Supplementary Table for Statistics for every figure panel.

| Figure | Test type | N | Stat-value | P-value | Cohen's effectsize |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1D-1 | Rayleigh | 9476 | $\mathrm{z}=4214.7$ | $\mathrm{p}<1 \times 10^{-16}$ | / |
| 1D-2 | Rayleigh | 9476 | $\mathrm{z}=3489$ | $\mathrm{p}<1 \times 10^{-16}$ | / |
| 1D-3 | Rayleigh | 9476 | $z=1416$ | $\mathrm{p}<1 \times 10^{-16}$ | / |
| 1D-4 | Rayleigh | 9476 | $\mathrm{z}=548.16$ | $\mathrm{p}<1 \times 10^{-16}$ | / |
| 2D | Mixed-model ANOVA | $\begin{aligned} & \text { Sham =5 } \\ & \text { SNI }=9 \end{aligned}$ | Treatment: <br> $\mathrm{F}_{(1,12)}=5.745$ <br> Frequency bands: <br> $\mathrm{F}_{(1,12)}=1578.2$ <br> Interaction: <br> $F_{(5,60)}=1.75$ | Treatment: $p=0.034$ <br> Frequency bands: $p=2 \times 10^{-16}$ <br> Interaction: $\mathrm{p}=0.13$ | Treatment: $\mathrm{f}=0.69$ <br> Frequency bands: $\mathrm{f}=11.47$ <br> Interaction: <br> Cohen $\mathrm{f}=0.38$ |
| 2E | Mixed-model ANOVA | $\begin{aligned} & \text { Sham =5 } \\ & \text { SNI =9 } \end{aligned}$ | Treatment: <br> $\mathrm{F}_{(1,12)}=21.75$ <br> Frequency bands: <br> $\mathrm{F}_{(1,12)}=2386.18$ <br> Interaction: <br> $F_{(5,60)}=5.76$ | Treatment: $p=5.4 \times 10^{-4}$ <br> Frequency bands: $p=2 \times 10^{-16}$ <br> Interaction: $p=2.08 \times 10^{-4}$ | Treatment: $\mathrm{f}=1.35$ <br> Frequency bands: $f=14.1$ <br> Interaction: $f=0.69$ |
| 2E - Delta | Unpaired t-test | $\begin{aligned} & \hline \text { Sham }=5 \\ & \text { SNI }=9 \\ & \hline \end{aligned}$ | $\mathrm{t}_{(12)}=2.96$ | $\mathrm{p}=0.012$ | $\mathrm{d}=1.76$ |
| 2E - Theta | Unpaired t-test | $\begin{aligned} & \hline \text { Sham }=5 \\ & \text { SNI }=9 \\ & \hline \end{aligned}$ | $t_{(12)}=-3.54$ | $p=0.004$ | $d=-1.85$ |
| 2E-Sigma | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \\ & \hline \end{aligned}$ | $\mathrm{t}_{(12)}=-3.1$ | $p=0.009$ | $\mathrm{d}=-1.9$ |
| 2E-Beta | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | $\mathrm{t}_{(12)}=-3.3$ | $\mathrm{p}=0.006$ | $d=-1.95$ |
| 2E- <br> L.gamma | Unpaired t-test | $\begin{aligned} & \hline \text { Sham }=5 \\ & \text { SNI }=9 \\ & \hline \end{aligned}$ | $\mathrm{t}_{(12)}=-3.27$ | $\mathrm{p}=0.006$ | $d=-1.89$ |
| $\begin{aligned} & \text { 2E- } \\ & \text { H.gamma } \end{aligned}$ | Unpaired t-test | $\begin{aligned} & \text { Sham =5 } \\ & \text { SNI }=9 \end{aligned}$ | $\mathrm{t}_{(12)}=-2.07$ | $p=0.06$ | $d=-1.04$ |
| 2F - Delta | rank sum test | $\begin{aligned} & \text { Sham }=6 \\ & \text { SNI }=8 \end{aligned}$ | $\mathrm{W}=46$ | $\mathrm{p}=0.02$ | $d=1.38$ |
