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| **Table S1:** Sample sizes of individual male *Gryllus bimaculatus* adult crickets used for each tissue and treatment of the experiment. Each column represents a different gene.  |
| **Tissue** | **Treatment** | ***Rpl18a*** | ***actin*** | ***opLW*** | ***cry2*** | ***per*** | ***c-fosB*** | ***cry1*** |
| **Brain** | 0lx | 9 | 9 | 8 | 9 | 8 | 9 | 8 |
| 2lx | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 5lx | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 40lx | 5 | 5 | 5 | 5 | 3 | 5 | 3 |
| **Optic lobe** | 0lx | 4 | 4 | 4 | 3 | 3 | 4 | 2 |
| 2lx | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 5lx | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 40lx | 6 | 6 | 6 | 5 | 6 | 6 | 6 |
| **Malpighian tubules** | 0lx | 14 | 14 | 13 | 14 | 12 | 13 | 12 |
| 2lx | 9 | 9 | 8 | 9 | 9 | 9 | 9 |
| 5lx | 12 | 12 | 10 | 11 | 11 | 11 | 11 |
| 40lx | 12 | 12 | 12 | 12 | 11 | 12 | 12 |
| **Haemolymph** | 0lx | 5 | 5 | 4 | 5 | 4 | 4 | 3 |
| 2lx | 5 | 5 | 5 | 5 | 4 | 5 | 4 |
| 5lx | 5 | 5 | 4 | 4 | 4 | 4 | 4 |
| 40lx | 7 | 7 | 5 | 6 | 6 | 6 | 6 |