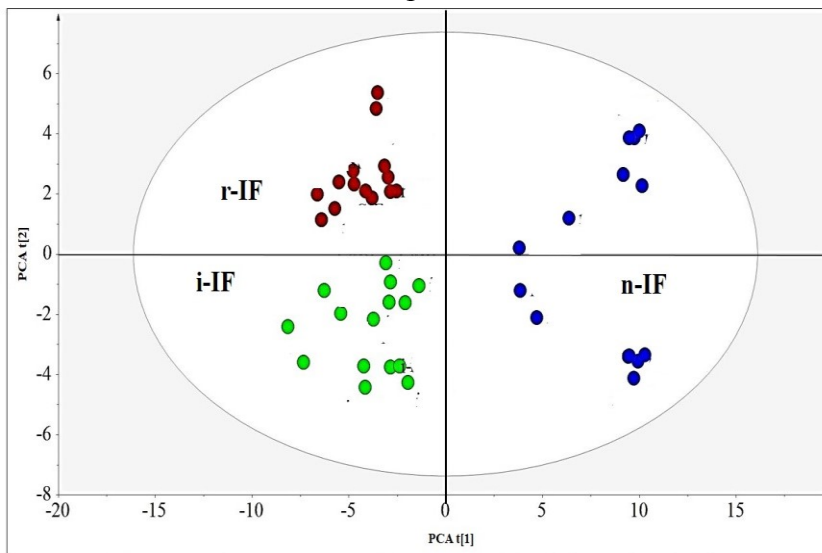
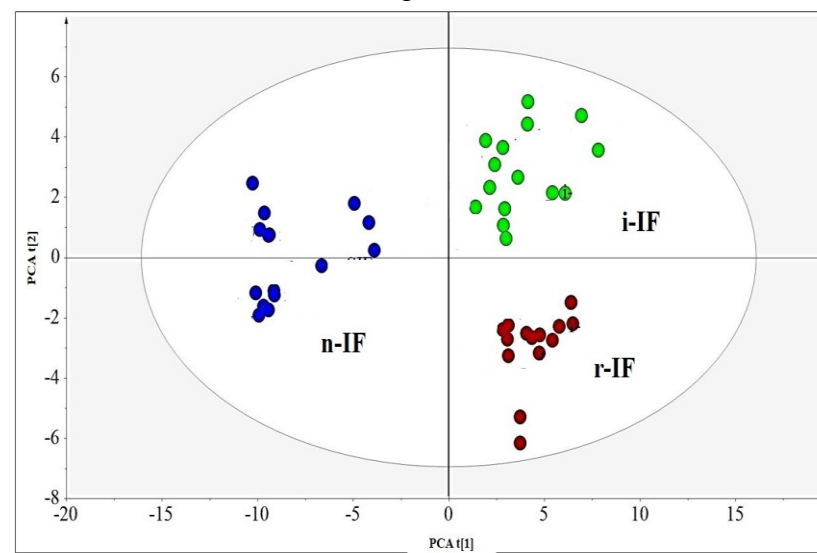


