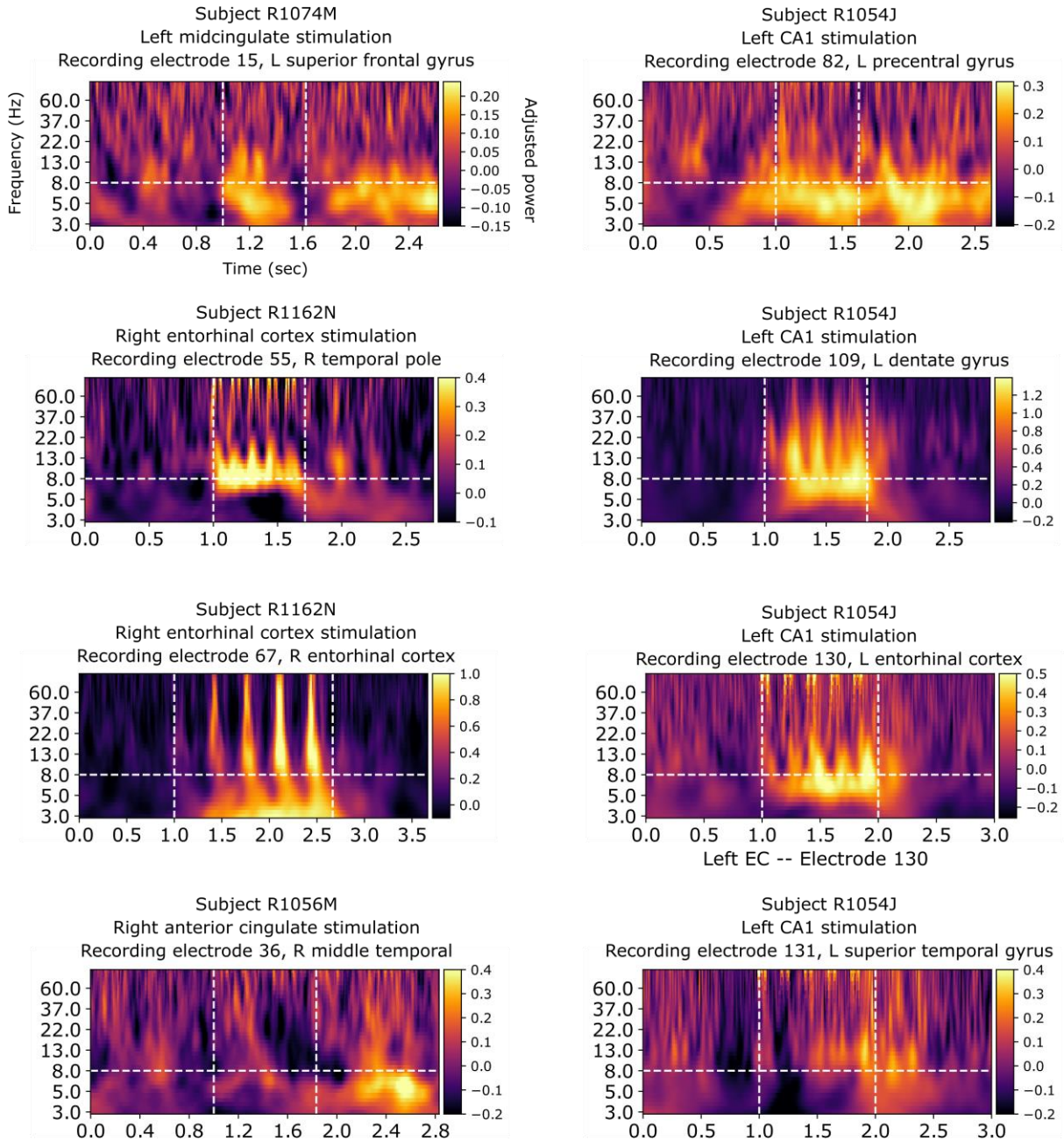
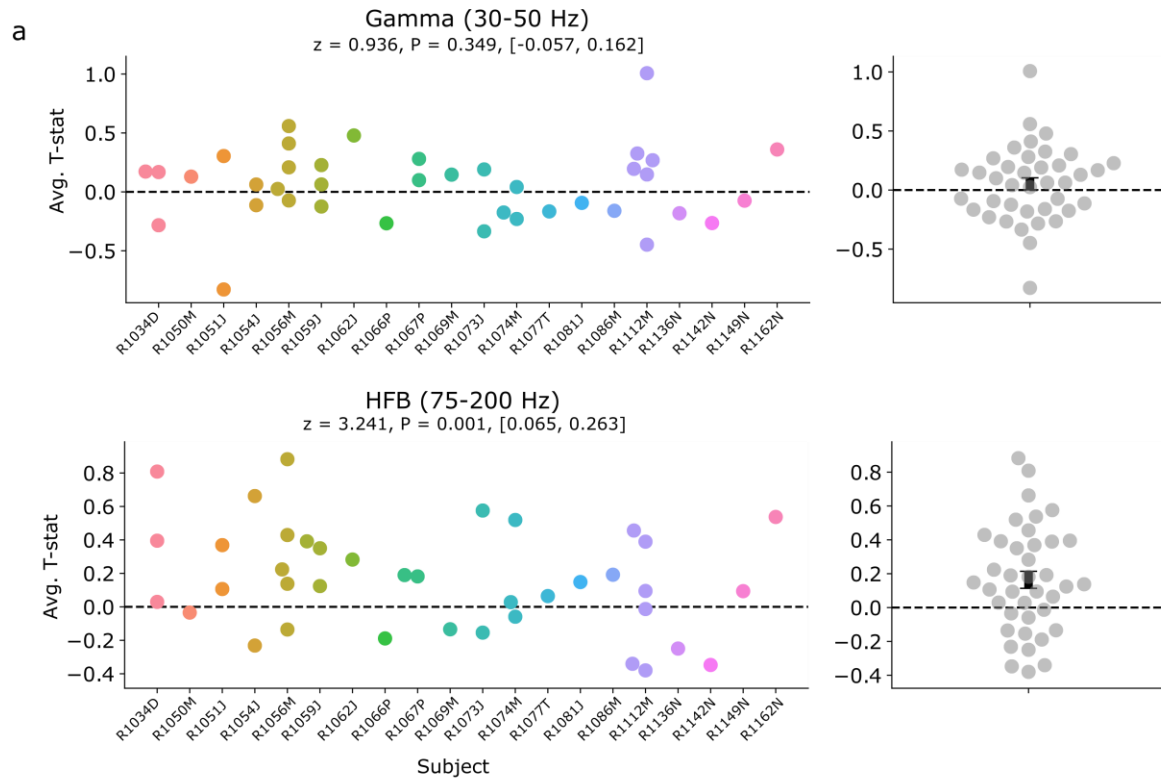