| 2F - Theta | rank sum test | $\begin{aligned} & \text { Sham = } 6 \\ & \text { SNI }=8 \end{aligned}$ | W = 3 | $\mathrm{p}=0.002$ | $d=-1.66$ |
| 2F-Sigma | rank sum test | $\begin{aligned} & \hline \text { Sham }=6 \\ & \text { SNI }=8 \\ & \hline \end{aligned}$ | $\mathrm{W}=13$ | $\mathrm{p}=0.11$ | $d=-0.96$ |
| 2F-Beta | rank sum test | $\begin{aligned} & \text { Sham }=6 \\ & \text { SNI }=8 \end{aligned}$ | $\mathrm{W}=13$ | $\mathrm{p}=0.11$ | $d=-1$ |
| $2 F-$ <br> L.gamma | rank sum test | $\begin{aligned} & \hline \text { Sham }=6 \\ & \text { SNI }=8 \end{aligned}$ | $\mathrm{W}=12$ | $p=0.08$ | $d=-0.99$ |
| $\begin{aligned} & 2 \mathrm{~F}- \\ & \text { H.gamma } \end{aligned}$ | rank sum test | $\begin{aligned} & \hline \text { Sham }=6 \\ & \text { SNI }=8 \\ & \hline \end{aligned}$ | $\mathrm{W}=11$ | $p=0.06$ | $d=-0.9$ |


| 2G | Mixed-model ANOVA | $\begin{aligned} & \hline \text { Sham }=6 \\ & \text { SNI }=8 \end{aligned}$ | Treatment: <br> $\mathrm{F}_{(1,13)}=3.59$ <br> Frequency bands: <br> $F_{(5,65)}=1145.13$ <br> Interaction: <br> $F_{(5,65)}=5.76$ | Treatment: $p=0.08$ <br> Frequency bands: $\mathrm{p}=2 \times 10^{-16}$ <br> Interaction: $p=0.008$ | Treatment: $\mathrm{f}=0.53$ <br> Frequency bands: $\mathrm{f}=9.39$ Interaction: $\mathrm{f}=0.51$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2G - Delta | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | $\mathrm{t}_{(13)}=3.13$ | $\mathrm{p}=0.007$ | $\mathrm{d}=1.6$ |
| 2G - Theta | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | $\mathrm{t}_{(13)}=-3.17$ | $\mathrm{p}=0.007$ | $d=-1.61$ |
| 2G - Sigma | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \\ & \hline \end{aligned}$ | $\mathrm{t}_{(13)}=-1.59$ | $p=0.13$ | $d=-0.84$ |
| 2G - Beta | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | $\mathrm{t}_{(13)}=-1.98$ | $p=0.06$ | $d=-1.02$ |
| 2G - <br> L.gamma | Unpaired t-test | $\begin{aligned} & \text { Sham =5 } \\ & \text { SNI }=9 \\ & \hline \end{aligned}$ | $\mathrm{t}_{(13)}=-1.6$ | $p=0.13$ | $d=-0.78$ |
| $\begin{aligned} & \hline \text { 2G - } \\ & \text { H.gamma } \end{aligned}$ | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | $\mathrm{t}_{(13)}=-1.4$ | $p=0.17$ | $\mathrm{d}=-0.75$ |
| 3A - <br> Lightphase <br> Wake | Mixed-model ANOVA | $\begin{aligned} & \text { Sham }=18 \\ & \text { SNI }=18 \end{aligned}$ | Treatment: <br> $F_{(1,34)}=0.004$ <br> Day: <br> $\mathrm{F}_{(1,34)}=7.22$ <br> Interaction: $\mathrm{F}_{(1,34)}=0.94$ | Treatment: $p=0.9$ <br> Day: $p=0.011$ <br> Interaction: $p=0.33$ | Treatment: $f=0.01$ <br> Day: $f=0.46$ <br> Interaction: $f=0.17$ |
