

Supplementary Material

Widely Targeted Metabolomics Reveals Metabolite Diversity in *Polygonatum kingianum* and its New varieties with Different Growth Years

1 Supplementary Figures and Tables

1.1 Supplementary Figures

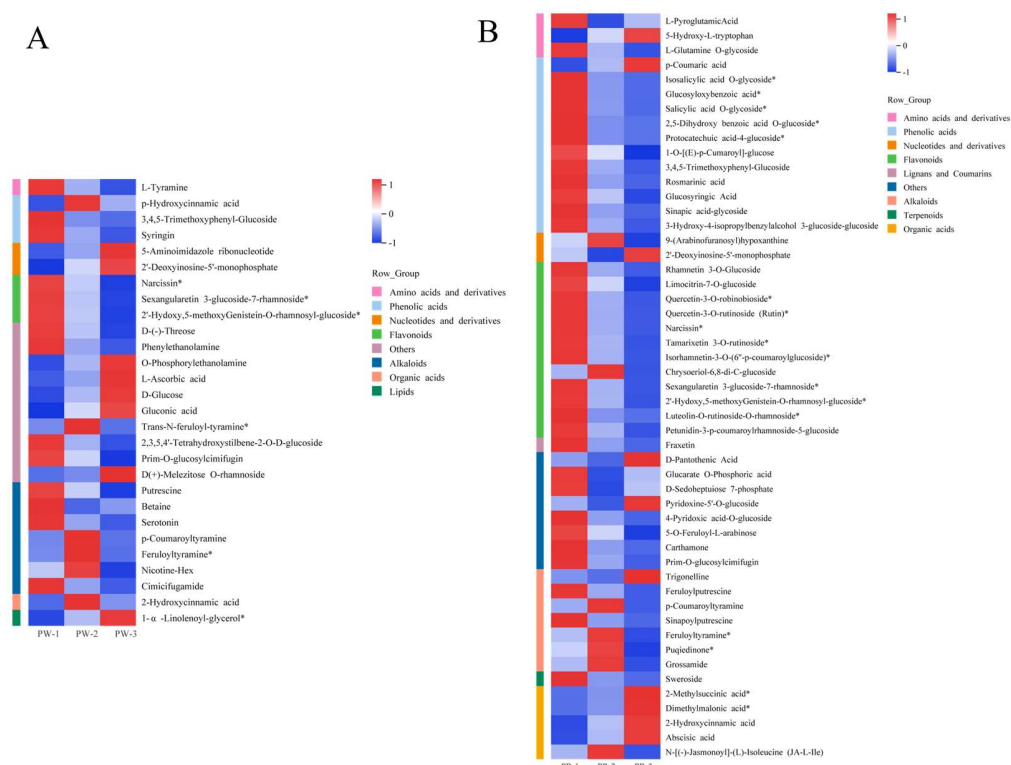


Figure S1. Screening results of shared differential metabolites in PWR and PRR at different growth years. (A) heat map of 28 shared differential metabolites in 1~3-year-old PWR, and (B) heat map of 51 shared differential metabolites in 1~3-year-old PRR.