Supplemental Figure 1. Example spectrograms of theta power response to TBS. Structured as in Figure 4a.



Supplemental Figure 2. Stimulation-induced responses in higher frequency bands and prolonged effects of stimulation. (a) Structured as in Figure 2b-c. *t*-statistics are computed for each electrode representing the degree to which stimulation changes gamma (30-50 Hz) or high-frequency broadband (75-200 Hz) power averaged, and then across electrodes for each stimulation session/target. *Left:* The distribution of average *t*-statistics are shown for each subject, which are analyzed using a LMM to determine the population-level effect of stimulation. We found no significant response in the gamma band, but there was a significant increase in HFB power (LMM Wald test, $z=3.24, P=0.001$, Intercept: $[0.065, 0.263]$ 95% CI). *Right:* Distribution of average *t*-statistics across all sessions, error bars show ± 1 SEM.

Subject	Session	Stimulation Target	Stimulated electrode index	Number of responsive electrodes	Average brainwide theta t-statistic
R1034D	2	Left DG	71	7	0.663284272
R1050M	0	Left TC	77	3	0.260830951
R1051J	0	Left Precentral Gyrus	27	1	-0.117635098
R1051J	1	Left Precentral Gyrus	33	1	0.495637046
R1142N	0	Left Middle Temporal Gyrus	60	2	0.010018778
R1054J	0	Left CA1	118	18	0.961617885
R1054J	1	Left CA1	119	1	-0.378963599
R1056M	0	Right CA1	15	17	0.689995001
R1056M	1	Right DG	13	5	0.068599456
R1056M	2	Right Supramarginal Gyrus	92	4	0.282182057
R1056M	3	Right Amy	0	24	1.264917543
R1056M	4	Right ACg	55	13	0.492840737
R1059J	0	Right EC	91	15	0.461842255
R1059J	1	Right EC	86	4	0.530376995
R1059J	2	Right EC	81	1	-0.047174213
R1062J	0	Right Precentral Gyrus	126	3	0.177968677
R1067P	0	Left CA3	112	21	1.333422146
R1067P	1	Left CA2	113	2	0.277677331
R1069M	0	Left DLPFC	31	1	0.227644859
R1073J	0	Left PRC	64	1	0.121792976
R1073J	1	Left PRC	65	1	-0.409417027
R1074M	1	Left MCg	46	7	0.349567418
R1074M	2	Left DLPFC	44	1	0.278792339
R1077T	0	Left Sub	99	9	0.427334136
R1112M	3	Right DG	3	1	-0.173287273
R1112M	4	Right CA1	6	4	0.478420071
R1112M	5	Right Amy	2	2	0.266311364
R1149N	0	Left Middle Temporal Gyrus	25	1	-0.192357706
R1162N	0	Right EC	52	4	-0.002735454

Supplemental Table 1. Subjects/targets with positive theta response to TBS.

Subject	Session	Stimulation Target	Stimulated electrode index	Number of responsive electrodes	Average brainwide theta T-statistic
R1051J	0	Left Precentral Gyrus	27	2	-0.11764
R1142N	0	Left Middle Temporal Gyrus	60	1	0.010019
R1054J	0	Left CA1	118	2	0.961618
R1054J	1	Left CA1	119	2	-0.37896
R1056M	0	Right CA1	15	1	0.689995
R1056M	1	Right DG	13	2	0.068599
R1056M	2	Right Supramarginal Gyrus	92	1	0.282182
R1056M	4	Right ACg	55	3	0.492841
R1059J	0	Right EC	91	3	0.461842
R1059J	2	Right EC	81	1	-0.04717
R1062J	0	Right Precentral Gyrus	126	5	0.177969
R1066P	0	Left Sub	14	1	-0.43518
R1073J	0	Left PRC	64	1	0.121793
R1073J	1	Left PRC	65	1	-0.40942
R1074M	1	Left MCg	46	2	0.349567
R1077T	0	Left Sub	99	1	0.427334
R1081J	0	Left ACg	56	2	-0.2464
R1112M	1	Right Amy	1	1	0.13
R1112M	2	Right DG	4	3	-0.57315
R1112M	4	Right CA1	6	1	0.47842
R1136N	0	Left EC	29	1	-0.21689
R1162N	0	Right EC	52	3	-0.00274

Supplemental Table 2. Subjects/targets with negative theta response to TBS.