

**Supplementary Table 1:** PCR Targeted Array Results. Two-way ANOVA Summary of Ethanol and NNK effects on Oligodendroglial Gene Expression.

Protein	Ethanol Effect		NNK Effect		Ethanol x NNK Effect	
	F- Ratio	P- Ratio	F- Ratio	P- Ratio	F- Ratio	P- Ratio
<b>Immature Oligodendroglia</b>						
Nestin	4.800	0.059	1.200	N.S	1.200	N.S
Vimentin	0.290	N.S	80.18	< 0.0001	0.009	N.S
PROM1	576.3	< 0.0001	1065	< 0.0001	457.6	< 0.0001
CNP	0.350	N.S	4.710	0.062	0.198	N.S
PDGFR- $\alpha$	0.637	N.S	12.71	0.007	0.139	N.S
GC	8.533	0.019	16.13	0.004	4.800	0.059
GalC	55.25	< 0.0001	198.7	< 0.0001	16.12	0.004
<b>Mature Oligodendroglia</b>						
PLP	4.670	0.063	15.63	0.004	5.512	0.047
MOG	0.614	N.S	7.445	0.026	1.752	N.S
MAG-1	7.588	0.025	3.247	0.109	0.324	N.S
MBP	0.066	N.S	5.792	0.043	5.687	0.044
RTN4	1.345	N.S	13.11	0.007	1.209	N.S
RPAIN	177.8	< 0.0001	455.1	< 0.0001	144.0	< 0.0001
ST8sia1	7.840	0.023	10.24	0.013	2.560	N.S

Temporal lobe RNA was analyzed using a targeted PCR array to examine ethanol, NNK and ethanol x NNK interactive effects on Oligodendroglial gene expression. Data were analyzed by Two-way ANOVA with post-hoc Fisher's test. Data are graphed in Figure 1 - 3.

**Back to Top: “↑”**

**Supplementary Table 2:** PCR Targeted Array Results. Two-way ANOVA Summary of Ethanol and NNK effects on Neuroglial and Transcription Factor Gene Expression.

Protein	Ethanol Effect		NNK Effect		Ethanol x NNK Effect	
	F- Ratio	P- Ratio	F- Ratio	P- Ratio	F- Ratio	P- Ratio
<b>Neuroglial Markers</b>						
CSPG4	1.642	N.S	4.252	0.073	2.612	N.S
GFAP	8.237	0.021	12.18	0.008	3.518	0.098
NCAM	6.223	0.037	0.004	N.S	0.223	N.S
NTRK2	3.366	0.104	104.5	< 0.0001	111.4	< 0.0001
GSTP1	0.001	N.S	63.87	< 0.0001	0.178	N.S
GPD1	0.105	N.S	0.039	N.S	0.421	N.S
GPD2	44.38	0.0002	61.39	< 0.0001	38.59	0.0003
<b>Transcription Factors</b>						
FOXO1	29.79	0.0006	16.04	0.004	9.729	0.014
FOXO4	14.38	0.005	55.18	< 0.0001	10.83	0.011
NKX2-2	2.344	N.S	18.24	0.003	2.344	N.S
NKX6-1	425.0	< 0.0001	745.4	< 0.0001	277.0	< 0.0001
Olig1	0.432	N.S	8.106	0.022	0.299	N.S
Olig2	0.301	N.S	.590	N.S	0.004	N.S
PAX6	8.820	0.018	69.62	< 0.0001	30.42	0.0006
SOX9	0.021	N.S	17.66	0.003	0.173	N.S

Temporal lobe RNA was analyzed using a targeted PCR array to examine ethanol, NNK and ethanol x NNK interactive effects on Oligodendroglial Gene expression. Data were analyzed by Two-way ANOVA with post-hoc Fisher's test. Data are graphed in Figure 4 - 6.

**Back to Top: “↑”**