| 3A - <br> lightphase NREMS | Mixed-model ANOVA | $\begin{aligned} & \text { Sham }=18 \\ & \text { SNI }=18 \end{aligned}$ | Treatment: <br> $F_{(1,34)}=0.048$ <br> Day: <br> $\mathrm{F}_{(1,34)}=12.2$ <br> Interaction: <br> $F_{(1,34)}=2.5$ | Treatment: $p=0.8$ <br> Day: $p=0.0013$ <br> Interaction: $p=0.12$ | Treatment: $f=0.04$ <br> Day: $f=0.6$ <br> Interaction: $f=0.27$ |
| 3A - <br> lightphase REMS | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 18 \\ & \text { SNI }=18 \end{aligned}$ | Treatment: <br> $\mathrm{F}_{(1,34)}=0.6$ <br> Day: <br> $\mathrm{F}_{(1,34)}=1.77$ <br> Interaction: <br> $F_{(1,34)}=1.46$ | Treatment: $p=0.44$ <br> Day: $p=0.19$ <br> Interaction: $p=0.23$ | Treatment: $f=0.13$ <br> Day: $f=0.23$ <br> Interaction: $f=0.21$ |
| 3A - <br> Darkphase <br> Wake | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 18 \\ & \text { SNI }=18 \end{aligned}$ | Treatment: <br> $\mathrm{F}_{(1,34)}=0.79$ <br> Day: <br> $\mathrm{F}_{(1,34)}=21.4$ <br> Interaction: <br> $F_{(1,34)}=0.72$ | Treatment: $p=0.79$ <br> Day: $p=5.2 \times 10^{-5}$ <br> Interaction: $p=0.72$ | Treatment: $f=0.04$ <br> Day: $f=0.79$ <br> Interaction: $f=0.06$ |
| 3A - <br> Darkphase <br> NREMS | Mixed-model ANOVA | $\begin{aligned} & \text { Sham =18 } \\ & \text { SNI }=18 \end{aligned}$ | Treatment: $\mathrm{F}_{(1,34)}=0.009$ Day: | Treatment: $p=0.92$ <br> Day: | Treatment: $f=0.02$ <br> Day: |


|  |  |  | $F_{(1,34)}=27.4$ <br> Interaction: $F_{(1,34)}=0.37$ | $p=8.5 \times 10^{-6}$ <br> Interaction: $p=0.54$ | $\mathrm{f}=0.9$ <br> Interaction: $f=0.11$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3A - <br> Darkphase REMS | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 18 \\ & \text { SNI }=18 \end{aligned}$ | Treatment: $F_{(1,34)}=1.56$ <br> Day: $F_{(1,34)}=0.11$ <br> Interaction: $F_{(1,34)}=0.62$ | Treatment: $p=0.22$ <br> Day: $p=0.73$ <br> Interaction: $p=0.43$ | Treatment: $f=0.21$ <br> Day: $f=0.06$ <br> Interaction: $f=0.14$ |
| 3B - <br> NREMS | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 18 \\ & \text { SNI }=18 \end{aligned}$ | Treatment: $F_{(1,34)}=1.3$ <br> Bout Length: $F_{(2,68)}=206.49$ <br> Interaction: $F_{(2,68)}=0.23$ | Treatment: $p=0.26$ <br> Bout Length: $p=2 \times 10^{-16}$ <br> Interaction: $p=0.79$ | Treatment: $f=0.2$ <br> Bout Length: $f=2.46$ <br> Interaction: $f=0.08$ |
