

Figure	Experiment	Age of subjects	Sex	Air val/val animals(litters)	EtOH val/val animals(litters)	Air met/met animals(litters)	EtOH met/met animals(litters)
Figure 1abc	Hippocampal volume measurement	P15	Female	8(6)	8(4)	8(6)	8(5)
Figure 1def	Hippocampal volume measurement	P15	Male	8(6)	8(5)	8(6)	8(7)
Figure 2abcd	Zero maze	~P80	Female	26(10)	13(5)	8(4)	10(4)
Figure 2efgh	Zero maze	~P80	Male	22(10)	18(7)	16(5)	17(5)
Figure 3abcd	Regular trace fear conditioning	~P90	Female	10(6)	10(5)	10(4)	10(5)
Figure 3efgh	Regular trace fear conditioning	~P90	Male	10(5)	10(5)	10(3)	10(4)
Figure 4abcd	Modified trace fear conditioning	~P90	Female	11(5)	15(7)	12(5)	15(7)
Figure 4efgh	Modified trace fear conditioning	~P90	Male	11(5)	17(8)	10(4)	12(4)
Figure 5 ab	Doublecortin cell density measurement	~P90	Male	10(5)	10(6)	10(4)	10(4)
Supplemental figure 1a	Dam blood ethanol concentration (GD17-18)	Adult dams	Female	N/A	4	N/A	4
Supplemental figure 1b	Pup blood ethanol concentration (P7)	P7	Both	N/A	25(4)	N/A	20(4)
Supplemental figure 2a	Pup weights during early development	P2,5,10,15	Both	P2:(13); P5:(13); P10:(13); P15:(13)	P2:(10); P5:(10); P10:(10); P15:(8)	P2:(14); P5:(14); P10:(12); P15:(11)	P2:(19); P5:(19); P10:(15); P15:(12)
Supplemental figure 2b	Animal weights at P50	P50	Both	♀:14(7); ♂:24(8)	♀:20(12); ♂:12(12)	♀:21(19); ♂:25(12)	♀:21(9); ♂:21(16)
Supplemental figure 2b	Animal weights at P90	P90	Both	♀:30(16); ♂:31(15)	♀:21(12); ♂:31(13)	♀:23(6); ♂:22(5)	♀:13(10); ♂: 24(12)
Supplemental figure 2c	Developmental milestone acquisition	P3-P18	Both	(13)	(7)	(7)	(9)
Supplemental figure 3abc	Hippocampal volume measurement	P50	Female	8(5)	8(4)	8(7)	8(5)
Supplemental figure 3def	Hippocampal volume measurement	P50	Male	8(7)	8(5)	8(7)	8(5)
Supplemental figure 4ac	Regular trace fear shock reactivity	P90	Female	10(6)	10(5)	10(4)	10(5)
Supplemental figure 4bd	Regular trace fear shock reactivity	P90	Male	10(5)	10(5)	10(3)	10(4)
Supplemental figure 4eg	Modified trace fear shock reactivity	P90	Female	11(5)	15(7)	12(5)	15(7)
Supplemental figure 4fh	Modified trace fear shock reactivity	P90	Male	11(5)	17(8)	10(4)	12(4)

**Supplemental Table 1.** The number of animals for each experimental group from the Figures and supplemental Figures are presented, with the number of litters the animals came from in parentheses.