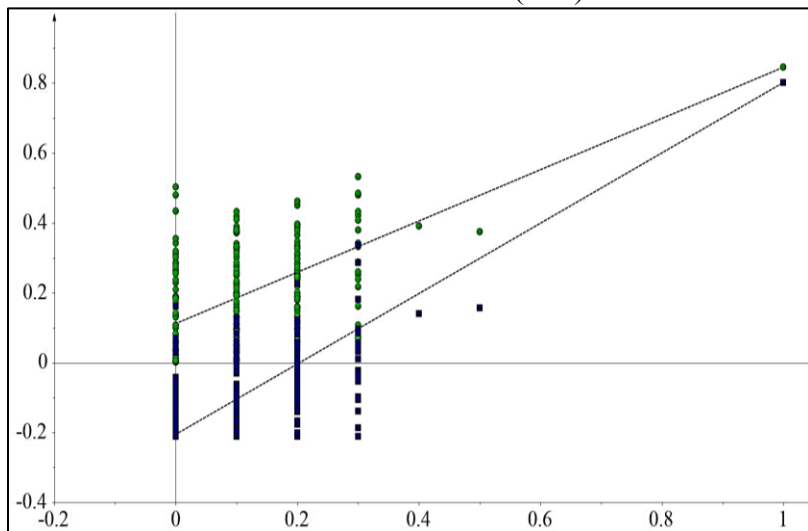
a. Scatter plot PCA-X



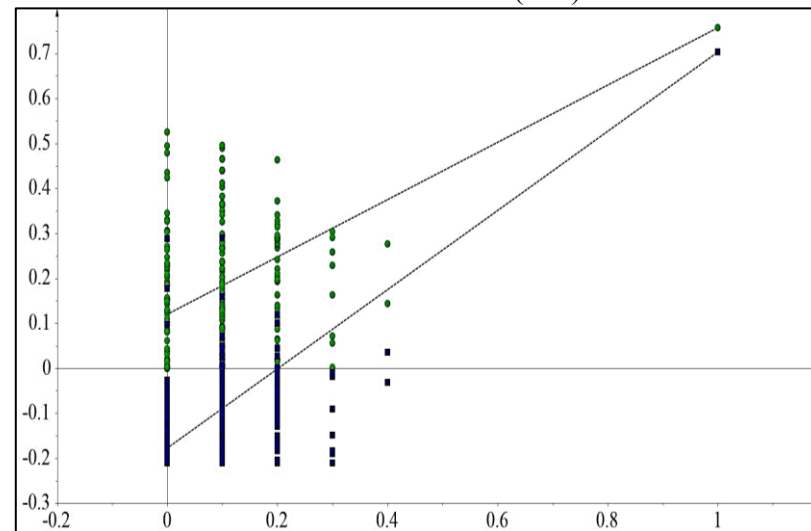
b. Scatter plot PLS-DA

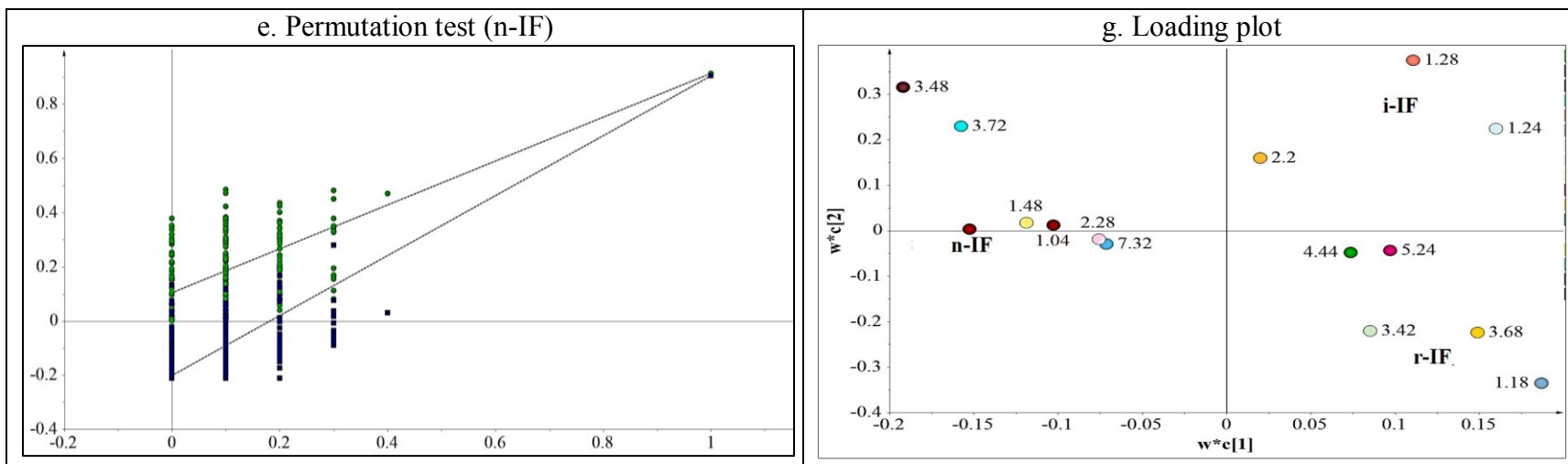


c. Permutation test (r-IF)



