

Supplementary materials

2. Results

2.1. Light-dark box test

No significant changes (Figure 1).

2.2. Social interaction test

- the time of aggressive behaviours: 19.00 ± 5.01 control vs. 2.00 ± 1.36 MIA, $F_{(1,14)} = 13.52$, $p = 0.0055$ (Table 1)
- the number of aggressive behaviours: 4.50 ± 1.00 control vs. 0.50 ± 0.38 MIA, $F_{(1,14)} = 7.00$, $p = 0.0022$ (Table 1)

2.3. Forced swim test

- the immobility time: 199.25 ± 9.41 control vs. 243.50 ± 13.88 MIA, $F_{(1,14)} = 2.18$, $p = 0.0195$ (Figure 2)
- the swimming time: 100.75 ± 9.41 control vs. 56.50 ± 13.88 MIA, $F_{(1,14)} = 2.18$, $p = 0.0195$ (Figure 2)
- the climbing time: 90.13 ± 9.81 control vs. 41.38 ± 8.77 MIA, $F_{(1,14)} = 1.25$, $p = 0.0024$ (Figure 2)

2.4. Exploratory activity

- the total distance travelled: 2243.25 ± 125.70 control vs. 2772.94 ± 190.65 MIA, $F_{(1,25)} = 2.48$, $p = 0.0313$ (Figure 3, inset)
- the exploration in the fourth interval of the experiment: 204.88 ± 27.90 control vs. 306.07 ± 34.12 MIA, $F_{(1,25)} = 1.61$, $p = 0.0317$ (Figure 3)

2.5. Prepulse inhibition of the acoustic startle response

- PPI, the 70 dB prepulse, the animals at PND100: 46.19 ± 4.37 control vs. 64.73 ± 3.39 MIA_{PPI-high}, $F_{(1,37)} = 2.97$, $p = 0.0063$ (Figure 4A)
- PPI, the 75 dB prepulse, the animals at PND100: 69.90 ± 2.71 control vs. 57.43 ± 2.55 MIA_{PPI-low}, $F_{(1,35)} = 2.35$, $p = 0.0065$; 69.90 ± 2.71 control vs. 79.73 ± 2.30 MIA_{PPI-high}, $F_{(1,37)} = 2.47$, $p = 0.0193$ (Figure 4A)
- PPI, the 80 dB prepulse, the animals at PND100: 70.12 ± 2.81 control vs. 55.60 ± 2.29 MIA_{PPI-low}, $F_{(1,35)} = 3.13$, $p = 0.0021$; 70.12 ± 2.81 control vs. 79.49 ± 2.70 MIA_{PPI-high}, $F_{(1,37)} = 1.94$, $p = 0.0347$ (Figure 4A)
- PPI, the 80 dB prepulse, the animals at PND120: 61.82 ± 6.44 MIA_{PPI-low} + vehicle vs. 77.48 ± 4.84 MIA_{PPI-high} + vehicle, $F_{(2,40)} = 3.20$, $p = 0.0335$ (Figure 4B)

2.6. mRNA expression of microglial markers in the frontal cortices and hippocampi of adult male offspring

- Frontal cortex, *Cd40*: 1.00 ± 0.15 control + vehicle vs. 2.39 ± 0.47 control + Poly I:C, $F_{(5,31)} = 7.07$, $p = 0.0151$; 1.08 ± 0.17 MIA_{PPI-low} + vehicle vs. 3.38 ± 0.40 MIA_{PPI-low} + Poly I:C, $F_{(5,31)} = 7.07$, $p = 0.0010$; 0.88 ± 0.07 MIA_{PPI-high} + vehicle vs. 3.26 ± 0.97 MIA_{PPI-high} + Poly I:C, $F_{(5,31)} = 7.07$, $p = 0.0007$ (Figure 5A)

