**S2 Table**: Spatial filed configuration (degrees) for all cells in the probe session of T-maze task.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| cell # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Rat 1 | 61.9 | 64.8 | 42.9 | 0.0 | 24.0 | 56.1 | 57.3 | 12.4 | 81.4 |
| Rat 2 | 82.1 | 69.1 | 53.4 | 90.0 | 68.5 | 90.0 | 90.0 | 90.0 | 18.0 |
| Rat 3 | 54.0 | 33.8 | 55.3 | 4.5 | 30.3 | 59.1 | 67.1 | 53.5 | 42.2 |
| Rat 4 | 74.4 | 32.9 | 2.3 | 63.6 | 75.7 |  |  |  |  |
| Rat 5 | 68.1 | 37.3 | 0.0 | 0.0 | 58.9 | 52.9 | 21.6 | 21.7 | 67.1 |
| Rat 6 | 90.0 | 28.5 | 0.0 | 30.4 |  |  |  |  |  |
| Rat 7 | 85.0 | 49.5 | 53.5 | 90.0 | 70.7 | 43.0 | 59.7 | 63.9 | 90.0 |
| Rat 8 | 55.8 | 49.9 | 90.0 | 0.0 | 54.8 | 90.0 | 59.6 | 36.7 | 15.7 |
| Rat 9 | 77.4 | 36.0 | 32.9 | 25.4 | 0.3 | 90.0 | 81.6 | 82.8 | 90.0 |
| Rat 10 | 16.1 | 19.5 | 90.0 | 90.0 | 90.0 | 90.0 | 8.3 | 90.0 | 11.5 |
| Rat 11 | 36.9 | 60.9 | 89.8 | 90.0 | 9.7 | 62.8 | 90.0 | 38.8 | 81.9 |
| Rat 12 | 0.0 | 38.3 | 0.0 | 0.0 | 57.0 | 38.6 | 47.0 | 90.0 | 0.1 |
| Rat 13 | 22.1 | 20.5 | 28.4 | 72.2 | 27.6 | 25.3 | 13.9 | 83.0 | 0.0 |
| cell # | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| Rat 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Rat 2 | 3.8 | 37.6 | 0.0 | 0.0 | 6.0 |  |  |  |  |  |  |  |
| Rat 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Rat 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| Rat 5 | 90.0 | 63.0 | 27.7 | 15.8 | 76.3 | 34.7 | 10.1 |  |  |  |  |  |
| Rat 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| Rat 7 | 0.0 | 29.5 |  |  |  |  |  |  |  |  |  |  |
| Rat 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| Rat 9 | 68.9 | 90.0 | 29.6 | 57.8 | 90.0 | 23.1 | 1.3 | 0.0 | 0.0 | 34.5 | 90.0 | 4.2 |
| Rat 10 | 20.4 | 0.0 | 31.6 | 0.0 | 21.8 | 47.4 | 33.2 |  |  |  |  |  |
| Rat 11 | 24.1 | 76.3 | 0.0 | 69.5 | 59.0 |  |  |  |  |  |  |  |
| Rat 12 | 0.0 | 2.5 | 77.7 | 90.0 | 27.1 | 0.0 | 24.9 | 90.0 | 17.2 | 18.3 | 89.0 | 0.0 |
| Rat 13 | 31.6 | 81.4 | 90.0 | 0.0 | 66.1 | 16.6 | 90.0 | 90.0 | 25.0 | 77.2 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| cell # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Rat 14 | 0.0 | 2.2 | 12.0 | 89.8 | 55.2 | 58.1 | 19.3 | 25.6 | 22.5 |
| Rat 15 | 0.0 | 57.4 | 71.9 | 23.7 | 0.0 | 37.0 | 4.0 | 0.0 | 67.6 |
| Rat 16 | 16.0 | 23.2 | 0.0 | 90.0 | 87.0 | 55.6 | 89.3 | 64.8 | 0.0 |
| Rat 17 | 85.5 | 60.1 | 14.4 | 0.0 | 37.4 |  |  |  |  |
| Rat 18 | 90.0 | 90.0 | 74.0 | 0.0 | 0.0 | 90.0 | 0.0 | 64.6 | 90.0 |
| Rat 19 | 0.0 | 4.9 | 0.0 | 64.5 | 90.0 | 90.0 | 0.0 | 0.0 | 15.0 |
| Rat 20 | 90.0 | 57.1 | 26.4 | 37.5 | 89.5 |  |  |  |  |
| cell # | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| Rat 14 | 33.8 | 28.3 |  |  |  |  | 33.8 | 28.3 |  |  |  |  |
| Rat 15 | 90.0 | 36.9 | 88.8 |  |  |  | 90.0 | 36.9 | 88.8 |  |  |  |
| Rat 16 | 90.0 | 90.0 | 74.4 | 55.7 |  |  | 90.0 | 90.0 | 74.4 | 55.7 |  |  |
| Rat 17 |  |  |  |  |  |  |  |  |  |  |  | 90.0 |
| Rat 18 | 63.7 | 90.0 | 0.0 | 90.0 | 55.0 | 90.0 | 63.7 | 90.0 | 0.0 | 90.0 | 55.0 |  |
| Rat 19 | 0.2 | 90.0 | 78.6 | 15.5 |  |  | 0.2 | 90.0 | 78.6 | 15.5 |  |  |
| Rat 20 |  |  |  |  |  |  |  |  |  |  |  |  |