**Supplementary table 1**

Number of Iba1+ cells and percentage of Iba1+/ED1+ cells in sub-regions of the hippocampus at different time points after lipopolysaccharide injection.

|  |  |
| --- | --- |
|  Ipsilateral HPC |  Contralateral HPC |
|  |  **CA1** |  **CA3** | **ML** |  **Hilus** | **CA1** |  **CA3** |  **ML** |  **Hilus** |
|  |  **Saline** | **LPS** | **Saline** | **LPS** |  **Saline** | **LPS** |  **Saline** | **LPS** |  **Saline** | **LPS** |  **Saline** | **LPS** |  **Saline** | **LPS** |  **Saline** | **LPS** |
| 6h |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iba1+ | 6.33±0.91 6.21±0.58 | 4.6±0.42 5.0±0.35 | 39.5±3.23 44.7±2.72 | 43.4±2.88 54.6±3.42\* | 5.0±0.51 6.0±0.53 | 4.23±0.46 5.27±0.36 | 41.2±2.68 41.5±2.77 | 45.5±2.45 52.7±2.81 |
| % Iba1+/ED1+ |  0±0 8.76±3.46\* | 8.33±3.84 13.2±5.18 | 1.74±0.71 4.06±1.14 | 3.65±1.01 7.65± 0.90\* | 6.60± 3.64 2.08± 2.08 | 3.43±2.33 10.5±6.26 | 1.20±0.33 4.66±1.22\* | 2.83±1.01 6.29±1.40 |
| 24h |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iba1+ | 5.7± 0.58 7.69± 1.12 | 5.91±0.88 8.22±1.55 | 42.9±2.74 42.7±3.27 | 43.7± 2.08 53.6± 5.07 | 5.92±0.67 7.00±0.62 | 4.17±0.47 5.33±0.57 | 38.2±2.31 45.4±3.50 | 41.7±2.61 44.7±2.05 |
| %Iba1+/ED1+ | 8.04±3.80 3.11±2.18 | 41.2±17.6 70.9±24.6 | 7.45±2.63 20.7±6.70 | 15.2 ±4.57 20.8 ±6.72 | 18.2±8.30 7.48±2.17 | 30.2±14.1 7.68±3.45 | 6.95±2.41 19.8±4.33\* | 12.6±6.85 20.6±4.49 |
| 1w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iba1+ | 2.8±0.31 3.33±0.35 | 3.5±0.55 6.79±0.89\* | 34.0±2.33 38.5±2.62 | 35.6±2.36 40.3±3.31 | 3.43±0.80 3.6±0.52 | 3.71±0.51 3.13±0.34 | 29.6±1.47 31.5±3.35 | 36.5±2.24 33.8±2.90 |
| % Iba1+/ED1+ | 17.1±7.71 23.3±5.49 | 47.4±14.8 49.2±7.73 | 9.63±1.80 10.8±1.52 | 10.4±1.92 14.3±2.82 | 8.93±7.11 11.5±6.37 | 15.5±5.08 29.8±9.91 | 4.65±1.34 7.97±1.75 | 5.42±1.15 11.3±2.76 |
| 4w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iba1+ | 5.27±0.67 6.36±0.77 | 6.1±3.39 5.5±0.66 | 30.0±2.11 38.1±2.35\* | 33.0±2.94 48.0±2.13\* | 4.75±0.51 5.08±0.40 | 3.58±1.99 5.08±0.64 | 28.5±2.56 34.1±2.15 | 36.9±3.01 44.2±3.27 |
| %Iba1+/ED1+ | 8.64±5.00 28.1±8.19 | 24.6±10.1 61.0±9.50\* | 5.27±1.44 8.07±1.25 | 15.2±3.19 25.2±2.80\* | 13.6±4.50 32.7±6.25\* | 22.9±11.3 55.9±10.5\* | 2.73±1.49 5.39±1.13 | 13.9±2.18 23.4±3.73\* |

**S1 Table. Microglia activation in hippocampus following LPS injection.** Number of Iba1+ cells and percentage of Iba1+/phagocytic marker ED1+ cells in subregions of the ipsilateral and contralateral hippocampus at different time points after intracerebral LPS injection. Data are presented as mean±standard error of mean; Saline; n = 5, LPS; n= 5. \*p < 0.05, unpaired t test.