

S2_Table: Three-way ANOVA showing the effect of chronic CBD on eCB levels in Tat tg mice.

Brain region	Ligand	Sex effect F, p	Genotype effect F, p	Treatment effect F, p	Sex x Genotype F, p	Sex x Treatment F, p	Genotype x Treatment F, p	Sex x Genotype x Treatment F, p
PFC	AEA	$F(1,54) = 1.49$ $p = 0.22$	$F(1,54) = 0.97$ $p = 0.32$	$F(1,54) = 2.70$ $p = 0.10$	$F(1,54) = 3.71$ $p = 0.06$	$F(1,54) = 0.14$ $p = 0.70$	$F(1,54) = 0.82$ $p = 0.36$	$F(1,54) = 0.81$ $p = 0.77$ (6%)
	2-AG	$F(1,54) = 0.23$ $p = 0.62$	$F(1,54) = 1.63$ $p = 0.20$	$F(1,54) = 3.78$ $p = 0.06$	$F(1,54) = 3.66$ $p = 0.06$	$F(1,54) = 3.09$ $p = 0.08$	$F(1,54) = 0.004$ $p = 0.94$	$F(1,54) = 11.84$ $p = 0.001$ (95%)
	PEA	$F(1,54) = 3.02$ $p = 0.08$	$F(1,54) = 0.05$ $p = 0.80$	$F(1,54) = 0.27$ $p = 0.60$	$F(1,54) = 2.29$ $p = 0.13$	$F(1,54) = 0.65$ $p = 0.42$	$F(1,54) = 1.65$ $p = 0.20$	$F(1,54) = 52.6$ $p < 0.001$ (100%)
	OEA	$F(1,54) = 3.76$ $p = 0.06$	$F(1,54) = 0.16$ $p = 0.69$	$F(1,54) = 0.16$ $p = 0.68$	$F(1,54) = 3.83$ $p = 0.06$	$F(1,54) = 0.97$ $p = 0.32$	$F(1,54) = 0.007$ $p = 0.93$	$F(1,54) = 51.5$ $p < 0.001$ (100%)
	AA	$F(1,54) = 0.24$ $p = 0.62$	$F(1,54) = 0.79$ $p = 0.37$	$F(1,54) = 1.18$ $p = 0.28$	$F(1,54) = 3.46$ $p = 0.06$	$F(1,54) = 4.68$ $p = 0.03$	$F(1,54) = 10.4$ $p = 0.002$	$F(1,54) = 1.22$ $p = 0.27$ (21%)
Hip	AEA	$F(1,54) = 18.51$ $p < 0.001$ F < M	$F(1,54) = 0.41$ $p = 0.52$	$F(1,54) = 6.04$ $p = 0.01$ Vehicle < CBD	$F(1,54) = 0.62$ $p = 0.43$	$F(1,54) = 2.95$ $p = 0.09$	$F(1,54) = 1.73$ $p = 0.19$	$F(1,54) = 3.25$ $p = 0.07$ (47%)
	2-AG	$F(1,54) = 1.91$ $p = 0.17$	$F(1,54) = 0.15$ $p = 0.69$	$F(1,54) = 2.15$ $p = 0.14$	$F(1,54) = 0.73$ $p = 0.39$	$F(1,54) = 0.19$ $p = 0.66$	$F(1,54) = 1.44$ $p = 0.23$	$F(1,54) = 31.88$ $p < 0.001$ (99%)
	PEA	$F(1,54) = 6.62$ $p = 0.01$ F < M	$F(1,54) = 5.62$ $p = 0.02$ Tat(-) < Tat(+)	$F(1,54) = 4.01$ $p = 0.05$ Vehicle < CBD	$F(1,54) = 6.09$ $p = 0.01$	$F(1,54) = 0.007$ $p = 0.934$	$F(1,54) = 0.18$ $p = 0.67$	$F(1,54) = 50.09$ $p < 0.001$ (100%)
	OEA	$F(1,54) = 7.74$ $p = 0.007$ F < M	$F(1,54) = 4.36$ $p = 0.04$ Tat(-) < Tat(+)	$F(1,54) = 0.91$ $p = 0.34$	$F(1,54) = 0.90$ $p = 0.34$	$F(1,54) = 0.22$ $p = 0.63$	$F(1,54) = 0.11$ $p = 0.73$	$F(1,54) = 27.04$ $p < 0.001$ (99%)
	AA	$F(1,54) = 5.57$ $p = 0.02$ F < M	$F(1,54) = 0.51$ $p = 0.47$	$F(1,54) = 1.41$ $p = 0.24$	$F(1,54) = 0.42$ $p = 0.51$	$F(1,54) = 1.29$ $p = 0.26$	$F(1,54) = 9.32$ $p = 0.004$	$F(1,54) = 1.37$ $p = 0.24$ (23%)

