**Supplementary File 1.** Table: Regression analysis of mean inferred vs observed symptom trait values.

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| --- | --- | --- | --- | --- |
| **Symptom** | **Pearson R2** | **Slope** | **Average Pagel’s λ** | **p-value** |
| Chlorotic area | 0.58 | 0.85 | 0.68 | 6.1 x 10-4 |
| Intensity of chlorosis | 0.18 | 0.40 | 0.53 | 2.7 x 10-2 |
| Leaf deformation | 0.09 | 0.15 | 0.36 | 1.8 x 10-1 |
| Leaf stunting | 0.73 | 0.86 | 0.60 | < 1 x 10-5 |