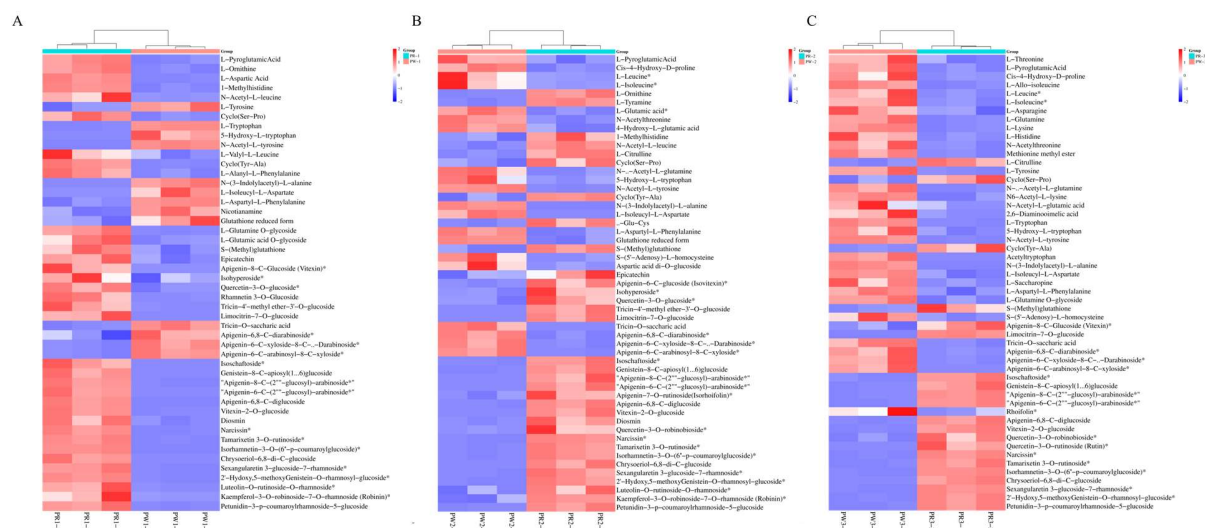


Figure S2. Relative amounts of the highest differential metabolites in different germplasms *P. kingianum*. (A-C) Heatmaps of amino acids and derivatives and flavonoids in PW-1 vs. PR-1, PW-2 vs. PR-2, and PW-3 vs. PR-3.

vs. PR-2, and PW-3 vs. PR-3, with red and blue colors representing high and low expression, respectively.

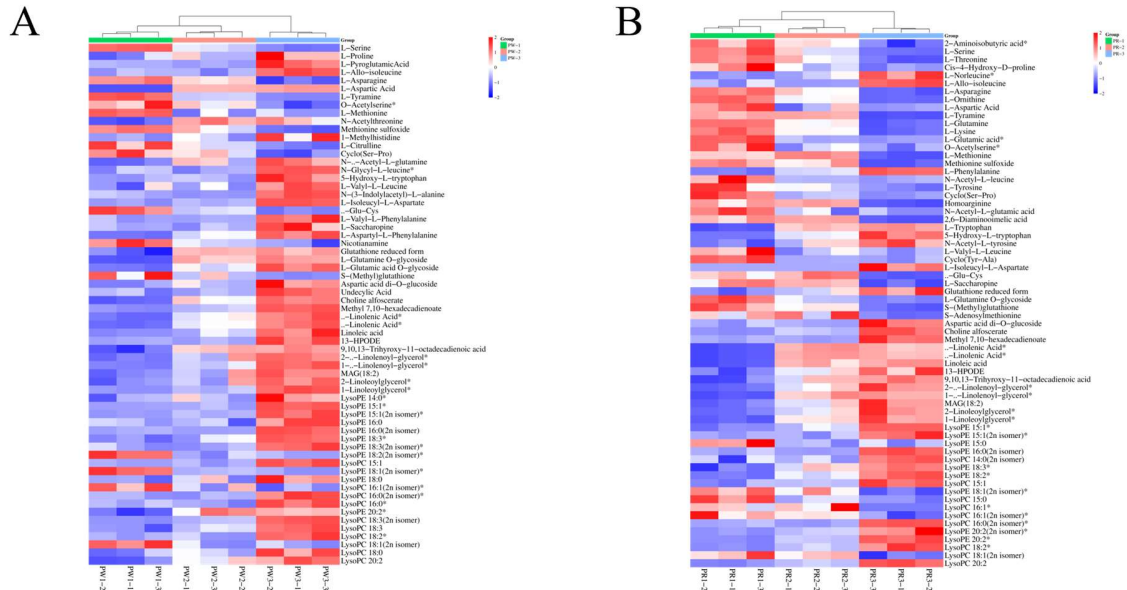


Figure S3. Relative amounts of the highest differential metabolites in different growth years *P. kingianum*. (A-B) Heatmaps of amino acids and derivatives and lipids in PW-1 VS. PW-2 VS. PW-3 and PR-1 VS. PR-2 VS. PR-3, with red and blue colors representing high and low expression, respectively.

1.2 Supplementary Tables

Table S1. Metabolites found in different germplasms and different growth years of *P. kingianum*.

Table S2. OPLS-DA model validation values of PWR and PRR in different growth years.

Table S3. Shared differential metabolites in 1~3-year-old PWR (PW-1 VS. PW-2 VS. PW-3).

Table S4. Shared differential metabolites in 1~3-year-old PRR (PR-1 VS. PR-2 VS. PR-3).