

Supplementary Materials:

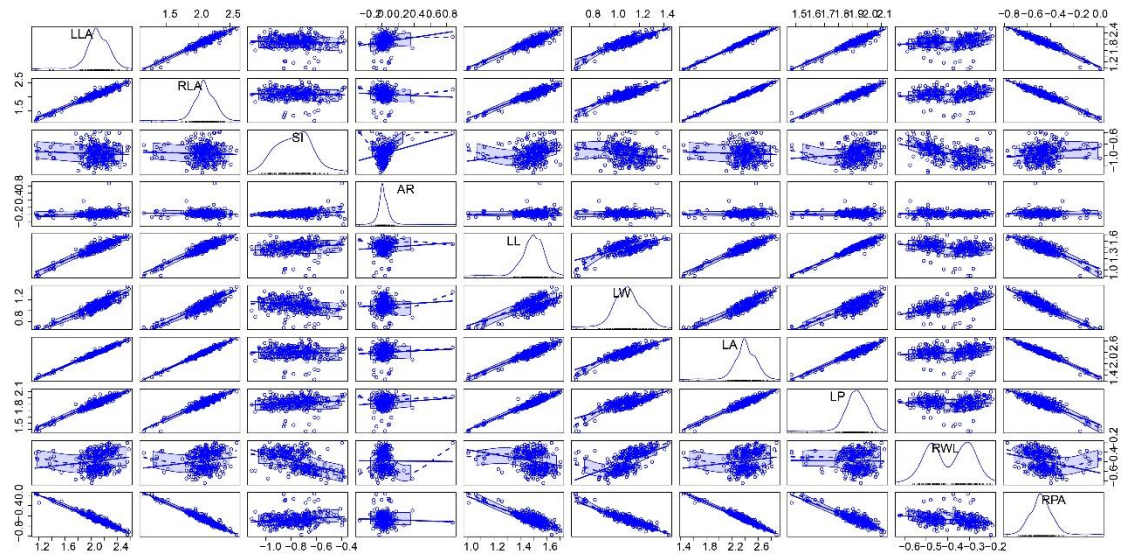


Figure S1. Normal distribution detection for the 10 leaf-shaped indicators.

