

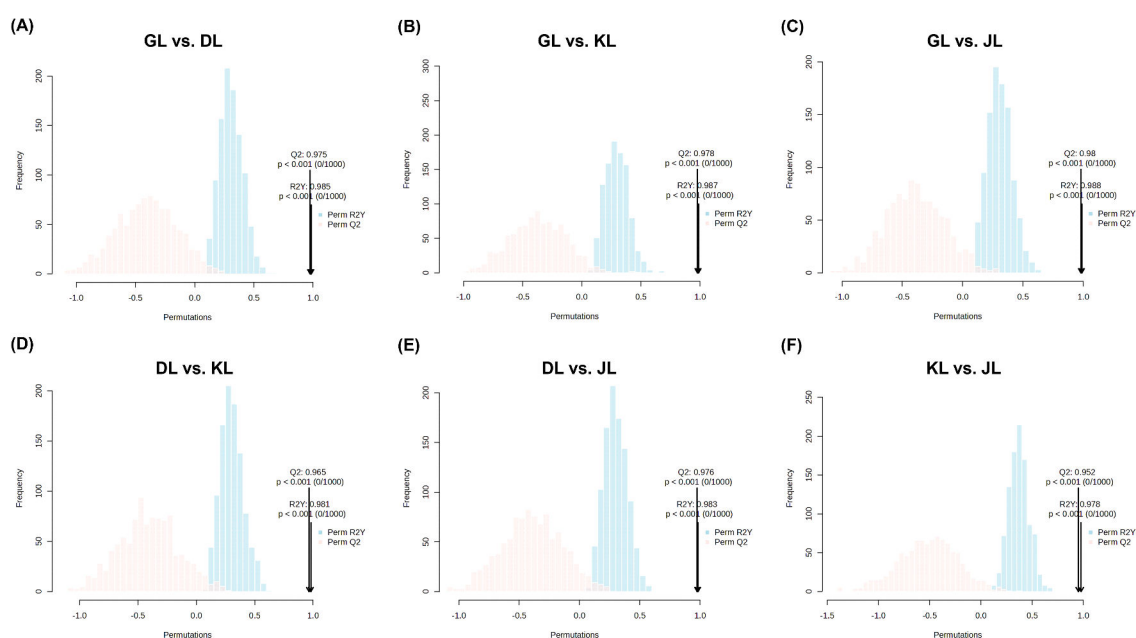


Fig. S1. Permutation test (n=1000) based on the UPLC-QTOF-MS analysis of (A) GL vs. DL, (B) GL vs. KL (C) GL vs. JL, (D) DL vs. KL, (E) DL vs. JL, and (F) KL vs. JL. All OPLS-DA models were significant by CV-ANOVA ($p < 0.001$). GL, *Neoporphyrina dentata* (Gopchang-gim); DL, *Neoporphyrina seriata* (Dol-gim); KL, *Neopyropia yezoensis* (Gimbap-gim); JL, *Neopyropia yezoensis* (Jaerae-gim)