| 3B-REMS | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 18 \\ & \text { SNI }=18 \end{aligned}$ | Treatment: $F_{(1,34)}=0.09$ <br> Bout Length: $F_{(2,68)}=208.83$ <br> Interaction: $F_{(2,68)}=0.48$ | Treatment: $p=0.76$ <br> Bout Length: $p=2 \times 10^{-16}$ <br> Interaction: $p=0.23$ | Treatment: $f=0.05$ <br> Bout Length: $f=2.48$ <br> Interaction: $f=0.21$ |
| 3C | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 18 \\ & \text { SNI }=18 \end{aligned}$ | Treatment: $F_{(1,34)}=0.66$ <br> Day: $F_{(1,34)}=0.006$ <br> Interaction: $F_{(1,34)}=0.021$ | Treatment: $p=0.41$ <br> Day: $p=0.94$ <br> Interaction: $p=0.88$ | Treatment: $f=0.14$ <br> Day: $f=0.01$ <br> Interaction: $f=0.02$ |
| 3D | Mixed-model ANOVA | $\begin{aligned} & \text { Sham =18 } \\ & \text { SNI = } 18 \end{aligned}$ | Treatment: $F_{(1,34)}=0.67$ <br> Day: $F_{(1,34)}=0.63$ <br> Interaction: $F_{(1,34)}=0.61$ | Treatment: $p=0.79$ <br> Day: $p=0.43$ <br> Interaction: $p=0.44$ | Treatment: $f=0.04$ <br> Day: $f=0.14$ <br> Interaction: $f=0.13$ |
| 3E | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 17 \\ & \text { SNI = } 14 \end{aligned}$ | Treatment: $F_{(1,29)}=0.5$ <br> Day: $F_{(1,29)}=9.8$ <br> State: $F_{(1,29)}=70.42$ <br> Interaction: $F_{(1,29)}=5.3$ | Treatment: $p=0.47$ <br> Day: $p=0.004$ <br> State: $p=3 \times 10^{-9}$ <br> Interaction: $p=0.027$ | Treatment: $f=0.13$ <br> Day: $f=0.58$ <br> State: $f=1.56$ <br> Interaction: $f=0.43$ |
| 3E | Paired t-test NREMS | Sham = 17 | $\mathrm{t}_{(16)}=-0.4$ | $p=0.69$ | $\mathrm{d}=-0.08$ |
| 3E | Paired t-test NREMS | SNI = 14 | $\mathrm{t}_{(13)}=-3.75$ | $p=0.002$ | $d=-0.95$ |
| 3E | Paired t-test REMS | Sham = 17 | $\mathrm{t}_{(16)}=-1.9$ | $p=0.07$ | $d=-0.36$ |


| 3E | Paired t-test NREMS | $\mathrm{SNI}=14$ | $t(13)=-2.47$ | $p=0.02$ | $d=-0.7$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3F | One sample ttest | Sham = 17 | $\mathrm{t}_{(16)}=0.97$ | $p=0.34$ | mean $=0.02$ |
| 3F | One sample ttest | $\mathrm{SNI}=17$ | $\mathrm{t}_{(16)}=2.96$ | $p=0.009$ | mean $=0.06$ |
| 3G | One sample ttest | Sham = 17 | $\mathrm{t}_{(16)}=0.46$ | $p=0.64$ | mean $=0.009$ |
| 3G | One sample ttest | $\mathrm{SNI}=17$ | $\mathrm{t}_{(16)}=2.62$ | $p=0.01$ | mean $=0.05$ |
| 4D | Mixed-model ANOVA | $\begin{aligned} & \text { Sham }=18 \\ & \text { SNI }=18 \end{aligned}$ | Treatment: $F_{(1,34)}=0.012$ <br> Day: $F_{(1,34)}=0.003$ <br> Interaction: $F_{(1,34)}=2.17$ | Treatment: $p=0.91$ <br> Day: $p=0.95$ <br> Interaction: $p=0.14$ | Treatment: $f=0.02$ <br> Day: $f=0.008$ <br> Interaction: $f=0.25$ |
| 4E | 95 Cl | $\begin{aligned} & \text { Sham = } 18 \\ & \text { SNI }=18 \end{aligned}$ | Sham: $152.2 \pm 1.3$ SNI: $150.4 \pm 1.3$ | / | / |
