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| Table S1. Isolates used in evolutionary analyses. |
| **Species** | **Isolate** | **MAT type** | **Accession #** |
| *Alternaria alternata* | SH-MIL-11s | *MAT1-1-1* | this study |
| *A. alternata* | SH-MIL-22s | *MAT1-1-1* | this study |
| *A. alternata* | SH-MIL-34s | *MAT1-1-1* | this study |
| *A. alternata* | 15A | *MAT1-1-1* | AB009451 |
| *A. citriarbusti* | SH-MIL-38s | *MAT1-1-1* | this study |
| *A. brassicae* | 01-8a | *MAT1-1-1* | this study |
| *A. brassicae* | 01-8b | *MAT1-1-1* | this study |
| *A. brassicicola* | 01-1c-s | *MAT1-1-1* | this study |
| *A. brassicicola* | 01-2a-s | *MAT1-1-1* | this study |
| *A. solani* | IdahoA | *MAT1-1-1* | this study |
| *A. solani* | EGS 44-098 | *MAT1-1-1* | this study |
| *Stemphylium sp.\** | P56 | *MAT1-1-1* | AY339852 |
| *Stemphylium sp.\** | P107 | *MAT1-1-1* | AAR04443 |
| *Stemphylium loti* | P384 | *MAT1-1-1* | AAR04470 |
| *Stemphylium calilstephi* | P383 | *MAT1-1-1* | AY339863 |
| *Stemphylium sp.* | EGS 49-043 | *MAT1-1-1* | AY339861 |
| *Stemphylium trifolii* | EGS 12-142 | *MAT1-1-1* | AY339856 |
| *Stemphylium sarciniforme* | EGS 38-121 | *MAT1-1-1* | AY339854 |
| *Stemphylium lancipes* | EGS 46-182 | *MAT1-1-1* | AY339853 |
| *Stemphylium solani* | EGS 41-135 | *MAT1-1-1* | AY339855 |
| *Stemphylium sp.* | EGS 44-070 | *MAT1-1-1* | AY339860 |
| *A. alternata* | 0-276 | *MAT1-2-1* | AB009452 |
| *A. alternata* | SH-MIL-13s | *MAT1-2-1* | this study |
| *A. alternata* | SH-MIL-14s | *MAT1-2-1* | this study |
| *A. tangelonis* | SH-MIL-19s | *MAT1-2-1* | this study |
| *A. citriarbusti* | SH-MIL-1s | *MAT1-2-1* | this study |
| *A. brassicicola* | 01-9c-s | *MAT1-2-1* | this study |
| *A. brassicicola* | 01-41a-s | *MAT1-2-1* | this study |
| *A. brassicicola* | 01-23a-s | *MAT1-2-1* | this study |
| *A. solani* | 21ss | *MAT1-2-1* | this study |
| *A. solani* | 39ss | *MAT1-2-1* | this study |
| *S. xanthomonatis* | EGS 17-137 | *MAT1-2-1* | AY340940 |
| *Stemphylium sp.* | EGS 45-031 | *MAT1-2-1* | AY340941 |
| *S. loti* | P385 | *MAT1-2-1* | AY340945 |
| *Stemphylium sp.* | EGS 42-055 | *MAT1-2-1* | AY340942 |
| *S. sarciniforme\**  | EGS 49-037 | *MAT1-2-1* | AAF87724 |
| *S. sarciniforme\** | EGS 49-033 | *MAT1-2-1* | TreeBase\*S1383 |
| *A. alternata* | AGA | *G protein alpha subunit* | AB239917 |
| *A. alternata* | AC325 | *endopolygalacturnase* | AB047682 |
| *A. alternata* | unknown | *endoxylanase* | AF176570 |
| *A. alternata* | unknown | *exoglucanse* | AF176571 |
| *A. brassicicola* | Abra43 | *mitogen-activated protein kinase* | AY987486 |
| *A. brassicicola* | ATCC 96866 | *elongation factor alpha 1* | AB04028.1 |
| *A. brassicicola* | ATCC 96866 | *mitogen-activated protein kinase* | AB09565.1 |
| *A. longipes*  | Z-26 | *histidine kinase* | ACN62989 |
| *A. alternata*  | unknown | *MAP kinase* | GC414506 |
| *A. brassicicola*  | Abra40 | *histidine kinase* | AY700098 |
| *A. brassicicola* | Abra43 | *gluathione transferase*  | AY987487 |