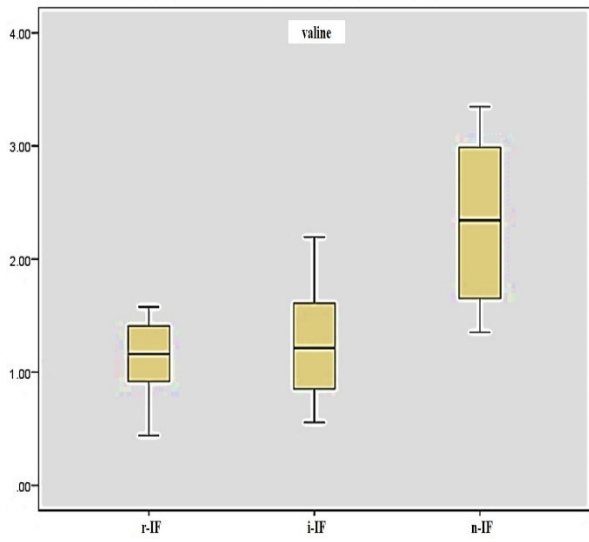
d. Permutation test (i-IF)



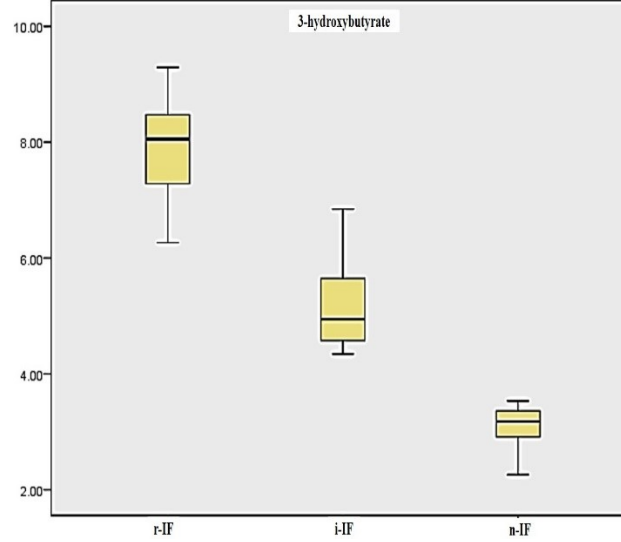


**Figure S1.** The PCA-X scatter plot, PLS-DA scatter plot, permutation test, and loading plot of the metabolomics analysis.