| 4F | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 18 \\ & \text { SNI }=18 \end{aligned}$ | Treatment: $F_{(1,34)}=0.046$ <br> State: $F_{(2,68)}=636.9$ <br> Interaction: $F_{(2,68)}=0.6$ | Treatment: $p=0.83$ <br> State: $p=2 \times 10^{-16}$ <br> Interaction: $p=0.54$ | Treatment: $f=0.04$ <br> State: $f=4.33$ <br> Interaction: $f=0.13$ |
| 4H | One sample ttest | Sham = 12 | $\mathrm{t}_{(16)}=17.2$ | $p=2.6 \times 10^{-9}$ | mean $=166.7$ |
| 4H | One sample ttest | $\mathrm{SNI}=12$ | $\mathrm{t}_{(16)}=16.5$ | $p=4.2 \times 10^{-9}$ | mean $=170.5$ |
| 4 H | Unpaired t-test | $\begin{aligned} & \text { Sham = } 12 \\ & \text { SNI }=12 \end{aligned}$ | $t_{(22)}=-0.64$ | $p=0.52$ | $d=-0.26$ |
| 4J | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 12 \\ & \text { SNI = } 12 \end{aligned}$ | Treatment: $F_{(1,22)}=0.9$ <br> SD: $F_{(1,22)}=58.52$ <br> Interaction: $F_{(1,22)}=0.13$ | Treatment: $p=0.35$ <br> SD: $p=1.3 \times 10^{-7}$ <br> Interaction: $p=0.72$ | Treatment: $f=0.2$ <br> SD: $f=1.63$ <br> Interaction: $f=0.08$ |
| 4L | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 12 \\ & \text { SNI = } 12 \end{aligned}$ | Treatment: $F_{(1,22)}=3.08$ <br> SD: $\mathrm{F}_{(1,22)}=1.45$ <br> Interaction: $F_{(1,22)}=5.7$ | Treatment: $p=0.09$ <br> SD: $p=0.24$ <br> Interaction: $p=0.025$ | Treatment: $f=0.37$ <br> SD: $f=0.26$ <br> Interaction: $f=0.51$ |
| 4L | Paired t-test | Sham = 12 | $\mathrm{t}_{(11)}=2.22$ | $p=0.048$ | $\mathrm{d}=0.92$ |
| 4L | Paired t-test | SNI = 12 | $\mathrm{t}_{(11)}=-1.01$ | $p=0.33$ | $\mathrm{d}=-0.29$ |
| 4L - <br> Control | Unpaired t-test | $\begin{aligned} & \hline \text { Sham }=12 \\ & \text { SNI }=12 \end{aligned}$ | $\mathrm{t}_{(22)}=0.15$ | $p=0.88$ | $\mathrm{d}=0.06$ |


| 4L - SD | Unpaired t-test | $\begin{aligned} & \text { Sham = } 12 \\ & \text { SNI = } 12 \end{aligned}$ | $\mathrm{t}_{(22)}=-2.3$ | $\mathrm{p}=0.03$ | $d=-0.95$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5C - Delta | Mixed-model ANOVA | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | Treatment: <br> $\mathrm{F}_{(1,12)}=7.16$ <br> Period: <br> $F_{(1,12)}=18.51$ <br> Interaction: <br> $F_{(1,12)}=18.31$ | Treatment: $\mathrm{p}=0.02$ <br> Period: $p=0.001$ <br> Interaction: $p=0.001$ | Treatment: $\mathrm{f}=0.77$ <br> Period: $f=1.24$ <br> Interaction: $\mathrm{f}=1.24$ |
| 5C - Delta | Paired t-test | Sham = 5 | $\mathrm{t}_{(4)}=-7.9$ | $\mathrm{p}=0.001$ | $d=-1.02$ |
| 5C - Delta | Paired t-test | SNI = 9 | $\mathrm{t}_{(8)}=-0.8$ | $\mathrm{p}=0.44$ | $d=-0.08$ |
