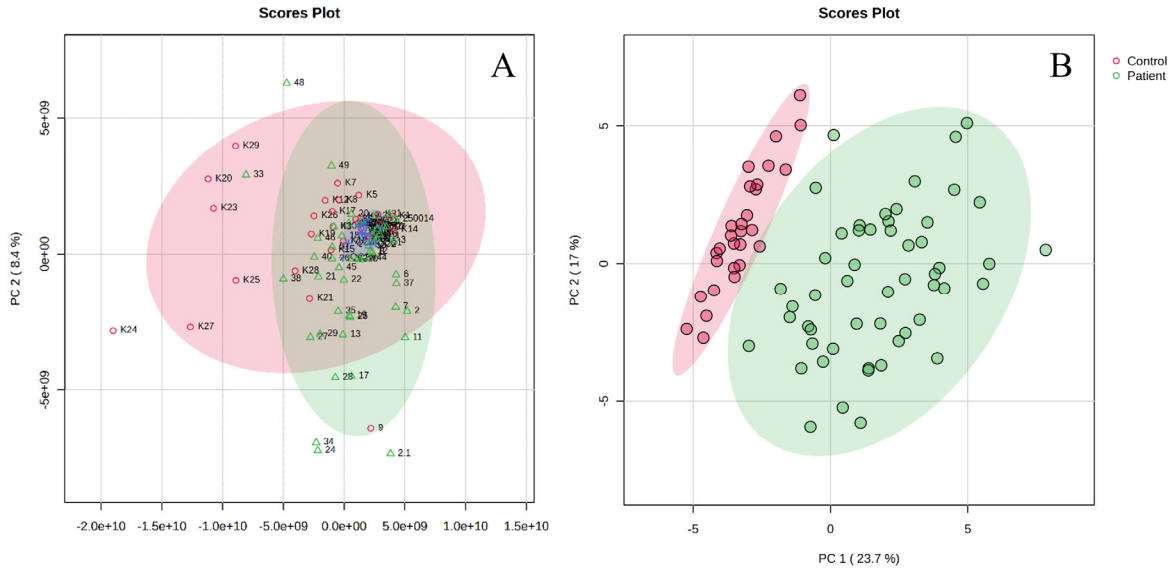
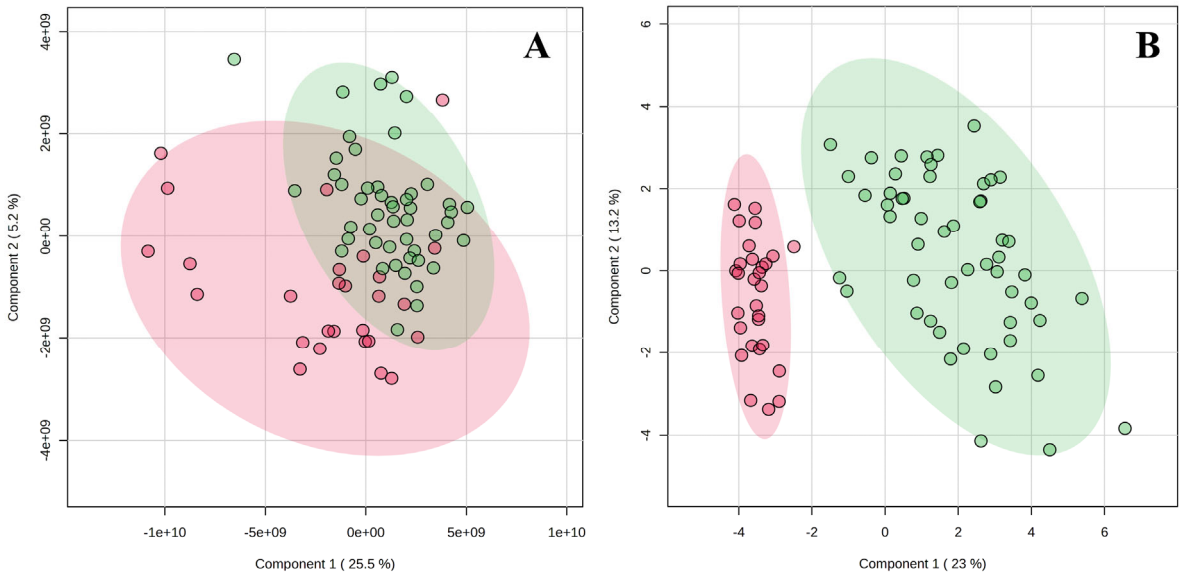


Supplemental Figure S1: PCA score plots illustrating group distribution: (A) metabolomics and (B) lipidomics profiles. Red symbols represent control subjects, while green symbols indicate pediatric patients with biotinidase deficiency. Ellipses correspond to the 95% confidence intervals.



Supplemental Figure S2. PLS-DAscore plots illustrating the separation between study groups: (A) metabolomics and (B) lipidomics profiles. Red circles represent control subjects, while green circles correspond to pediatric patients with biotinidase deficiency. Ellipses indicate the 95% confidence intervals.