

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: The 909 genetic variations (affecting 686 genes) were annotated as having a high effect on gene function.

File name: Supplementary Data 2

Description: The detailed information of metabolites identified by metabolite profiling.

File name: Supplementary Data 3

Description: The genes involved in the biosynthesis of coumarins, lignins and lignans.

File name: Supplementary Data 4

Description: The gene numbers of inferred terpenoid backbone biosynthesis pathway (map00900) related genes in *A. sinensis* (QH), *A. sinensis* (GS) and other 8 related species annotated using KEGG database.

File name: Supplementary Data 5

Description: Seeds sequences or KEGG annotation information used for gene identification.

File name: Supplementary Data 6

Description: The source data for graphs and charts in the main figures.