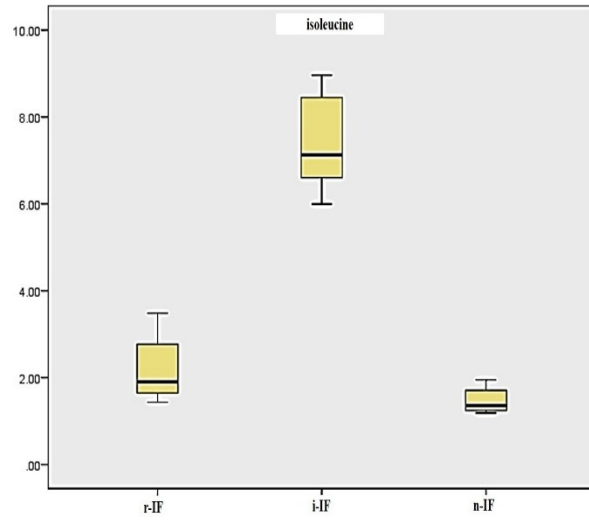
Valine



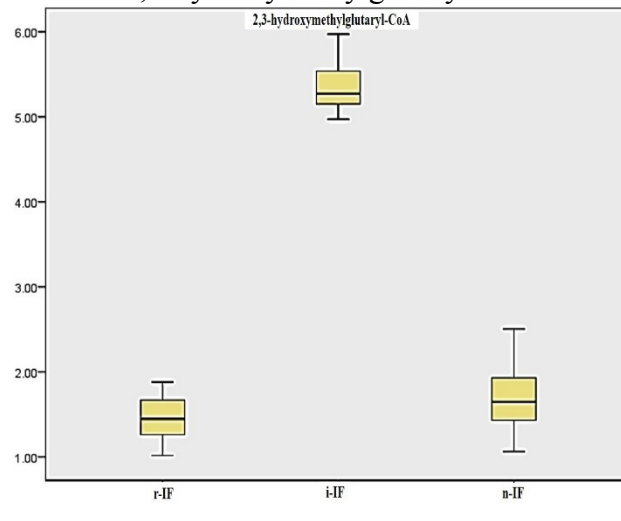
3-hydroxybutyrate



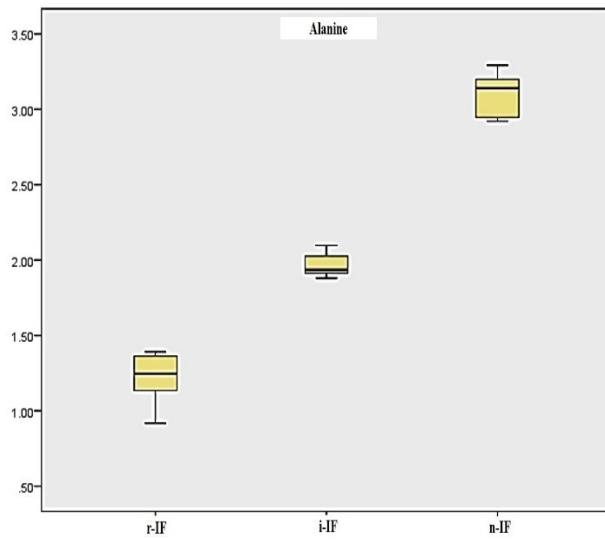
Isoleucine



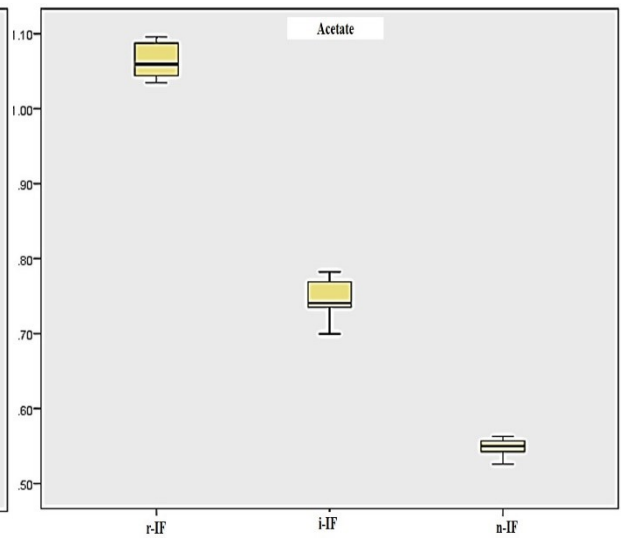
2,3-hydroxymethylglutaryl-CoA



