

Supplementary Material

Effects of very low- and high-frequency subthalamic stimulation on motor cortical oscillations during rhythmic lower-limb movements in Parkinson's disease patients

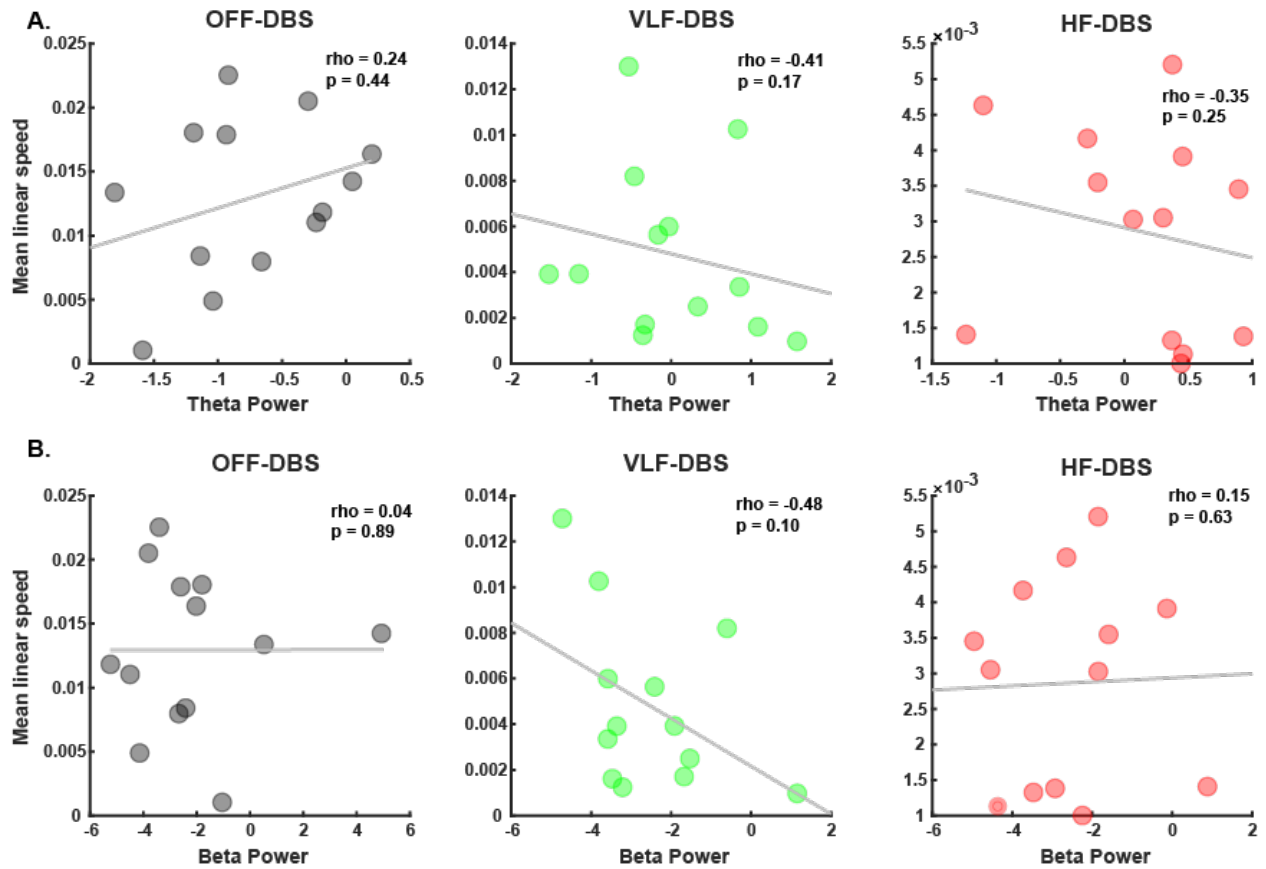
Supplementary Table 1. Levodopa Equivalent Daily Dosage for each subject

PDFOG-	PDFOG+
950 mg	900 mg
650 mg	1,050 mg
675 mg	374 mg
1,300 mg	600 mg
1,243 mg	650 mg
3,150 mg	0 mg
800 mg	

Supplementary Table 2. EEG descriptive statistics

	PD			PDFOG-			PDFOG+		
	OFF	VLF	HF	OFF	VLF	HF	OFF	VLF	HF
Pre-Cue Preparatory Period									
<i>Theta</i>	0.019 ±	0.057 ±	0.05 ±	0.015 ±	0.061 ±	0.053 ±	0.024 ±	0.052 ±	0.046 ±
	0.003	0.007	0.007	0.005	0.009	0.011	0.002	0.011	0.01
<i>Beta</i>	0.006 ±	0.013 ±	0.012 ±	0.003 ±	0.012 ±	0.01 ±	0.009 ±	0.015 ±	0.015 ±
	0.001	0.002	0.002	0.001	0.003	0.003	0.001	0.002	0.003
Lower-limb Pedaling Task									
<i>Theta</i>	-0.75 ±	0.01 ±	0.11 ±	-0.81 ±	-0.1 ±	0.09 ±	-0.68 ±	0.14 ±	0.14 ±
	0.17	0.25	0.19	0.3	0.41	0.26	0.16	0.27	0.29
<i>Beta</i>	-2.17 ±	-2.52 ±	-2.57 ±	-0.96 ±	-0.89 ±	-0.94 ±	-0.91 ±	-0.83 ±	-0.87 ±
	0.73	0.44	0.47	0.17	0.22	0.2	0.15	0.19	0.15

Values represent mean ± SEM oscillatory power (dB).



Supplementary Figure 1. Correlation analysis between motor cortical EEG oscillations and movement kinematic during differing frequencies of STN-DBS. No associations were observed between mean linear speed and A) theta power at STN OFF-DBS, very low frequency (VLF)-DBS, or high frequency (HF)-DBS or B) beta power at OFF-DBS, VLF-DBS, or HF-DBS.