**Additional File 2:**

**Table S2.** Electrophysiological properties of pyramidal neurons in cortical layer II/III and hippocampal CA1 in all experimental groups.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Group | RMP (mV) | Cm(pF) | Rin(MΩ) | Rheobase(pA) | APR(msec) | IA1(pA) | ID1(pA) |
| Layer II/III | Naive OCHSCs | -65.28 ± 6.87(n = 11) | 70.48 ± 13.54(n = 11) | 140.35 ± 21.37(n = 11) | 301.48 ± 119.33(n = 11) | 2.07 ± 0.34(n = 11) | 897.53 ± 87.52(n = 11) | 256.25 ± 15.01(n = 11) |
| Control PBMCs | -68.52 ± 6.15(n =11) | 70.40 ± 11.78(n = 11) | 144.50 ± 30.92(n = 11) | 282.36 ± 68.85(n = 11) | 2.18 ± 0.38(n = 11) | 972.12 ± 129.91(n = 11) | 226.92 ± 10.84(n = 11) |
| LPS-PBMCs | -65.25 ± 5.16(n = 10) | 73.04 ± 13.25(n = 10) | 174.20 ± 24.87(n = 10) | 268.21 ± 70.90(n = 10) | 2.11 ± 0.43(n = 10) | 791.12 ± 116.90(n = 10) | 206.64 ± 24.01(n = 10) |
| IR-PBMCs | -66.64 ± 6.75(n = 10) | 75.85 ± 7.55(n = 10) | 180.65 ± 26.00(n = 10) | 175.20 ± 69.12(n = 10) | 2.02 ± 0.45(n = 10) | 515.81 ± 58.65(n = 10) | 175.03 ± 23.88(n = 10) |
| CA1 | Naive OCHSCs | -59.41 ± 3.47(n = 23) | 100.1 ± 20.53(n = 23) | 101.87 ± 9.07(n = 23) | 261.77 ± 80.86(n = 23) | 1.31 ± 0.16(n = 15) | 928.82 ± 83.55(n = 23) | 253.39 ± 21.49(n = 23) |
| Control PBMCs | -59.73 ± 1.92(n = 21) | 100.4 ± 28.84(n = 21) | 101.87 ± 11.23(n = 21) | 261.01 ± 46.13(n = 21) | 1.29 ± 0.20(n = 15) | 930.35 ± 145.81(n = 21) | 229.38 ± 20.04(n = 21) |
| LPS-PBMCs | -58.85 ± 3.00(n = 19) | 90.69 ± 23.93(n = 19) | 125.18 ± 11.60(n = 19) | 194.92 ± 61.14(n = 19) | 1.53 ± 0.20(n = 15) | 648.57 ± 111.67(n = 19) | 161.32 ± 15.81(n = 19) |
| IR-PBMCs | -59.01 ± 2.49(n = 20) | 95.03 ± 18.44(n = 20) | 121.46 ± 11.41(n = 20) | 191.96 ± 48.96(n = 20) | 1.52 ± 0.20(n = 15) | 617.99 ± 52.41(n = 20) | 155.66 ± 15.74(n = 20) |
| mCTL-PBMCs | -59.54 ± 2.72(n = 11) |  98.17 ± 32.74 (n = 11) | 109.30 ± 12.98(n = 11) | 212.63 ± 46.88(n = 11) | 1.31 ± 0.14(n = 11) | 1178.43 ± 119.61(n = 6) | 254.20 ± 27.69(n = 8) |
| mLPS-PBMCs | -58.38 ± 3.31(n = 11) | 101.47 ± 17.96(n =11) | 117.78 ± 15.50(n = 11) | 192.86 ± 36.64(n = 11) | 1.36 ± 0.17(n = 11) | 1100.72 ± 45.87(n = 5) | 280.10 ± 20.16(n = 8) |
| mIR-PBMCs | -60.16 ± 4.18(n = 10) | 108.63 ± 35.22(n = 10) | 127.51 ± 9.64(n = 10) | 155.55 ± 50.95(n = 10) | 1.52 ± 0.20(n = 10) | 855.10 ± 66.09(n = 5) | 160.48 ± 25.92(n = 7) |
| DMSO-LPS-PBMCs | -58.16 ± 2.40 (n = 9) | 82.15 ± 21.95(n = 9) | 132.44 ± 20.12(n = 9) | 173.29 ± 37.27(n = 9) | 1.56 ± 0.20(n = 9) | 747.64 ± 64.58(n = 5) | 171.61 ± 11.41(n = 7) |
| VX765-LPS-PBMCs | -58.29 ± 2.08(n = 9) | 77.41 ± 14.66(n = 9) | 104.20 ± 19.07(n = 9) | 268.52 ± 79.76(n = 9) | 1.32 ± 0.16(n = 9) | 1080.72 ± 52.84(n = 5) | 266.99 ± 43.55(n = 8) |
| VX765-IR-PBMCs | -60.28 ± 3.24 (n = 9) | 81.60 ± 16.26(n = 9) | 110.44 ± 13.91(n = 9) | 281.13 ± 98.83(n = 9) | 1.31 ± 0.17(n = 9) | 983.24 ± 97.73(n = 5) | 236.95 ± 34.51(n = 8) |

APR: duration of action potential repolarization; Cm: cell membrane capacitance; IA: A-type fast activating, fast inactivating current; ID: D-type fast activating, slowly inactivating current; Rin: input resistance; RMP: resting membrane potential

n: number of neurons analyzed

1 current response at maximum voltage input, i.e. +20 mV.