

**Supplemental Table S13.** Two-by-two contingency table of counts of ASE versus non-ASE allele pairs that have at least one allele annotated as secretome gene or BUSCO. Fisher's exact test (two-sided) was applied to obtain the odds ratio and Fisher's exact p-value, adjusted for multiple testing using <5% FDR. UG: ungerminated spores; dpi: days post infection.

| UG                                              |           |               |
|-------------------------------------------------|-----------|---------------|
|                                                 | ASE pairs | non-ASE pairs |
| Secretome                                       | 107       | 828           |
| BUSCO                                           | 14        | 1197          |
| Odds ratio=11.05; Fisher's exact p-val=1.39-e25 |           |               |

| 4 dpi                                          |           |               |
|------------------------------------------------|-----------|---------------|
|                                                | ASE pairs | non-ASE pairs |
| Secretome                                      | 13        | 388           |
| BUSCO                                          | 9         | 1189          |
| Odds ratio=4.43; Fisher's exact p-val=6.62e-04 |           |               |

| 6 dpi                           |           |               |
|---------------------------------|-----------|---------------|
|                                 | ASE pairs | non-ASE pairs |
| Secretome                       | 44        | 687           |
| BUSCO                           | 12        | 1198          |
| Odds ratio=6.39; p-val=4.20e-10 |           |               |

| 8 dpi                                          |           |               |
|------------------------------------------------|-----------|---------------|
|                                                | ASE pairs | non-ASE pairs |
| Secretome                                      | 85        | 850           |
| BUSCO                                          | 12        | 1199          |
| Odds ratio=9.99; Fisher's exact p-val=6.26e-20 |           |               |

| 10 dpi                                          |           |               |
|-------------------------------------------------|-----------|---------------|
|                                                 | ASE pairs | non-ASE pairs |
| Secretome                                       | 104       | 831           |
| BUSCO                                           | 10        | 1201          |
| Odds ratio=15.03; Fisher's exact p-val=2.30e-27 |           |               |

| 12 dpi                                         |           |               |
|------------------------------------------------|-----------|---------------|
|                                                | ASE pairs | non-ASE pairs |
| Secretome                                      | 92        | 843           |
| BUSCO                                          | 9         | 1202          |
| Odds ratio=14.58;Fisher's exact p-val=1.74e-24 |           |               |