| 5C - Delta Continuity | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | $\mathrm{t}_{(12)}=2.11$ | $\mathrm{p}=0.05$ | $\mathrm{d}=1.24$ |
| 5C - Delta Fragility | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \\ & \hline \end{aligned}$ | $\mathrm{t}_{(12)}=3.13$ | $p=0.008$ | $\mathrm{d}=1.84$ |
| 5D - Beta | Mixed-model ANOVA | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | Treatment: <br> $F_{(1,12)}=9.32$ <br> Period: <br> $F_{(1,12)}=270$ <br> Interaction: <br> $F_{(1,12)}=1$ | Treatment: $p=0.01$ <br> Period: $p=1.36 \times 10^{-9}$ <br> Interaction: $p=0.33$ | Treatment: $\mathrm{f}=0.88$ <br> Period: $f=4.74$ <br> Interaction: $f=0.29$ |
| 5E-Low gamma | Mixed-model ANOVA | $\begin{aligned} & \text { Sham =5 } \\ & \text { SNI }=9 \end{aligned}$ | Treatment: <br> $\mathrm{F}_{(1,12)}=11.49$ <br> Period: <br> $\mathrm{F}_{(1,12)}=398.3$ <br> Interaction: <br> $\mathrm{F}_{(1,12)}=0.75$ | Treatment: $p=0.005$ <br> Period: $p=1.43 \times 10^{-10}$ <br> Interaction: $p=0.4$ | Treatment: $f=0.98$ <br> Period: $f=5.76$ <br> Interaction: $f=0.25$ |
| 5F - High gamma | Mixed-model ANOVA | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | Treatment: <br> $F_{(1,12)}=3.31$ <br> Period: <br> $\mathrm{F}_{(1,12)}=94.3$ <br> Interaction: <br> $\mathrm{F}_{(1,12)}=5.83$ | Treatment: $p=0.09$ <br> Period: $p=4.89 \times 10^{-7}$ <br> Interaction: $p=0.03$ | Treatment: $f=0.53$ <br> Period: $f=2.8$ <br> Interaction: $\mathrm{f}=0.7$ |
| 5F - High gamma | Paired t-test | Sham = 5 | $\mathrm{t}_{(4)}=14.17$ | $\mathrm{p}=0.0001$ | $\mathrm{d}=0.75$ |
| 5F - High gamma | Paired t-test | SNI $=9$ | $\mathrm{t}_{(8)}=5.45$ | $p=0.0006$ | $\mathrm{d}=0.35$ |
| 5F - High gamma Continuity | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | $\mathrm{t}_{(12)}=-1.55$ | $\mathrm{p}=0.14$ | $d=-0.91$ |
| 5F - High gamma Fragility | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | $\mathrm{t}_{(12)}=-2.08$ | $\mathrm{p}=0.05$ | $d=-1.2$ |
| 5G - Delta | Mixed-model ANOVA | $\begin{aligned} & \text { Sham }=6 \\ & \text { SNI }=8 \end{aligned}$ | Treatment: <br> $\mathrm{F}_{(1,12)}=0.42$ <br> Period: $F_{(1,12)}=11.9$ | Treatment: $p=0.52$ <br> Period: $p=0.004$ | Treatment: $f=0.19$ <br> Period: $f=1$ |

$\left.\begin{array}{|l|l|l|l|l|l|}\hline & & & \text { Interaction: } \\ & & \mathrm{F}_{(1,12)}=0.009\end{array}\right)$