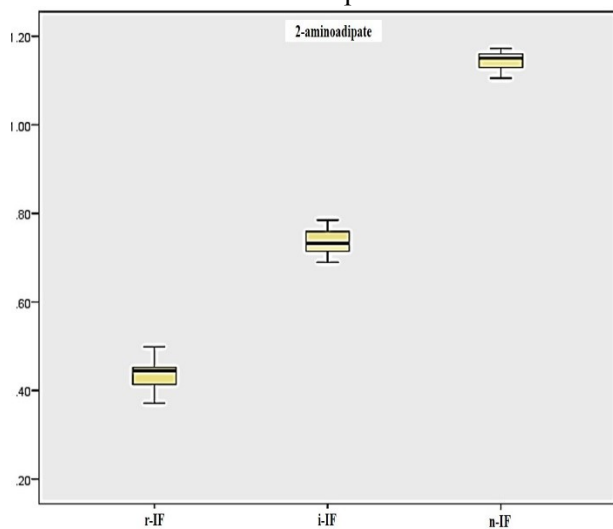
Alanine



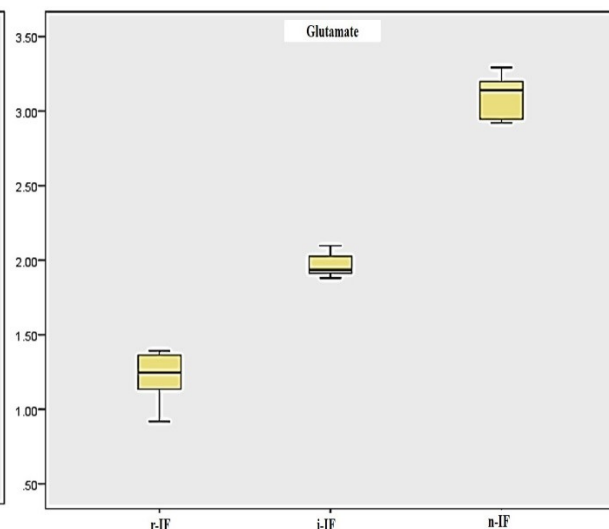
Acetate



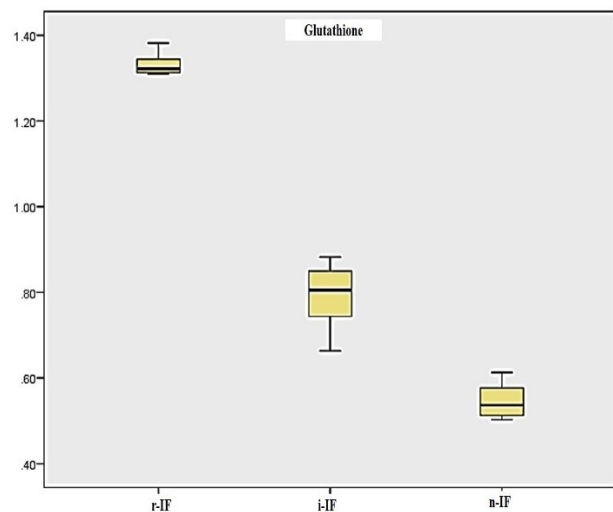
2-aminoadipate



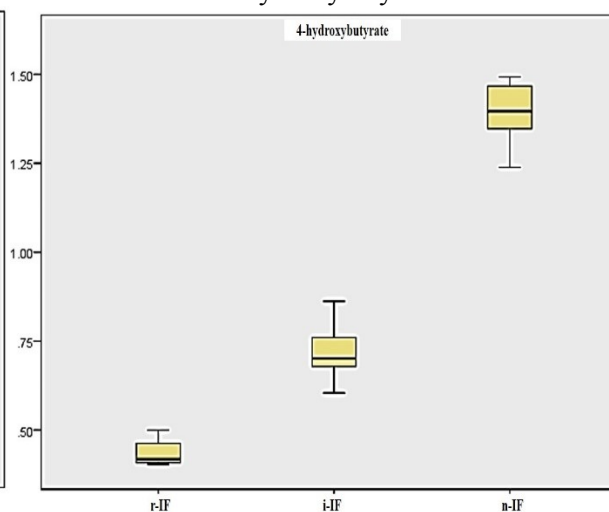
Glutamate



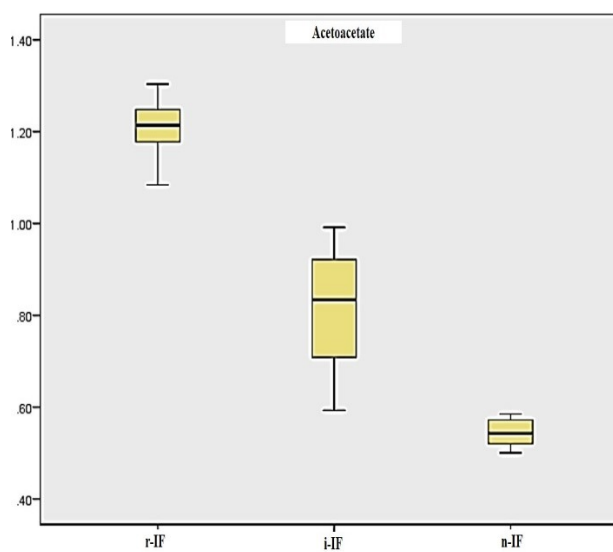
