

Table S3. Analysis of theta segments parameters by wavelet analysis

Parameter	Region	Basal	Saline	FG-7142	DBS1	DBS2	DBS3	DBS4	DBS5	POST-DBS
Temporal Ratio	dHPC	0.0913 ± 0.0070	0.0904 ± 0.0073	0.6709 ± 0.0507***	0.5963 ± 0.0501***	0.5491 ± 0.0511***	0.4339 ± 0.0304***	0.2987 ± 0.0356***	0.1439 ± 0.0126***	0.1170 ± 0.0127*
	iHPC	0.2061 ± 0.0289	0.2309 ± 0.0352	0.5417 ± 0.0370***	0.5730 ± 0.0247***	0.5283 ± 0.0335***	0.5039 ± 0.0383***	0.3743 ± 0.0340***	0.2061 ± 0.0175	0.2135 ± 0.0206
	vHPC	0.1473 ± 0.0119	0.1353 ± 0.0158	0.5433 ± 0.0447***	0.6053 ± 0.0412***	0.5847 ± 0.0409***	0.3840 ± 0.0382***	0.3467 ± 0.0422***	0.1527 ± 0.0130	0.1423 ± 0.0153
	BLA	0.1230 ± 0.0127	0.1174 ± 0.0120	0.3357 ± 0.0289***	0.2961 ± 0.0286***	0.2800 ± 0.0186***	0.2435 ± 0.0137***	0.1904 ± 0.0182***	0.1461 ± 0.0115	0.1287 ± 0.0100
Mean Width	dHPC	0.7109 ± 0.0552	0.8070 ± 0.0837	3.1604 ± 0.2137***	2.7522 ± 0.2710***	2.8117 ± 0.1298***	2.4991 ± 0.2755***	1.4204 ± 0.2609***	1.0287 ± 0.1696**	0.7887 ± 0.0996
	iHPC	0.7745 ± 0.0824	0.8248 ± 0.1043	2.5422 ± 0.2227***	2.4791 ± 0.1841***	2.1570 ± 0.1357***	1.4822 ± 0.1438***	1.3427 ± 0.1690***	1.0764 ± 0.1580*	0.9736 ± 0.1217*
	vHPC	0.6340 ± 0.0297	0.6373 ± 0.0274	1.1180 ± 0.0564***	1.2180 ± 0.0887***	1.0013 ± 0.0502***	0.9747 ± 0.0762***	0.7480 ± 0.0373	0.7900 ± 0.0556*	0.7060 ± 0.0605
	BLA	0.6096 ± 0.0544	0.5552 ± 0.0528	1.1183 ± 0.0762***	1.1059 ± 0.0770***	0.8362 ± 0.0473***	0.8565 ± 0.0506***	0.7670 ± 0.0808***	0.6257 ± 0.0538	0.6200 ± 0.0567
Segments	dHPC	9.897 ± 0.696	9.636 ± 0.696	15.530 ± 0.892***	15.470 ± 0.527***	14.617 ± 0.608***	21.487 ± 1.067***	10.939 ± 0.643**	10.565 ± 0.686*	9.929 ± 0.736
	iHPC	15.826 ± 1.428	14.826 ± 0.790	19.574 ± 0.866***	21.835 ± 0.938***	18.614 ± 0.961**	18.522 ± 0.954*	18.609 ± 1.986*	15.017 ± 0.699	15.087 ± 0.857*
	vHPC	11.427 ± 1.019	10.907 ± 1.217	17.483 ± 0.0911***	18.920 ± 1.771***	24.707 ± 2.103***	24.000 ± 1.696***	14.600 ± 0.907†	14.667 ± 1.1183*	13.960 ± 0.890
	BLA	14.435 ± 1.323	13.443 ± 1.036	28.130 ± 0.1529***	30.417 ± 1.657***	29.139 ± 2.500***	26.930 ± 1.645***	18.974 ± 1.071†	19.530 ± 1.406***	17.470 ± 1.409

Note: Mean ± se (bold: statistical significance in pairwise comparisons to basal period; ***p< 0.001, **p< 0.01; *p< 0.05; †: 0.08<p<0.05)