# Supplementary Materials

Table S1: Results of general linear mixed effects model on the logarithmic firing rate log(MFR): differences of Least Squares Means (the marginal means are estimated over a balanced population) calculated for the *Stim\*Area\*Time* effect. Significant p-values are colored: p-value .01-.05 (weak evidence) yellow, p-value <.01 (very strong evidence) red.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Basal0 | Basal1 | Basal2 | Basal3 |
| ADS | RS | CTRL | ADS | RS | CTRL | ADS | RS | CTRL | ADS | RS | CTRL |
| BF | FL | BF | FL | FL | BF | FL | BF | FL | FL | BF | FL | BF | FL | FL | BF | FL | BF | FL | FL |
| Basal0 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CTRL | FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basal1 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CTRL | FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basal2 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CTRL | FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basal3 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CTRL | FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table S2: Results of the general linear mixed effects model on the LvR: differences of Least Squares Means (the marginal means are estimated over a balanced population) calculated for the *Stim\*Area\*Time* effect. Significant p-values are colored: p-value .01-.05 (weak evidence) yellow, p-value <.01 (very strong evidence) red.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Basal0 | Basal1 | Basal2 | Basal3 |
| ADS | RS | CTRL | ADS | RS | CTRL | ADS | RS | CTRL | ADS | RS | CTRL |
| BF | FL | BF | FL | FL | BF | FL | BF | FL | FL | BF | FL | BF | FL | FL | BF | FL | BF | FL | FL |
| Basal0 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CTRL | FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basal1 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CTRL | FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basal2 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CTRL | FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basal3 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CTRL | FL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table S3: Results of the general linear mixed effects model on the PSTH: differences of Least Squares Means (the marginal means are estimated over a balanced population) calculated for the *Stim\*Area\*Time* effect. Significant p-values are colored: p-value .01-.05 (weak evidence) yellow, p-value <.01 (very strong evidence) red.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Stim1 | Stim2 | Stim3 |
| ADS | RS | ADS | RS | ADS | RS |
| BF | FL | BF | FL | BF | FL | BF | FL | BF | FL | BF | FL |
| Stim1 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |
| Stim2 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |
| Stim3 | ADS | BF |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |
| RS | BF |  |  |  |  |  |  |  |  |  |  |  |  |
| FL |  |  |  |  |  |  |  |  |  |  |  |  |