|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplemental Table 2**: Postmortem cases and H3K4me3 ChIP-seq statistics for NeuN- samples | | | | | | | | | | | |  |
| **Case** | **Brain Bank** | **Brain Bank ID** | **Diagnosis** | **Gender** | **Age (yrs)** | **PMI, h** | **pH** | **Total tags (mlns)** | **Unique map to genome (%)** | **Unique map to promoter (%)** | **Cause of death** | **Medication** |
| A5 | UM-BTB | 1174 | Autism**\*1** | F | 7.8 | 14 | 6.6 | 4.0 | 71 | 17 | Seizure | Phenytoin., CPZ, VPA |
| A8 | UM-BTB | 4899 | Autism**\*** | M | 14 | 9 | N.D. | 8.7 | 73 | 9 | Drowning | Oxcarb., SSRI, Alpha 2 agonist |
| A9 | HBTRC | AN04682 | Autism**#1,2, 3** | M | 15 | 23 | 6.1 | 8.8 | 72 | 18 | Asphyxia/hanging | N.R. |
| A13 | HBTRC | AN00493 | Autism\* | M | 27 | 8.3 | 6.6 | 8.0 | 74 | 15 | Drowning | N.R. |
| C15 | HBTRC | 5251 | Ctrl | M | 19 | 18 | 6 | 15.0 | 76 | 16 | Pneumonia |  |
| C16 | HBTRC | 5601 | Ctrl | M | 24 | 21 | 6.2 | 17.8 | 77 | 16 | Cardiac disease |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Brain Banks: | |  |  |  |  |  |  |  |  |  |  |  |
| HBTRC: Harvard Brain Tissue Resource Center; UM-BTB: University of Maryland Brain and  Tissue Bank for Developmental Disorders | | | | | | | | | | | | |
| CPZ = carbamazepine, Oxcarb = oxacarbazepine, N.R. = none reported, SSRI = selective  serotonin reuptake reinhibitor, VPA = valproic acid | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| \*, ADI-R criteria confirmed by Autism Tissue Program | | | | | |  |  |  |  |  |  |  |
| #, Asberger's or other high functioning disease form | | | | | |  |  |  |  |  |  |  |
| 0, hypoxic encephalopathy | | |  |  |  |  |  |  |  |  |  |  |
| 1, history of seizures and/or anticonvulsant treatment | | | | | | |  |  |  |  |  |  |
| 2, suicide |  |  |  |  |  |  |  |  |  |  |  |  |
| 3, agonal state for at least 12 hours before death | | | | | |  |  |  |  |  |  |  |