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| **Figure 3 – Supplementary Table 1** Overview of individual projection neuron morphologies |
| **Type** | **ID** | ***N*** | **Soma** | **AL innervations** | **Protocerebral innervations** |
| **mALT** |  |  |  |  |  |
| Pm\_a | Cu-mALT1 | 1 | MC | Cu | Ca, VLP, SLP, SIP |
| Pm\_a | Cu-mALT2 | 1 | MC | Cu | Ca, VLP, SLP, SIP |
| Pm\_a | Cu-mALT3 | 1 | MC | Cu | Ca, VLP, SLP § |
| Pm\_a | Cu-mALT4 | 2 | MC | Cu | Ca, VLP, SLP § |
| Pm\_a | Cu-mALT5 | 1 | MC | Cu | Ca, VLP, SLP |
| Pm\_a | Cu-mALT6 | 1 | MC | Cu | Ca, VLP, SLP § |
| Pm\_a | Cu-mALT7 | 1 | MC | Cu | Ca, VLP, SLP |
| Pm\_a | Cu-mALT8 | 1 | MC | Cu | Ca, VLP, SLP, SIP |
| Pm\_a | Cu-mALT9 | 1 | MC | Cu | Ca, VLP, SLP, SIP |
| Pm\_a | Cu-mALTa | 1 | MC | Cu | Ca, VLP, SLP § |
| Pm\_a | Cu-mALTb | 1 | MC | Cu | Ca, VLP, SLP, SIP |
| Pm\_a | Cu-mALTc | 1 | MC | Cu | Ca, VLP, SLP |
| Pm\_a | Cu-mALTd | 1 | MC | Cu | Ca, VLP, SLP |
| Pm\_a | Cu-mALTe | 1 | MC | Cu | Ca, VLP, SLP § |
| Pm\_a | Cu-mALTf | 1 | MC | Cu | Ca, VLP, SLP, SIP |
| Pm\_a | Cu-mALTg | 1 | MC | Cu | Ca, VLP, SLP, SIP |
| Pm\_a | dma-mALT1 | 1 | MC | dm-a | Ca, LH, VLP |
| Pm\_a | dma-mALT2 | 3 | MC | dm-a | Ca, LH, VLP |
| Pm\_a | dma-mALTa | 1 | MC | dm-a | Ca, LH, VLP |
| Pm\_a | dma-mALTb | 1 | MC | dm-a | Ca, LH, VLP |
| Pm\_a | dmaPCx-mALTa | 1 | MC | dm-a, PCx Gs | Ca, LH, VLP |
| Pm\_a | dmp-mALTa | 1 | MC | dm-p | Ca, LH, VLP  |
| Pm\_a | dmp-mALTb | 1 | MC | dm-p | Ca, LH, VLP |
| Pm\_a | dmp-mALTc | 1 | MC | dm-p | Ca, LH, VLP |
| Pm\_a | dmp-mALTd | 1 | MC | dm-p | Ca, LH, VLP |
| Pm\_a | MGCdmp-mALT1 | 1 | MC | Cu, dm-p, dm-a | Ca, LH, VLP |
| Pm\_a | MGC-mALTa | 1 | MC | Cu, dm-p, dm-a | Ca, LH, VLP |
| Pm\_a | MGC-mALTb | 1 | MC | Cu, dm-p, dm-a | Ca, LH, VLP |
| Pm\_a | MGCdma-mALTc | 1 | MC | Cu, dm-a, dm-p | Ca, VLP |
| **mlALT** |   |   |   |   |   |
| Pml\_a | MGC-mlALT1 | 1 | LC | Cu, dm-a, dm-p | VLP |
| Pml\_a | MGC-mlALT2 | 1 | LC | Cu, dm-a, dm-p | VLP |
| Pml\_b | MGCCu-mlALTa | 1 | LC | Cu, dm-p, dm-a, PCx G | VLP, SLP, SIP |

Ca, calyces; CB, central body; LC, lateral cell body cluster; LH, lateral horn; MC, medial cell body cluster; SIP, superior intermediate protocerebrum; SLP, superior lateral protocerebrum; VLP, ventrolateral protocerebrum.