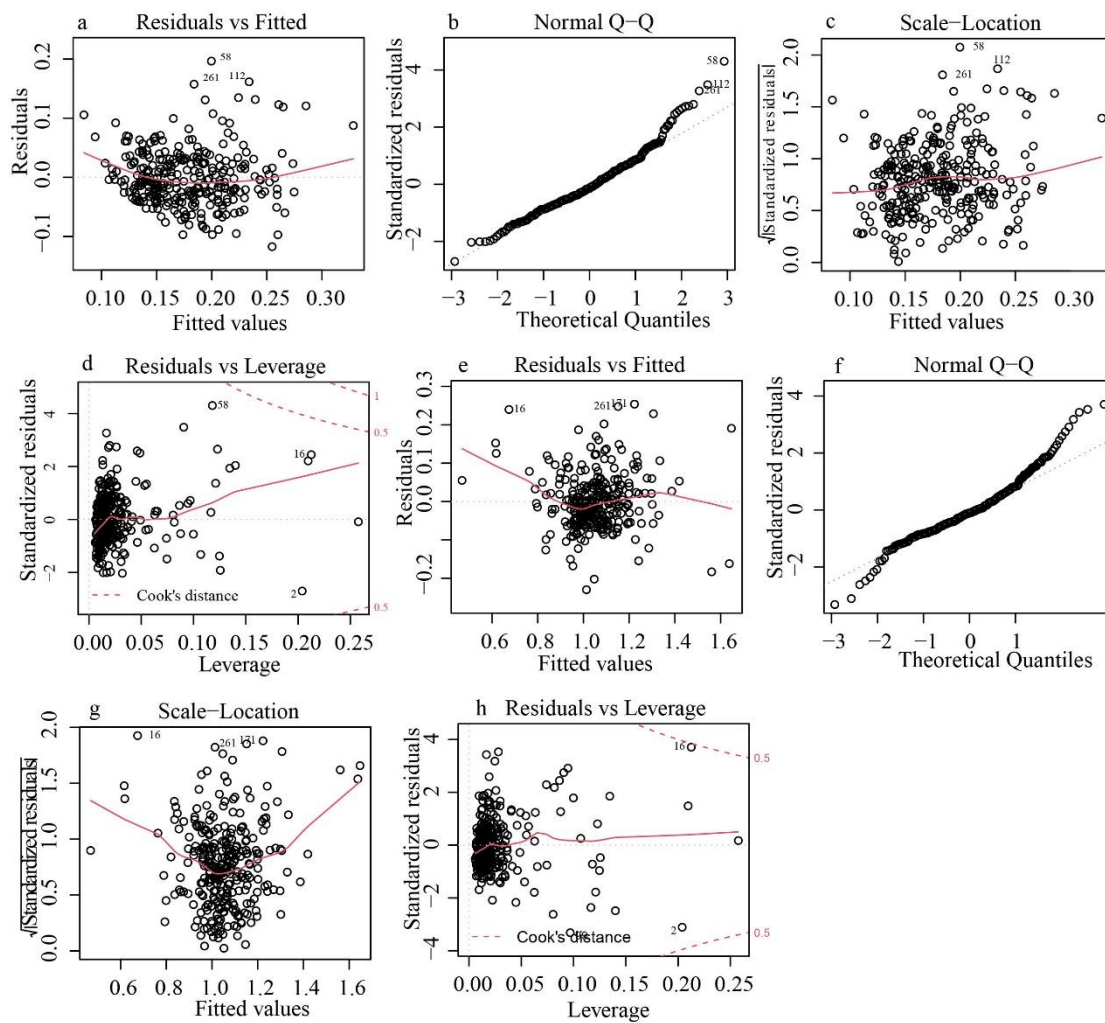


Figure S2. Residual error analysis and outlier detection of two models. (a–d): SI, (e–h): AR.

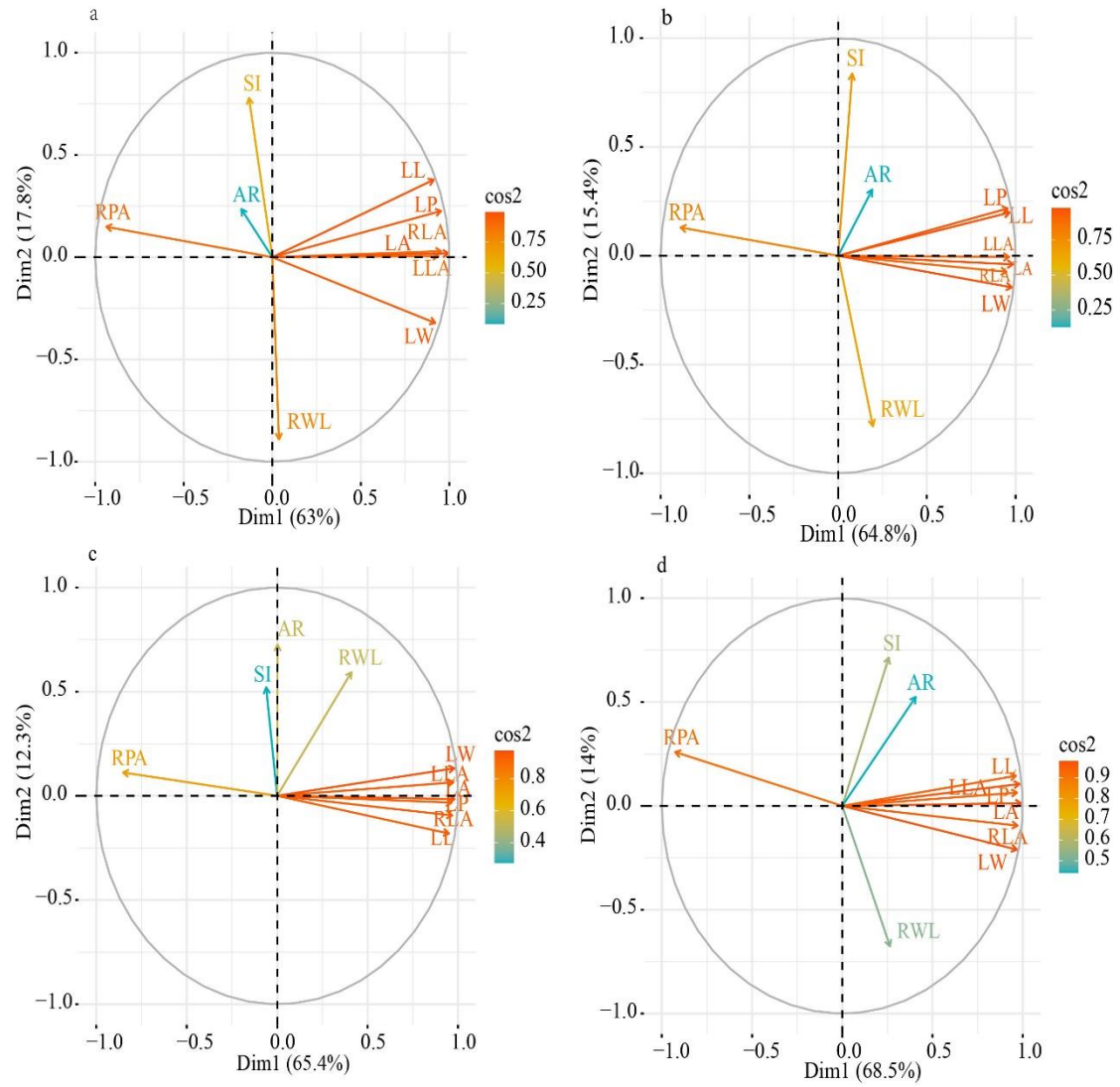


Figure S3. Correlation and important value of 10 leaf phenotypic variables. (a): *Q. acutissima*; (b): *Q. variabilis*; (c): *Q. fabri*