**Supplementary Table 1.** Layer and lobe thickness and lobe area for cerebellar lobes IX and X of guinea pigs.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sex | Delivery | Treatment | Molecular Layer (IX) | Granular Layer (IX) | White Matter Tract (IX) | Total Lobe Thickness (IX) | Lobe Area (IX) | Molecular Layer (X) | Granular Layer (X) | White Matter Tract (X) | Total Lobe Thickness (X) | Lobe Area (X) |
| Male | Preterm | Vehicle | 233.9 ± 10.1 | 173.6 ± 20.4 | 114.4 ± 26.1 | 970.3 ± 88.0 | 1,752,089 ± 153,965 | 215.0 ± 16.1 | 160.8 ± 13.1 | 39.4± 4.6 | 845.6 ± 50.3 | 2,107,389 ± 19,207 |
| Tiagabine | 216.4 ± 3.3 | 150.0 ± 15.4 | 94.5 ± 2.5 | 846.9 ± 32.4 | 1,357,356 ± 170,957 | 216.2 ± 5.8 | 180.8 ± 12.7 | 46.1 ± 8.1 | 867.6± 42.6 | 1,739,568 ± 224,319 |
| Zuranolone | 229.1 ± 0.0 | 204.4 ± 0.0 | 88.2 ± 0.0 | 990.4 ± 0.0 | 1,445,873 ± 0.0 | 200.5 ± 18.5 | 168.0 ± 8.9 | 45.8 ± 8.4 | 823.3 ± 56.6 | 2,396,745 ± 0.0 |
| Term | N/A | 242.8 ± 9.5 | 172.3 ± 19.3 | 110.7 ± 7.3 | 999.3 ± 71.8 | 1,956,874 ± 138,455 | 225.5 ± 5.4 | 168.6± 16.0 | 34.0± 2.5 | 879.5 ± 45.1 | 2,033,249 ± 353,346 |
| Female | Preterm | Vehicle | 232.1 ± 3.1 | 154.0 ± 11.1 | 94.2 ± 3.1 | 868.3 ± 25.9 | 1,408,400 ± 80,548 | 247.6 ± 7.2 | 159.2 ± 9.7 | 32.5 ± 4.2 | 878.3 ± 27.2 | 2,148,559 ± 181,061 |
| Tiagabine | 233.0 ± 7.7 | 173.5 ± 8.6 | 101.2 ± 6.5 | 944.1 ± 43.3 | 1,674,762 ± 226,698 | 224.7 ± 8.4 | 157.1 ± 7.9 | 41.2 ± 5.9 | 849.2 ± 29.9 | 1,928,482 ± 309,784 |
| Zuranolone | 222.9 ± 16.8 | 160.4 ± 16.4 | 93.1 ± 10.5 | 888.0 ± 76.2 | 1,752,089 ± 153,965 | 222.7 ± 6.6 | 168.6 ± 16.9 | 33.4 ± 3.0 | 847.4 ± 45.7 | 1,941,325 ± 271,568 |
| Term | N/A | 256.7 ± 9.2 | 181.4 ± 12.7 | 101.0 ± 8.4 | 1008 ± 41.6 | 1,568,260 ± 86,475 | 253.6 ± 14.4 | 192.9 ± 19.0 | 30.7 ± 4.5 | 944.1 ± 50.9 | 2,394,925 ± 265,024 |

Means and standard error of the means for cerebellar layers and total lobe thickness (in μm) and area (in μm2) for juvenile guinea pigs born at term and preterm ages. Comparisons are made within sex. IX = lobe IX and X = lobe X.