

Table 1. Comparison of Male and Female Data	
Figure	Statistical Results
1B, reward	Sex: $F_{(1, 14)} = 0.6633$, $p = 0.4290$; Dose: $F_{(2, 19)} = 9.923$, $p = 0.0011$; Interaction: $F_{(2, 19)} = 0.1198$, $p = 0.8878$
1C, latency reward	Sex: $F_{(1, 33)} = 0.5654$, $p = 0.4574$; Dose: $F_{(2, 33)} = 0.7636$, $p = 0.4740$; Interaction: $F_{(2, 33)} = 0.9080$, $p = 0.4132$
1D, active lever	Sex: $F_{(1, 14)} = 0.2587$, $p = 0.6189$; Dose: $F_{(2, 19)} = 5.562$, $p = 0.0125$; Interaction: $F_{(2, 19)} = 0.4552$, $p = 0.6411$
1D, inactive lever	Sex: $F_{(1, 14)} = 0.009594$, $p = 0.9234$; Dose: $F_{(2, 19)} = 2.166$, $p = 0.1421$; Interaction: $F_{(2, 19)} = 0.3471$, $p = 0.7111$
1E, latency lever	Sex: $F_{(1, 33)} = 0.4306$, $p = 0.5163$; Dose: $F_{(2, 33)} = 0.3723$, $p = 0.6920$; Interaction: $F_{(2, 33)} = 0.6025$, $p = 0.5534$
2B, reward	Sex: $F_{(1, 10)} = 0.7051$, $p = 0.4207$; Dose: $F_{(2, 18)} = 10.86$, $p = 0.0008$; Interaction: $F_{(2, 18)} = 0.9964$, $p = 0.3887$
2C, latency reward	Sex: $F_{(1, 10)} = 5.820$, $p = 0.0365$; Dose: $F_{(2, 18)} = 0.5975$, $p = 0.5608$; Interaction: $F_{(2, 18)} = 0.2132$, $p = 0.8100$ Post-hoc: No statistically significant differences between males and females at any dose
2D, active lever	Sex: $F_{(1, 10)} = 0.5543$, $p = 0.4737$; Dose: $F_{(2, 18)} = 8.933$, $p = 0.0020$; Interaction: $F_{(2, 18)} = 1.011$, $p = 0.3838$
2D, inactive lever	Sex: $F_{(1, 10)} = 0.2378$, $p = 0.6363$; Dose: $F_{(2, 18)} = 0.3901$, $p = 0.6826$; Interaction: $F_{(2, 18)} = 0.6979$, $p = 0.5106$
2E, latency lever	Sex: $F_{(1, 10)} = 1.004$, $p = 0.3400$; Dose: $F_{(2, 18)} = 2.124$, $p = 0.1486$; Interaction: $F_{(2, 18)} = 2.486$, $p = 0.1113$
3B, reward; Sup Fig 1A	Sex: $F_{(1, 18)} = 23.89$, $p = 0.0001$; Dose: $F_{(2, 36)} = 0.2099$, $p = 0.8116$; Interaction: $F_{(2, 36)} = 0.05272$, $p = 0.9487$ Post-hoc: Females had a significantly lower number of rewards than males at doses 0 ($p = 0.0003$), 40 ($p = 0.0009$), and 100 ($p = 0.0004$) mg/kg CBD
3C, latency reward; Sup Fig 1B	Sex: $F_{(1, 18)} = 3.802$, $p = 0.0670$; Dose: $F_{(2, 36)} = 5.871$, $p = 0.0062$; Interaction: $F_{(2, 36)} = 3.005$, $p = 0.0621$ Post-hoc: Females showed a longer latency to earn first reward than males at dose 40 mg/kg CBD ($p = 0.0093$)
3D, active lever; Sup Fig 1C	Sex: $F_{(1, 18)} = 16.29$, $p = 0.0008$; Dose: $F_{(2, 36)} = 0.2990$, $p = 0.7433$; Interaction: $F_{(2, 36)} = 0.1165$, $p = 0.8903$ Post-hoc: Females exhibited significantly less active lever presses than males at doses 0 ($p = 0.0279$), 40 ($p = 0.0202$), and 100 ($p = 0.0061$) mg/kg CBD
3D, inactive lever	Sex: $F_{(1, 18)} = 3.717$, $p = 0.0698$; Dose: $F_{(2, 36)} = 0.7331$, $p = 0.4875$; Interaction: $F_{(2, 36)} = 0.0781$, $p = 0.9250$
3E, latency lever; Sup Fig 1D	Sex: $F_{(1, 54)} = 19.01$, $p < 0.0001$; Dose: $F_{(2, 54)} = 2.006$, $p = 0.1445$; Interaction: $F_{(2, 54)} = 0.6307$, $p = 0.5361$ Post-hoc: Females showed a longer latency to first active lever press than males at dose 40 mg/kg CBD ($p = 0.0035$)
4B, LDB	Sex: $F_{(1, 32)} = 1.668$, $p = 0.2058$; Dose: $F_{(3, 32)} = 11.65$, $p < 0.0001$; Interaction: $F_{(3, 32)} = 2.893$, $p = 0.0504$
4C, LDB transitions	Sex: $F_{(1, 24)} = 0.9509$, $p = 0.3392$; Dose: $F_{(3, 24)} = 0.2658$, $p = 0.8494$; Interaction: $F_{(3, 24)} = 0.9147$, $p = 0.4486$
4D, somatic signs	Sex: $F_{(1, 40)} = 15.02$, $p = 0.0004$; Dose: $F_{(4, 40)} = 78.92$, $p < 0.0001$; Interaction: $F_{(4, 40)} = 8.470$, $p < 0.0001$ Post-hoc: Females expressed a larger number of somatic withdrawal signs than males following nicotine alone ($p < 0.0001$)
4E, hot plate	Sex: $F_{(1, 32)} = 0.00001$, $p = 0.9891$; Dose: $F_{(3, 32)} = 17.19$, $p < 0.0001$; Interaction: $F_{(3, 32)} = 0.6678$, $p = 0.5780$