**Additional file 1: Table S1.** Statistical analysis of LL-5 sand fly cells immune response after early *Wolbachia* infections (*w*Mel or *w*MelPop-CLA strains).

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| **Figure** | ***Wolbachia* strain** | **LL-5 Gene** | **Time post-infection** | **Column factor *F*(df1,df2)** | **Row factor *F*(df1,df2)** | ***P*-value** |

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| --- | --- | --- | --- | --- | --- | --- |
| Fig. 1 c | wMel | Dorsal | 12h | *F*(1, 46) = 3.310 | *F*(4, 46) = 2.535 | 0.0032 |
| Fig. 1 c | wMelPop-CLA | Dorsal | 12h | *F*(1, 68) = 7.363 | *F*(4, 68) = 4.718 | 0.0002 |
| Fig. 1 d | wMelPop-CLA | Caspar | 48h | *F*(1, 68) = 14.13 | *F*(4, 68) = 1.999 | 0.0123 |
| Fig. 1 e | wMelPop-CLA | Relish | 12h | *F*(1, 68) = 16.56 | *F*(4, 68) = 3.847 | < 0.0001 |
| Fig. 1 f | wMelPop-CLA | PIAS | 12h | *F*(1, 68) = 6.315 | *F*(4, 68) = 1.542 | 0.0258 |
| Fig. 1 g | wMel | STAT | 24h | *F*(1, 39) = 1.474 | *F*(4, 39) = 6.716 | 0.0003 |
| Fig. 1 h | wMel | Attacin | 24h | *F*(1, 38) = 13.49 | *F*(4, 38) = 4.716 | 0.0001 |
| Fig. 1 h | wMelPop-CLA | Attacin | 12h | *F*(1, 65) = 18.56 | *F*(4, 65) = 1.416 | 0.0205 |
| Fig. 1 h | wMelPop-CLA | Attacin | 24h | *F*(1, 65) = 18.56 | *F*(4, 65) = 1.416 | 0.0263 |
| Fig. 1 i | wMel | Cecropin | 12h | *F*(1, 44) = 25.59 | *F*(4, 44) = 7.524 | 0.0006 |
| Fig. 1 i | wMel | Cecropin | 24h | *F*(1, 44) = 25.59 | *F*(4, 44) = 7.524 | < 0.0001 |
| Fig. 1 i | wMelPop-CLA | Cecropin | 6h | *F*(1, 68) = 19.62 | *F*(4, 68) = 4.578 | 0.0208 |
| Fig. 1 i | wMelPop-CLA | Cecropin | 12h | *F*(1, 68) = 19.62 | *F*(4, 68) = 4.578 | 0.0008 |
| Fig. 1 i | wMelPop-CLA | Cecropin | 24h | *F*(1, 68) = 19.62 | *F*(4, 68) = 4.578 | 0.0051 |
| Fig. 1 j | wMel | Defensin 1 | 12h | *F*(1, 44) = 15.00 | *F*(4, 44) = 4.602 | < 0.0001 |
| Fig. 1 j | wMel | Defensin 1 | 24h | *F*(1, 44) = 15.00 | *F*(4, 44) = 4.602 | 0.0029 |
| Fig. 1 j | wMelPop-CLA | Defensin 1 | 6h | *F*(1, 68) = 18.22 | *F*(4, 68) = 5.039 | < 0.0001 |
| Fig. 1 k | wMel | Defensin 2 | 6h | *F*(1, 45) = 10.33 | *F*(4, 45) = 3.538 | 0.036 |
| Fig. 1 k | wMel | Defensin 2 | 12h | *F*(1, 45) = 10.33 | *F*(4, 45) = 3.538 | 0.0069 |
| Fig. 1 k | wMelPop-CLA | Defensin 2 | 12h | *F*(1, 66) = 22.77 | *F*(4, 66) = 6.094 | 0.0205 |
| Fig. 1 k | wMelPop-CLA | Defensin 2 | 24h | *F*(1, 66) = 22.77 | *F*(4, 66) = 6.094 | 0.0237 |
| Fig. 1 k | wMelPop-CLA | Defensin 2 | 48h | *F*(1, 66) = 22.77 | *F*(4, 66) = 6.094 | < 0.0001 |
| Fig. 1 l | wMel | iNOS | 12h | *F*(1, 42) = 4.197 | *F*(4, 42) = 2.008 | 0.0034 |
| Fig. 1 l | wMelPop-CLA | iNOS | 24h | *F*(1, 65) = 5.606 | *F*(4, 65) = 2.494 | 0.001 |
| Fig. 1 m | wMel | Catalase | 48h | *F*(1, 46) = 0.6160 | *F*(4, 46) = 3.003 | 0.0149 |
| Fig. 1 m | wMelPop-CLA | Catalase | 72h | *F*(1, 50) = 17.85 | *F*(4, 50) = 0.2995 | 0.0408 |
| Fig. 1 n | wMel | SOD3A | 6h | *F*(1, 42) = 1.092 | *F*(4, 42) = 4.550 | 0.0128 |