Amg	AEA	$F(1,54) = 1.81$ $p = 0.18$	$F(1,54) = 0.01$ $p = 0.90$	$F(1,54) = 4.62$ $p = 0.03$ Vehicle > CBD	$F(1,54) = 9.15$ $p = 0.004$	$F(1,54) = 12.48$ $p < 0.001$	$F(1,54) = 1.34$ $p = 0.25$	$F(1,54) = 4.17$ $p = 0.04$ (57%)
	2-AG	$F(1,54) = 8.09$ $p = 0.006$ F > M	$F(1,54) = 14.4$ $p < 0.001$ Tat(-) < Tat(+)	$F(1,54) = 0.04$ $p = 0.83$	$F(1,54) = 2.83$ $p = 0.09$	$F(1,54) = 0.00$ $p = 0.99$	$F(1,54) = 5.40$ $p = 0.02$	$F(1,54) = 2.25$ $p = 0.13$ (35%)
	PEA	$F(1,54) = 13.4$ $p < 0.001$ F < M	$F(1,54) = 2.09$ $p = 0.15$	$F(1,54) = 11.2$ $p = 0.001$ Vehicle > CBD	$F(1,54) = 19.6$ $p < 0.001$	$F(1,54) = 0.46$ $p = 0.49$	$F(1,54) = 0.10$ $p = 0.72$	$F(1,54) = 51.4$ $p < 0.001$ (100%)
	OEA	$F(1,54) = 5.28$ $p = 0.02$ F < M	$F(1,54) = 0.75$ $p = 0.39$	$F(1,54) = 8.71$ $p = 0.005$ Vehicle > CBD	$F(1,54) = 8.10$ $p = 0.006$	$F(1,54) = 0.33$ $p = 0.56$	$F(1,54) = 0.003$ $p = 0.95$	$F(1,54) = 32.6$ $p < 0.001$ (99%)
	AA	$F(1,54) = 1.83$ $p = 0.18$	$F(1,54) = 0.22$ $p = 0.63$	$F(1,54) = 8.44$ $p = 0.005$ Vehicle > CBD	$F(1,54) = 1.67$ $p = 0.20$	$F(1,54) = 1.68$ $p = 0.19$	$F(1,54) = 14.14$ $p < 0.001$	$F(1,54) = 4.04$ $p = 0.04$ (56%)
BS	AEA	$F(1,54) = 13.80$ $p < 0.001$ F < M	$F(1,54) = 0.43$ $p = 0.51$	$F(1,54) = 0.11$ $p = 0.73$	$F(1,54) = 0.04$ $p = 0.83$	$F(1,54) = 2.74$ $p = 0.10$	$F(1,54) = 0.09$ $p = 0.76$	$F(1,54) = 2.12$ $p = 0.15$ (33%)
	2-AG	$F(1,54) = 0.03$ $p = 0.85$	$F(1,54) = 0.09$ $p = 0.75$	$F(1,54) = 1.31$ $p = 0.25$	$F(1,54) = 1.27$ $p = 0.26$	$F(1,54) = 0.05$ $p = 0.82$	$F(1,54) = 0.42$ $p = 0.51$	$F(1,54) = 57.1$ $p < 0.001$ (100%)
	PEA	$F(1,54) = 6.51$ $p = 0.01$ F < M	$F(1,54) = 5.59$ $p = 0.02$ Tat(-) > Tat(+)	$F(1,54) = 3.24$ $p = 0.07$	$F(1,54) = 2.54$ $p = 0.11$	$F(1,54) = 4.03$ $p = 0.05$	$F(1,54) = 5.76$ $p = 0.02$	$F(1,54) = 40.2$ $p < 0.001$ (100%)
	OEA	$F(1,54) = 5.63$ $p = 0.02$ F < M	$F(1,54) = 0.81$ $p = 0.37$	$F(1,54) = 0.07$ $p = 0.78$	$F(1,54) = 0.39$ $p = 0.53$	$F(1,54) = 0.55$ $p = 0.45$	$F(1,54) = 4.87$ $p = 0.03$	$F(1,54) = 34.1$ $p < 0.001$ (100%)
	AA	$F(1,54) = 3.31$ $p = 0.07$	$F(1,54) = 0.53$ $p = 0.46$	$F(1,54) = 0.39$ $p = 0.84$	$F(1,54) = 0.25$ $p = 0.61$	$F(1,54) = 1.87$ $p = 0.17$	$F(1,54) = 11.24$ $p = 0.001$	$F(1,54) = 3.17$ $p = 0.08$ (46%)