|  |  |  | Period: $F_{(1,12)}=44.5$ <br> Interaction: $F_{(1,12)}=0.9$ | Period: $p=2.3 \times 10^{-5}$ <br> Interaction: $p=0.35$ | Period: $f=1.93$ <br> Interaction: $f=0.28$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6H | Mixed-model ANOVA | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | Treatment: $F_{(1,12)}=1.75$ <br> Period: $F_{(1,12)}=11.19$ <br> Peak or no peak: $\begin{aligned} & \mathrm{F}_{(1,12)}=26.7 \\ & \text { peak } \times \text { period: } \\ & \mathrm{F}_{(1,12)}=10.67 \end{aligned}$ | Treatment: $p=0.21$ <br> Period: $p=0.005$ <br> Peak or no peak: $p=0.0002$ <br> peak x period: $p=0.006$ | Treatment: $f=0.38$ <br> Period: $f=0.97$ <br> Peak or no peak: $f=1.49$ <br> peak x period: $f=0.94$ |
| $6 \mathrm{H}-$ <br> Continuity | Paired t-test peak vs nopeak | Sham = 5 | $\mathrm{t}_{(4)}=-4.01$ | $p=0.015$ | $\mathrm{d}=-1.6$ |
| $6 \mathrm{H}-$ <br> Fragility | Paired t-test peak vs nopeak | Sham = 5 | $t_{(4)}=-4.61$ | $p=0.009$ | $d=-1.8$ |
| $6 \mathrm{H}-$ <br> Continuity | Paired t-test peak vs nopeak | SNI $=9$ | $\mathrm{t}_{(8)}=-2.8$ | $p=0.02$ | $d=-1.31$ |
| $6 \mathrm{H}-$ <br> Fragility | Paired t-test peak vs nopeak | SNI $=9$ | $t_{(8)}=-3.5$ | $p=0.007$ | $d=-1.91$ |
| 61 | Unpaired t-test | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | $\mathrm{t}_{(12)}=-2.6$ | $p=0.02$ | $d=-1.62$ |
| 8D | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } \\ & \text { SNI }=9 \end{aligned}$ | Treatment: $F_{(1,12)}=11.07$ <br> Period: $F_{(1,12)}=136.6$ <br> Interaction: $F_{(1,12)}=0.3$ | Treatment: $p=0.005$ <br> Period: $p=1.31 \times 10^{-8}$ <br> Interaction: $p=0.58$ | Treatment: $f=0.89$ <br> Period: $f=3.12$ <br> Interaction: $f=0.15$ |
| SUp 2B | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } \\ & \text { SNI }=9 \end{aligned}$ | Treatment: $F_{(1,12)}=14.9$ <br> MAs: $F_{(1,12)}=110.2$ <br> Interaction: $F_{(1,12)}=0.76$ | Treatment: $p=0.002$ <br> MAs: $p=2.1 \times 10^{-7}$ <br> Interaction: $p=0.39$ | Treatment: $f=1.12$ <br> MAs: $f=3.03$ <br> Interaction: $f=0.25$ |
| SUp 2C | Mixed-model ANOVA | $\begin{aligned} & \text { Sham }=5 \\ & \text { SNI }=9 \end{aligned}$ | Treatment: $F_{(1,12)}=0.24$ <br> MAs: $F_{(1,12)}=101.6$ <br> Interaction: $F_{(1,12)}=1.39$ | Treatment: $p=0.62$ <br> Period: $p=3.28 \times 10^{-7}$ <br> Interaction: $p=0.26$ | Treatment: $f=1.14$ <br> MAs: $f=2.91$ <br> Interaction: $f=0.34$ |


| SUp 2D - <br> Left | Wilcoxon ranksum | $\begin{array}{\|l} \hline \text { Sham }=4 \\ \text { SNI }=6 \end{array}$ | $\mathrm{W}=10$ | $\mathrm{p}=0.76$ | $\mathrm{d}=-0.006$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SUp 2D - <br> Middle | Wilcoxon signed-rank MAs | $\begin{array}{\|l} \hline \text { Sham }=4 \\ \text { SNI }=6 \end{array}$ | $V=10$ | $\mathrm{p}=0.12$ | $\mathrm{d}=1.55$ |
