**Supplementary File 2. Blood cell counts and lamellocytes count (per mm2) in circulation from un-infected wandering 3rd instar larvae.**

|  |  |  |
| --- | --- | --- |
| **Genotypes** | **Total blood cells /mm2**  **(Mean ± SD)** | **Lamellocytes**  **(Mean ± SD)** |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | *w1118* |  |  |  |  | | 437.6± 81.8 | 0 |
| *orco1/orco1* | 410.6± 64.5 | 0 |
| *Orco>+* | 449.4 ± 127 | 0 |
| *Orco>Hid* | 447.6± 121 | 0 |
| *Or42a>+* | 412.3 ± 87 | 0 |
| *Or42a>Hid* | 401.2 ± 106.9 | 0 |
| *Or49a>+* | 353.6 ± 60.5 | 0 |
| *Or49a>Hid* | 415 ± 118.8 | 0 |
| *GH146>/+* | 287±54 | 0.13 ± 0.2 |
| *GH146>ChATRNAi* | 402.4±124 | 0.71 ± 0.9 |
| *Kurs6>/+* | 404.3 ± 86.8 | 0 |
| *Kurs6>Gad1RNAi* | 407.8 ± 121.8 | 0 |
| *dome-MESO-GFP >/+* | 300.6 ± 88.8 | 0.1 ± 0.3 |
| *dome-MESO-GFP>GABABR1RNAi* | 235.6 ± 48.3 | 2.3 ± 1.8 |
| *dome-MESO-GFP>GatRNAi* | 302.5 ± 84.8 | 0.2 ± 0.4 |
| *dome-MESO-GFP>Gat* | 317.2 ± 166.5 | 4.1 ± 6.2 |
| *dome-MESO-GFP>SsadhRNAi* | 540.4 ± 113.8 | 0.8 ± 1 |
| *dome-MESO-GFP>*α*KDHRNAi* | 354.5 ± 76.7 | 1.2 ± 0.9 |
| *dome-MESO-GFP>skapRNAi* | 411 ± 74.6 | 1.6 ± 2.7 |
| *dome-MESO-GFP>SdhARNAi* | 266.5 ± 57.3 | 0.6 ± 0.7 |
| *dome-MESO-GFP>Hph* | 323.9 ± 131 | 0.05 ± 0.1 |
| *dome-MESO-GFP>HphRNAi* | 378.8 ± 121.7 | 0.4 ± 0.6 |
| *dome-MESO-GFP>simaRNAi* | 357.2 ± 45.5 | 0.3 ± 0.5 |
| *dome-MESO-GFP>LdhRNAi* | 525.5 ± 205 | 0 |
| *Hml>/+* (RF) | 436.2 ± 51.5 | 0 |
| *Hml>/+* (WOF) | 562.4 ± 103.6 | 0.21 ± 0.2 |

“n>5” and represents number of *Drosophila* larvae analysed. RF is regular food, WOF is wasp odor food. Rearing condition for all crosses unless mentioned was in regular food medium (see methods for details). Wherever not mentioned, the counts are non-significant (ns).