- Frontal cortex, *iNos*: 1.01 ± 0.08 control + vehicle vs. 6.00 ± 1.47 control + Poly I:C, $F_{(5,24)} = 5.86$, $p = 0.0130$; 0.53 ± 0.16 MIA_{PPI-low} + vehicle vs. 7.45 ± 0.84 MIA_{PPI-low} + Poly I:C, $F_{(5,24)} = 5.86$, $p = 0.0005$; 1.14 ± 0.61 MIA_{PPI-high} + vehicle vs. 6.21 ± 1.85 MIA_{PPI-high} + Poly I:C, $F_{(5,24)} = 5.86$, $p = 0.0227$ (Figure 5A)
- Frontal cortex, *Il-1 β* : 0.95 ± 0.15 MIA_{PPI-high} + vehicle vs. 2.74 ± 1.17 MIA_{PPI-high} + Poly I:C, $F_{(5,32)} = 2.73$, $p = 0.0086$; 1.20 ± 0.25 control + Poly I:C vs. 2.74 ± 1.17 MIA_{PPI-high} + Poly I:C, $F_{(2,32)} = 3.26$, $p = 0.0177$ (Figure 5A)
- Frontal cortex, *Tnf- α* : 0.84 ± 0.13 MIA_{PPI-low} + vehicle vs. 3.90 ± 0.97 MIA_{PPI-low} + Poly I:C, $F_{(5,32)} = 4.73$, $p = 0.0007$; 0.99 ± 0.15 MIA_{PPI-high} + vehicle vs. 2.87 ± 1.12 MIA_{PPI-high} + Poly I:C, $F_{(5,32)} = 4.73$, $p = 0.0353$; 2.13 ± 0.44 control + Poly I:C vs. 2.87 ± 1.12 MIA_{PPI-high} + Poly I:C, $F_{(2,32)} = 2.56$, $p = 0.0309$ (Figure 5A)
- Frontal cortex, *Il-6*: 0.98 ± 0.14 control + vehicle vs. 2.08 ± 0.16 control + Poly I:C, $F_{(5,31)} = 6.83$, $p = 0.0054$; 1.29 ± 0.31 MIA_{PPI-low} + vehicle vs. 2.23 ± 0.17 MIA_{PPI-low} + Poly I:C, $F_{(5,31)} = 6.83$, $p = 0.0351$; 1.27 ± 0.17 MIA_{PPI-high} + vehicle vs. 3.00 ± 0.66 MIA_{PPI-high} + Poly I:C, $F_{(5,31)} = 6.83$, $p = 0.0003$; 2.08 ± 0.16 control + Poly I:C vs. 3.00 ± 0.66 MIA_{PPI-high} + Poly I:C, $F_{(2,31)} = 2.68$, $p = 0.0331$ (Figure 5A)
- Hippocampus, *MhcII*: 1.06 ± 0.11 control + vehicle vs. 0.71 ± 0.09 MIA_{PPI-high} + vehicle, $F_{(5,36)} = 3.13$, $p = 0.0142$ (Figure 5B)
- Hippocampus, *Cd40*: 1.02 ± 0.08 control + vehicle vs. 3.75 ± 0.82 control + Poly I:C, $F_{(5,37)} = 11.52$, $p = 0.0001$; 0.91 ± 0.05 MIA_{PPI-low} + vehicle vs. 5.10 ± 0.70 MIA_{PPI-low} + Poly I:C, $F_{(5,37)} = 11.52$, $p = 0.0001$; 0.84 ± 0.09 MIA_{PPI-high} + vehicle vs. 3.74 ± 0.90 MIA_{PPI-high} + Poly I:C, $F_{(5,37)} = 11.52$, $p = 0.0001$ (Figure 5B)
- Hippocampus, *iNos*: 1.01 ± 0.28 control + vehicle vs. 6.42 ± 1.84 control + Poly I:C, $F_{(5,25)} = 6.24$, $p = 0.0005$; 0.32 ± 0.06 MIA_{PPI-low} + vehicle vs. 5.21 ± 0.95 MIA_{PPI-low} + Poly I:C, $F_{(5,25)} = 6.24$, $p = 0.0047$; 1.09 ± 0.48 MIA_{PPI-high} + vehicle vs. 4.17 ± 0.73 MIA_{PPI-high} + Poly I:C, $F_{(5,25)} = 6.24$, $p = 0.0478$ (Figure 5B)
- Hippocampus, *Il-1 β* : 1.07 ± 0.16 control + vehicle vs. 2.65 ± 0.80 control + Poly I:C, $F_{(5,37)} = 5.89$, $p = 0.0107$; 1.08 ± 0.09 MIA_{PPI-low} + vehicle vs. 3.07 ± 0.67 MIA_{PPI-low} + Poly I:C, $F_{(5,37)} = 5.89$, $p = 0.0033$; 0.82 ± 0.11 MIA_{PPI-high} + vehicle vs. 2.38 ± 0.52 MIA_{PPI-high} + Poly I:C, $F_{(5,37)} = 5.89$, $p = 0.0024$ (Figure 5B)
- Hippocampus, *Tnf- α* : 1.05 ± 0.11 control + vehicle vs. 2.48 ± 0.44 control + Poly I:C, $F_{(5,37)} = 7.56$, $p = 0.0008$; 1.35 ± 0.19 MIA_{PPI-low} + vehicle vs. 3.69 ± 0.45 MIA_{PPI-low} + Poly I:C, $F_{(5,37)} = 7.56$, $p = 0.0026$; 0.86 ± 0.12 MIA_{PPI-high} + vehicle vs. 2.84 ± 0.83 MIA_{PPI-high} + Poly I:C, $F_{(5,37)} = 7.56$, $p = 0.0035$ (Figure 5B)
- Hippocampus, *Il-6*: 1.05 ± 0.12 control + vehicle vs. 1.75 ± 0.23 control + Poly I:C, $F_{(5,37)} = 7.93$, $p = 0.0063$; 0.73 ± 0.11 MIA_{PPI-low} + vehicle vs. 2.79 ± 0.47 MIA_{PPI-low} + Poly I:C, $F_{(5,37)} = 7.93$, $p = 0.0002$; 0.81 ± 0.09 MIA_{PPI-high} + vehicle vs. 1.98 ± 0.12 MIA_{PPI-high} + Poly I:C, $F_{(5,37)} = 7.93$, $p = 0.0005$ (Figure 5B)
- Frontal cortex, *Arg1*: 0.98 ± 0.11 control + Poly I:C vs. 0.73 ± 0.06 MIA_{PPI-low} + Poly I:C, $F_{(2,34)} = 2.47$, $p = 0.0491$ (Figure 6A)
- Frontal cortex, *Igf-1*: 1.02 ± 0.07 control + vehicle vs. 1.30 ± 0.14 MIA_{PPI-high} + vehicle, $F_{(5,34)} = 3.47$, $p = 0.0319$; 1.23 ± 0.12 MIA_{PPI-low} + vehicle vs. 0.91 ± 0.07 MIA_{PPI-low} + Poly I:C, $F_{(5,34)} = 3.47$, $p = 0.0245$; 1.30 ± 0.14 MIA_{PPI-high} + vehicle vs. 0.81 ± 0.06 MIA_{PPI-high} + Poly I:C, $F_{(5,34)} = 3.47$, $p = 0.0018$ (Figure 6A)
- Hippocampus, *Arg1*: 1.23 ± 0.13 MIA_{PPI-low} + vehicle vs. 0.88 ± 0.06 MIA_{PPI-high} + vehicle, $F_{(2,37)} = 2.84$, $p = 0.0232$ (Figure 6B)

