**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 |
| **Immature Oligodendroglia** | | | | | | |
| 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-α         | 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   |
| **Mature Oligodendroglia** | | | | | | |
| 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 Oligodendroglia gene expression. Data were analyzed by Two-way ANOVA with post-hoc Fisher’s test. Data are graphed in Figure 1 - 3.

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**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 |
| **Neuroglial Markers** | | | | | | |
| 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 |
| **Transcription Factors** | | | | | | |
| 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      | 0.590  | 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 Oligodendrogial Gene expression. Data were analyzed by Two-way ANOVA with post-hoc Fisher’s test. Data are graphed in Figure 4 - 6.

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