**Table S1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | Males | | Females | |
| F value | P value | F value | P value |
| ***D2dr*** | Genotype | F(2, 67) = 24.17 | < 0.0001 | F(2, 42) = 22.23 | < 0.0001 |
| Age | F(2, 67) = 26.88 | < 0.0001 | F(1,42) = 6.84 | < 0.05 |
| Genotype x age | F(4,67)=9.44 | < 0.0001 | F(2,42)=4.31 | < 0.05 |
| ***DARPP32*** | Genotype | F(2, 67) = 16.91 | < 0.0001 | F(2,42) = 26.65 | < 0.0001 |
| Age | F(2,67)=14.18 | < 0.0001 |  |  |
| Genotype x age | F(4,67)=6.77 | < 0.0001 |  |  |
| ***GLT1*** | Genotype | F(2, 67) =6.23 | p < 0.005 | F(2, 42) = 14.16 | < 0.0001 |
| Age | F(2,67)=5.36 | < 0.01 | F(1,42) = 12.60 | < 0.001 |
| Genotype x age |  |  | F(2,42)=3.60 | < 0.05 |
| **Cnr1** | Genotype | F(2, 67) = 13.27 | < 0.0001 | F(2, 42) = 35.87 | < 0.0001 |
| Age | F(2, 67) = 11.36 | < 0.05 | F(1, 42) = 9.47 | < 0.05 |
| Genotype x age | F(4,67)= 4.19 | < 0.005 | F(4,67)=4.80, | < 0.05 |
| **PDE10** | Genotype | F(2, 67) = 19.68 | < 0.0001 | F(2,42) = 43.06, | < 0.0001 |
| Age | F(2, 67) = 25.52 | < 0.0001 |  |  |
| Genotype x age | F(4,67)=7.72 | < 0.0001 |  |  |