2.7. mRNA expression of *Cx3cl1*, *Cx3cr1*, *Cd200* and *Cd200r* in the frontal cortices and hippocampi of adult male offspring

- Frontal cortex, *Cx3cl1*: 1.11 ± 0.14 control + Poly I:C vs. 0.74 ± 0.05 MIA_{PPI-low} + Poly I:C, $F_{(2,33)} = 2.57$, $p = 0.0304$ (Table 3)
- Frontal cortex, *Cx3cr1*: 1.01 ± 0.17 MIA_{PPI-high} + vehicle vs. 0.67 ± 0.06 MIA_{PPI-high} + Poly I:C, $F_{(5,34)} = 1.98$, $p = 0.0483$ (Table 3)
- Hippocampus, *Cx3cl1*: 1.03 ± 0.08 control + vehicle vs. 0.70 ± 0.04 MIA_{PPI-high} + vehicle, $F_{(5,37)} = 6.05$, $p = 0.0015$; 0.94 ± 0.08 MIA_{PPI-low} + vehicle vs. 0.70 ± 0.04 MIA_{PPI-high} + vehicle, $F_{(2,37)} = 5.60$, $p = 0.0196$; 1.20 ± 0.08 control + Poly I:C vs. 0.82 ± 0.03 MIA_{PPI-high} + Poly I:C, $F_{(2,37)} = 6.41$, $p = 0.0011$; 1.09 ± 0.12 MIA_{PPI-low} + Poly I:C vs. 0.82 ± 0.03 MIA_{PPI-high} + Poly I:C, $F_{(2,37)} = 5.60$, $p = 0.0278$ (Table 3)
- Hippocampus, *Cx3cr1*: 1.05 ± 0.13 control + vehicle vs. 0.74 ± 0.04 MIA_{PPI-high} + vehicle, $F_{(5,37)} = 1.86$, $p = 0.0416$; 1.02 ± 0.09 control + Poly I:C vs. 0.76 ± 0.06 MIA_{PPI-high} + Poly I:C, $F_{(2,37)} = 2.16$, $p = 0.0489$ (Table 3)