| SUp 2D - <br> Middle | Wilcoxon signed-rank NREMS | $\begin{array}{\|l} \hline \text { Sham }=4 \\ \text { SNI }=6 \end{array}$ | $V=21$ | $\mathrm{p}=0.03$ | $\mathrm{d}=1.86$ |
| SUp 2D Right | Mixed-model ANOVA | $\begin{array}{\|l} \hline \text { Sham }=5 \\ \text { SNI }=9 \end{array}$ | Treatment: <br> $\mathrm{F}_{(1,8)}=2.06$ <br> MAs: <br> $F_{(1,8)}=39.12$ <br> Interaction: <br> $\mathrm{F}_{(1,8)}=1.39$ | Treatment: $\mathrm{p}=0.18$ <br> MAs: <br> $\mathrm{p}=0.0002$ <br> Interaction: $p=0.36$ | Treatment: $f=0.51$ <br> MAs: $f=2.21$ <br> Interaction: $f=0.34$ |
| SUp 2E - Left | Unpaired t-test | $\begin{array}{\|l} \hline \text { Sham }=10 \\ \text { SNI }=12 \end{array}$ | $\mathrm{t}_{(21)}=-0.5$ | $\mathrm{p}=0.62$ | $\mathrm{d}=0.004$ |
| SUp 2E - <br> Middle | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = 10 } \\ & \text { SNI = 12 } \end{aligned}$ | Treatment: <br> $\mathrm{F}_{(1,8)}=0.8$ <br> MAs: <br> $F_{(1,8)}=446.8$ <br> Interaction: <br> $\mathrm{F}_{(1,8)}=1.6$ | Treatment: $p=0.37$ <br> MAs: $\mathrm{p}=1.23 \times 10^{-15}$ <br> Interaction: $p=0.2$ | Treatment: $\mathrm{f}=0.2$ <br> MAs: $f=4.61$ <br> Interaction: $f=0.28$ |
| SUp 2ERight | Mixed-model ANOVA | $\begin{aligned} & \text { Sham = } 10 \\ & \text { SNI = } 12 \end{aligned}$ | Treatment: <br> $\mathrm{F}_{(1,8)}=0.29$ <br> MAs: <br> $F_{(1,8)}=174.9$ <br> Interaction: <br> $F_{(1,8)}=0.03$ | Treatment: $p=0.59$ <br> MAs: $p=1.18 \times 10^{-11}$ <br> Interaction: $p=0.85$ | Treatment: $\mathrm{f}=0.12$ <br> MAs: $f=2.89$ <br> Interaction: $f=0.04$ |
| SUp 2F - <br> Left | Unpaired t-test | $\begin{array}{\|l} \hline \text { Sham }=6 \\ \text { SNI }=8 \\ \hline \end{array}$ | $\mathrm{t}_{(12)}=-0.23$ | $\mathrm{p}=0.82$ | $d=0.003$ |
| SUp 2F - <br> Middle | Mixed-model ANOVA | $\begin{array}{\|l} \hline \text { Sham }=6 \\ \text { SNI }=8 \end{array}$ | Treatment: <br> $\mathrm{F}_{(1,12)}=0.89$ <br> MAs: <br> $\mathrm{F}_{(1,12)}=63.9$ <br> Interaction: $F_{(1,12)}=0.54$ | Treatment: $\mathrm{p}=0.36$ <br> MAs: $p=3.77 \times 10^{-6}$ <br> Interaction: $p=0.47$ | Treatment: $\mathrm{f}=0.27$ <br> MAs: $f=2.31$ <br> Interaction: $f=0.21$ |
| SUp 2F Right | Mixed-model ANOVA | $\begin{array}{\|l} \hline \text { Sham }=6 \\ \text { SNI }=8 \end{array}$ | Treatment: <br> $\mathrm{F}_{(1,12)}=1.8$ <br> MAs: <br> $F_{(1,12)}=50.26$ <br> Interaction: <br> $\mathrm{F}_{(1,12)}=1.7$ | Treatment: $\mathrm{p}=0.19$ <br> Period: $p=1.27 \times 10^{-5}$ <br> Interaction: $p=0.21$ | Treatment: $\mathrm{f}=0.39$ <br> MAs: $f=2.05$ <br> Interaction: $f=0.38$ |

