|  |  |
| --- | --- |
| **Williams et al., 2022 Williams & Ryugo 2024** | **Cell Counts** |
| **CBA/CaH Mouse** | **Ipsilateral** | **Contralateral** | **Total** |
| Cresyl Violet | 2277 | 2785 | 5062 |
| LOCs - ChAT |   |   | 362 ± 25.4 |
| LOCs - AChE |   |   | 357.8 ± 18.6 |
| IC projecting neurons | 704 ± 201.6 | 701 ± 152.2 | 1405 ± 345.8 |
| Non-IC-projecting glycine cells | 239.3 ± 61.6 | 255.7 ± 48.8 | 495 ± 97.7 |
| Non-IC-projecting glutamate cells | 336.4 ± 80.9 | 335.8 ± 98.1 | 672.2 ± 178.2 |
| LOCs + IC projecting neurons | 1423.8 | 1313.5 | 2737.3 |
| **Others** | **Label** | **Ipsilateral** | **Contralateral** | **Total** |
| *Campbell & Hensen (1988)* - **mouse** | HRP | 311 | 0 | 311 |
| *Brown & Levine (2008)* **mouse** | ChAT | 214.9 | 0 | 214.9 |
| *Ryan et al., (1987)* **gerbil** | LOCs |   |   | ~500 |
| Total Cells | 2374 |
| *Helfert & Schwartz (1986)* - **cat** | All LSO cells labeled by Golgi staining |   |   | 2517 |
| *Irving & Harrison (1967)* **mouse** | Total Cells |   |   | 1190 |
| *Harrison & Feldman (1970)* **mouse** and **chinchilla** | Total cells - mouse  |   |   | 1190 |
| Total cells - chinchilla  | 3320 |
| *Moore & Moore (1971)* **cat, gibbon, & human** | Total cells – cat |   |   | 6533 |
| Total cells – gibbon | 2045 |
| Total cells – human | 2369 |
| *Haragopal et al.,* (2023) **C57 mouse** | No counts provided, %s only |   |   |   |
| *Mellott et al., (2022)* **gerbil** | Glycine neurons | 562 | 26 | 588 |
| Glutamate neurons | 818 | 1808 | 2626 |
| Unlabeled neurons | 296 | 226 | 622 |

**Supplementary Table 1. Comparison of LSO counts in our study to the literature.**