2.8. Levels of CX3CL1, CX3CR1, CD200 and CD200R proteins in the frontal cortices and hippocampi of adult male offspring

- Frontal cortex, CX3CL1: 0.10 ± 0.01 control + vehicle vs. 0.16 ± 0.02 MIA_{PPI-high} + vehicle, $F_{(5,38)} = 4.73$, $p = 0.0223$; 0.13 ± 0.02 MIA_{PPI-low} + Poly I:C vs. 0.20 ± 0.02 MIA_{PPI-high} + Poly I:C, $F_{(2,38)} = 5.09$, $p = 0.0065$; 0.11 ± 0.02 control + Poly I:C vs. 0.20 ± 0.02 MIA_{PPI-high} + Poly I:C, $F_{(2,38)} = 8.36$, $p = 0.0003$ (Figure 7A)
- Frontal cortex, CX3CR1: 26.84 ± 1.34 control + vehicle vs. 33.95 ± 2.06 MIA_{PPI-high} + vehicle, $F_{(5,38)} = 1.73$, $p = 0.0265$ (Figure 7A)
- Hippocampus, CX3CL1: 0.09 ± 0.01 control + vehicle vs. 0.13 ± 0.02 control + Poly I:C, $F_{(5,38)} = 2.62$, $p = 0.0493$; 0.10 ± 0.01 MIA_{PPI-high} + vehicle vs. 0.15 ± 0.01 MIA_{PPI-high} + Poly I:C, $F_{(5,38)} = 2.62$, $p = 0.0228$ (Figure 7B)
- Hippocampus, CX3CR1: 15.09 ± 0.59 MIA_{PPI-low} + Poly I:C vs. 12.41 ± 0.54 MIA_{PPI-high} + Poly I:C, $F_{(2,38)} = 3.32$, $p = 0.0144$; 14.40 ± 0.77 control + Poly I:C vs. 12.41 ± 0.54 MIA_{PPI-high} + Poly I:C, $F_{(2,38)} = 3.72$, $p = 0.0418$ (Figure 7B)
- Hippocampus, CD200: 75.67 ± 2.83 MIA_{PPI-high} + vehicle vs. 67.21 ± 2.49 MIA_{PPI-high} + Poly I:C, $F_{(5,38)} = 2.57$, $p = 0.0455$; 80.43 ± 3.31 control + Poly I:C vs. 67.21 ± 2.49 MIA_{PPI-high} + Poly I:C, $F_{(2,38)} = 5.91$, $p = 0.0015$ (Figure 7B)
- Hippocampus, CD200R: 22.49 ± 0.95 MIA_{PPI-high} + vehicle vs. 19.26 ± 0.66 MIA_{PPI-high} + Poly I:C, $F_{(5,38)} = 1.78$, $p = 0.0418$; 22.20 ± 1.26 control + Poly I:C vs. 19.26 ± 0.66 MIA_{PPI-high} + Poly I:C, $F_{(2,38)} = 2.32$, $p = 0.0484$ (Figure 7B)

2.9. IBA1 levels in the frontal cortices and hippocampi of adult male offspring

- Frontal cortex, IBA1: 0.032 ± 0.0034 control + Poly I:C vs. 0.043 ± 0.0023 MIA_{PPI-low} + Poly I:C, $F_{(2,17)} = 5.99$, $p = 0.0047$; 0.043 ± 0.0023 MIA_{PPI-low} + Poly I:C vs. 0.035 ± 0.0019 MIA_{PPI-high} + Poly I:C, $F_{(2,17)} = 5.40$, $p = 0.0201$ (Figure 8A)
- Hippocampus, IBA1: 0.031 ± 0.0055 control + Poly I:C vs. 0.051 ± 0.0078 MIA_{PPI-high} + Poly I:C, $F_{(2,17)} = 2.71$, $p = 0.0326$ (Figure 8B)