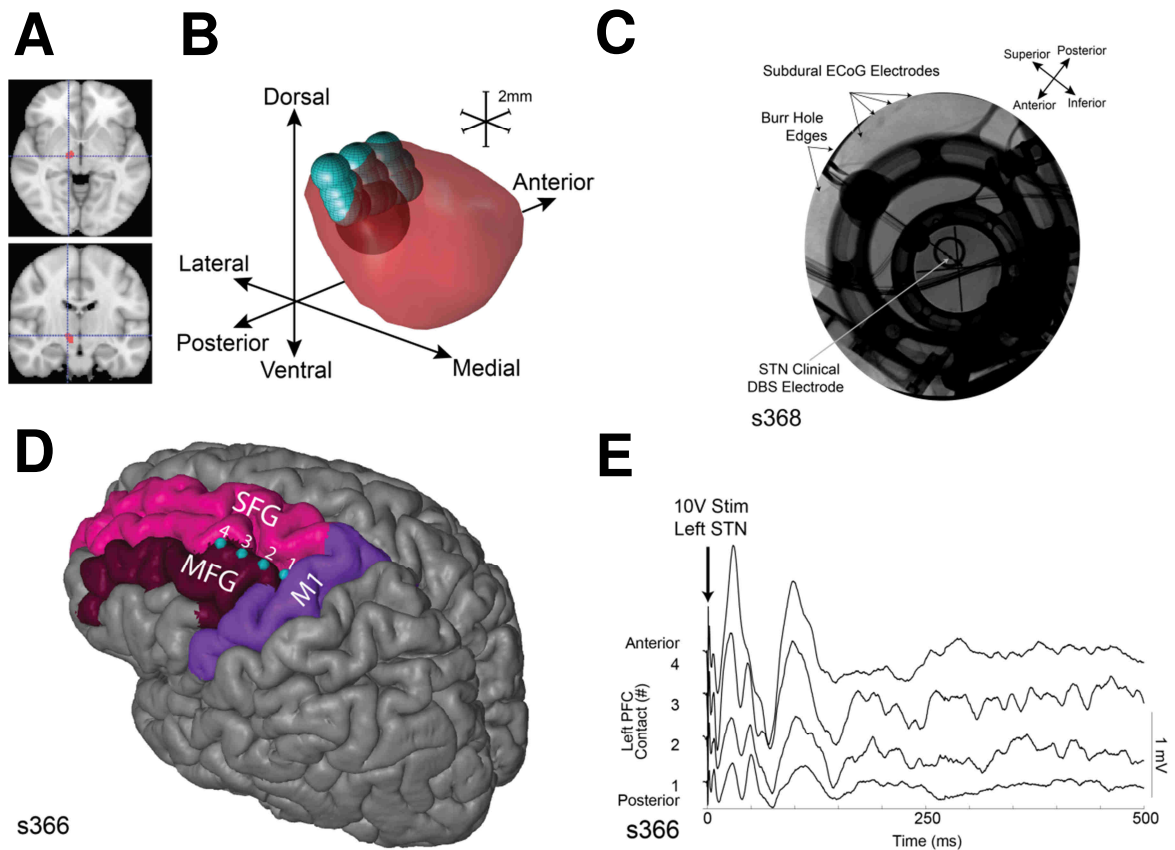# Supplementary Material

Supplementary Fig. 1. Human STN and lPFC recording sites during ESTT. Related to Fig. 1. A) MNI-152 template brain showing STN-DBS indirect target (STN in red). B) Reconstructed multielectrode recording sites (in blue) in MNI space from 10 patients; indirect target marked by dark circle. Only sites within STN and with clear neuronal activity were included in our analysis. C) Plain film of intraoperative recordings during STN-DBS implantation. Intraoperative X-ray showing the burr hole edges, distance of the electrodes from the burr hole edge, location of the subdural electrodes, and the STN clinical depth electrode. D) ECoG electrode locations in lPFC (middle frontal gyrus; MFG) and primary motor cortex (M1) during ESTT in an exemplar subject. D) Evoked potentials in lPFC and M1 after 10V STN stimulation. These voltage traces demonstrate STN stimulation-induced lPFC and M1 oscillations at a longer time window (500 ms).