**Table S4. (A)** Effect of silencing of IMD pathway members and effectors on low exposure infections. **(B)** Effect of silencing of IMD pathway members and effectors on medium exposure infections. **(C)** Effect of silencing of IMD pathway members and effectors on high exposure infections.

**A.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Fig. 5A****Low exposure** | **GFP** | **WAPL1** | **APL1A** | **APL1B** | **APL1C** | **LRIM** | **TEP1** | **LRRD7** | **CASPAR** | **IMD** |
| **n** | 46 | 43 | 52 | 48 | 60 | 21 | 46 | 45 | 49 | 47 |
| **Range** | 0,1-10 | 0,1-13 | 0,1-11 | 0,1-8 | 0,1-16 | 0,1-12 | 0,1-10 | 0,1-11 | 0,1-4 | 0,1-9 |
| **Prevalence** | 69.6% | 86% | 78.8% | 69.4% | 81.7% | 81% | 78.3% | 84.4% | 51% | 78.7% |
| Fisher’s test p-value | - | **0.0063** | 0.1933 | 1.0000 | 0.0675 | 0.0718 | 0.1933 | **0.0358** | **0.0090** | 0.1933 |
| **Median with zeros** | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| % decreased oocysts load | - | - | - | - | - | - | - | - | 0% | - |
| % increased oocysts load | - | 100% | 0% | 100% | 100% | 100% | 100% | 100% | - | 100% |
| Kruskal-Wallis Comparison Summary | \*\*\* |
| Dunn’s Multiple Comparison Summary | - | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 |
| Mann-Whitney test p-value | - | **0.0030** | 0.1225 | 0.2433 | **0.0123** | 0.2692 | **0.0253** | **0.0106** | **0.0124** | 0.1375 |
| **Median without zeros** | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 1 | 2 |
| Kruskal-Wallis Comparison Summary | \*\*\* |
| Dunn’s Multiple Comparison Summary | - | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 |
| Mann-Whitney test p-value | - | **0.0177** | 0.2442 | **0.0312** | **0.0299** | 0.5896 | **0.0172** | **0.0493** | 0.0540 | 0.2621 |

\*0.05>p>0.03, \*\* 0.03>p>0.01, \*\*\* p>0.01.

**B.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Fig. 5B****Medium exposure** | **GFP** | **WAPL1** | **APL1A** | **APL1B** | **APL1C** | **LRIM** | **TEP1** | **LRRD7** | **CASPAR** | **IMD** |
| **n** | 75 | 34 | 32 | 47 | 32 | 38 | 43 | 47 | 59 | 70 |
| **Range** | 0,1-70 | 0,1-117 | 0,1-111 | 0,1-75 | 0,1-165 | 0,2-122 | 0,1-103 | 0,1-103 | 0,1-85 | 0,2-140 |
| **Prevalence** | 93.3% | 97.1% | 81.2% | 97.9% | 96.9% | 86.8% | 93% | 95.7% | 62.7% | 95.7% |
| Fisher’s test p-value | - | 0.2789 | **0.0152** | 0.2789 | 0.4976  | 0.1462 | 1.0000 | 0.7475 | **< 0.0001** | 0.7475 |
| **Median with zeros** | 7 | 18 | 10 | 16 | 12 | 21.5 | 22 | 18 | 2 | 22.5 |
| % decreased oocysts load | - | - | - | - | - | - | - | - | 71.4% | - |
| % increased oocysts load | - | 157.1% | 42.9% | 128.6% | 71.4% | 207.1% | 214.3% | 157.1% | - | 221.4% |
| Kruskal-Wallis Comparison Summary | \*\*\* |
| Dunn’s Multiple Comparison Summary | - | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | **p<0.05** | p>0.05 | **p<0.05** |
| Mann-Whitney test p-value | - | **0.0032** | 0.8063 | **0.0309** | 0.2427 | **0.0164** | **0.0026** | **0.0004** | **0.0003** | **0.0005** |
| **Median without zeros** | 9.5 | 19 | 12.5 | 18 | 12 | 25 | 23 | 21 | 6 | 23 |
| Kruskal-Wallis Comparison Summary | \*\*\* |
| Dunn’s Multiple Comparison Summary | - | p>0.05 | p>0.05 | p>0.05 | p>0.05 | **p<0.05** | **p<0.05** | **p<0.05** | p>0.05 | **p<0.05** |
| Mann-Whitney test p-value | - | **0.0044** | 0.3728 | 0.0623 | 0.3416 | **0.0006** | **0.0007** | **0.0003** | 0.4082 | **0.0004** |

\*0.05>p>0.03, \*\* 0.03>p>0.01, \*\*\* p>0.01.

**C.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Fig. 5C****High exposure** | **GFP** | **WAPL1** | **APL1A** | **APL1B** | **APL1C** | **LRIM** | **TEP1** | **LRRD7** | **CASPAR** | **IMD** |
| **n** | 80 | 65 | 69 | 75 | 49 | 41 | 83 | 74 | 68 | 53 |
| **Range** | 0-373 | 0-330 | 0-463 | 0-326 | 4-276 | 16-227 | 1-386 | 2-302 | 0-204 | 11-208 |
| **Prevalence** | 96.2% | 92.3% | 94.2% | 97.3% | 100% | 100% | 100% | 100% | 97.1% | 100% |
| Fisher’s test p-value | - | 0.2789 | **0.0152** | 0.2789 | 0.4976 | 0.1462 | 1.0000 | 0.7475 | **< 0.0001** | 0.7475 |
| **Median with zeros** | 86 | 94 | 75 | 83 | 106 | 95 | 120 | 85.5 | 60.5 | 100 |
| % decreased oocysts load | - | - | 12.8% | 3.5% | - | - | - |  | 29.7% | - |
| % increased oocysts load | - | 9.3% | - | - | 23.3% | 10.5% | 39.5% | 0 | - | 16.3%  |
| Kruskal-Wallis Comparison Summary | \*\*\* |
| Dunn’s Multiple Comparison Summary | - | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 |
| Mann-Whitney test p-value | - | 0.4105 | 0.7913 | 0.4717 | 0.4303 | 0.3633 | **0.0225** | 0.5912 | **0.0026** | 0.2936 |
| **Median without zeros** | 93 | 96.5 | 81 | 85 | 106 | 95 | 120 | 85.5 | 63 | 100 |
| Kruskal-Wallis Comparison Summary | \*\*\* |
| Dunn’s Multiple Comparison Summary | - | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 | p>0.05 |
| Mann-Whitney test p-value | - | 0.1793 | 0.9575 | 0.3799 | 0.6560 | 0.5548 | 0.0545 | 0.8890 | **0.0011** | 0.4802 |

\*0.05>p>0.03, \*\* 0.03>p>0.01, \*\*\* p>0.01.