SC	AEA	$F(1,54) = 1.50$ $p = 0.22$	$F(1,54) = 4.83$ $p = 0.03$ Tat(-) < Tat(+)	$F(1,54) = 1.43$ $p = 0.23$	$F(1,54) = 7.24$ $p = 0.009$	$F(1,54) = 7.01$ $p = 0.01$	$F(1,54) = 5.25$ $p = 0.02$	$F(1,54) = 3.75$ $p = 0.06$ (6%)
	2-AG	$F(1,54) = 0.86$ $p = 0.35$	$F(1,54) = 3.54$ $p = 0.06$	$F(1,54) = 3.79$ $p = 0.06$	$F(1,54) = 4.55$ $p = 0.03$	$F(1,54) = 3.56$ $p = 0.06$	$F(1,54) = 0.09$ $p = 0.75$	$F(1,54) = 38.81$ $p < 0.001$ (99%)
	PEA	$F(1,54) = 9.82$ $p = 0.003$ F < M	$F(1,54) = 0.001$ $p = 0.97$	$F(1,54) = 0.08$ $p = 0.77$	$F(1,54) = 0.42$ $p = 0.51$	$F(1,54) = 0.54$ $p = 0.46$	$F(1,54) = 7.07$ $p = 0.01$	$F(1,54) = 15.1$ $p < 0.001$ (98%)
	OEA	$F(1,54) = 13.8$ $p < 0.001$ F < M	$F(1,54) = 0.16$ $p = 0.68$	$F(1,54) = 0.18$ $p = 0.66$	$F(1,54) = 1.03$ $p = 0.31$	$F(1,54) = 0.05$ $p = 0.81$	$F(1,54) = 9.29$ $p = 0.004$	$F(1,54) = 17.8$ $p < 0.001$ (95%)
	AA	$F(1,54) = 7.02$ $p = 0.01$ F < M	$F(1,54) = 0.01$ $p = 0.89$	$F(1,54) = 0.04$ $p = 0.83$	$F(1,54) = 2.93$ $p = 0.09$	$F(1,54) = 1.05$ $p = 0.30$	$F(1,54) = 4.93$ $p = 0.03$	$F(1,54) = 0.02$ $p = 0.87$ (5%)

2-AG, 2-arachidonoylglycerol; AEA, *N*-arachidonylethanolamine; AA, arachidonic acid; Amg, amygdala; BS, brainstem; F, female; M, male; PEA, palmitoylethanolamide; PFC, prefrontal cortex; OEA, oleoylethanolamide; SC, spinal cord.