

Additional file 5 The correlations between the performance in Morris Water Maze and the serum levels of IL-1 β , IL-6 and TNF- α in the F2 generation.

Ages	Cognitive phase	Groups	IL-1 β [r (p)]	IL-6 [r (p)]	TNF- α [r (p)]
3 months	Swam distance	F2CON	-0.040 (0.866)	-0.140 (0.556)	0.061 (0.798)
		Mother-LPS	-0.245 (0.297)	0.391 (0.088)	-0.067 (0.778)
		Father-LPS	0.359 (0.120)	0.575 (0.008) **	0.392 (0.087)
		Parents-LPS	-0.259 (0.271)	0.050 (0.833)	-0.046 (0.846)
	Percentage swam distance in target quadrant	F2CON	-0.093 (0.697)	-0.137 (0.564)	-0.104 (0.663)
		Mother-LPS	0.147 (0.535)	0.230 (0.329)	-0.067 (0.780)
		Father-LPS	-0.234 (0.320)	-0.635 (0.003) **	-0.275 (0.241)
		Parents-LPS	-0.394 (0.086)	-0.374 (0.104)	-0.488 (0.029) *
15 months	Swam distance	F2CON	0.296 (0.206)	0.342 (0.141)	0.427 (0.061)
		Mother-LPS	0.238 (0.313)	0.196 (0.407)	0.023 (0.923)
		Father-LPS	0.141 (0.553)	-0.022 (0.926)	0.264 (0.261)
		Parents-LPS	0.145 (0.543)	0.487 (0.029) *	0.488 (0.029) *
	Percentage swam distance in target quadrant	F2CON	-0.275 (0.241)	-0.485 (0.030) *	-0.430 (0.059)
		Mother-LPS	-0.150 (0.528)	-0.204 (0.388)	-0.055 (0.817)
		Father-LPS	0.267 (0.255)	-0.278 (0.235)	-0.327 (0.160)
		Parents-LPS-	-0.186 (0.432)	-0.648 (0.002) **	-0.442 (0.051)

n = 10 per group. * $P < 0.05$, ** $P < 0.01$. F2-CON, mice whose parents were exposed to saline in utero; Mother-LPS, mice whose mothers were exposed to inflammation in utero; Father-LPS, mice whose fathers were exposed to inflammation in utero; Parents-LPS, whose parents were exposed to inflammation in utero.