Glutathione



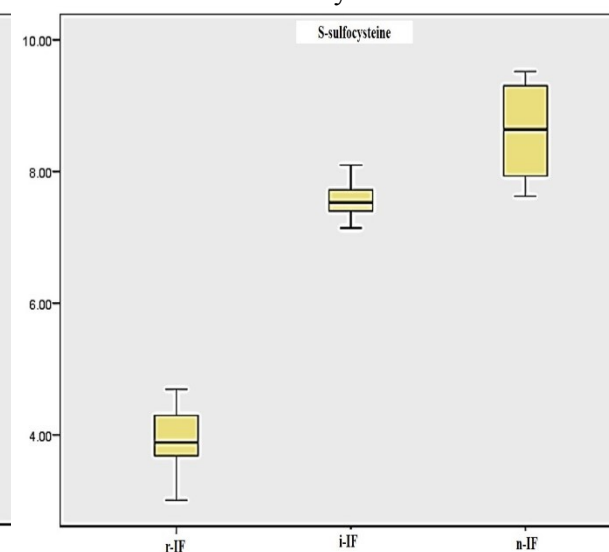
4-hydroxybutyrate



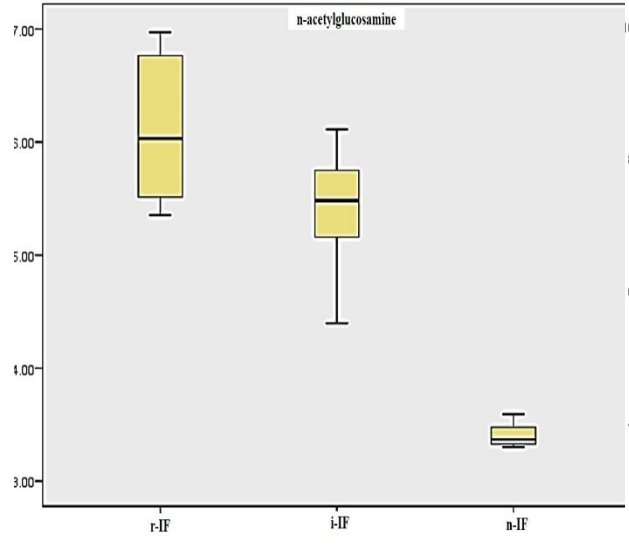
Acetoacetate



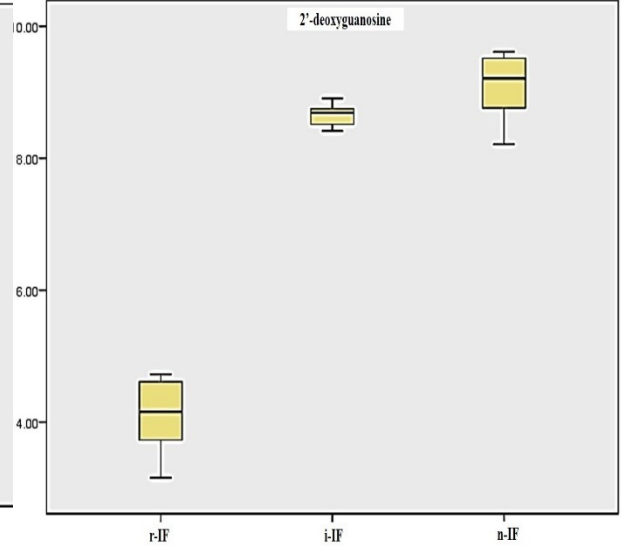
s-sulfocysteine



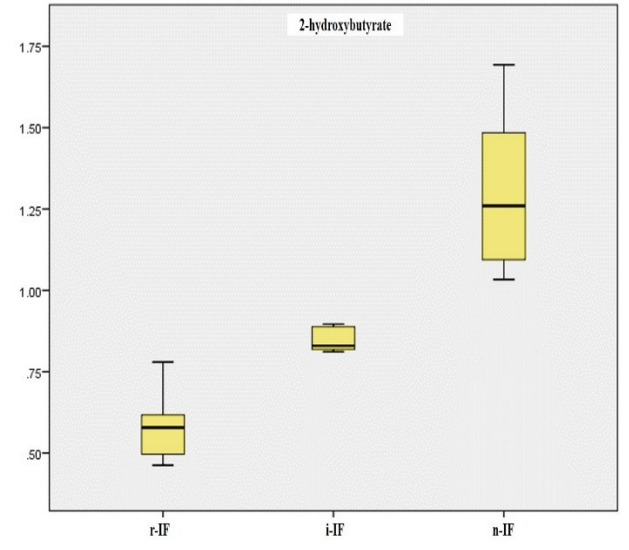
n-acetylglucosamine



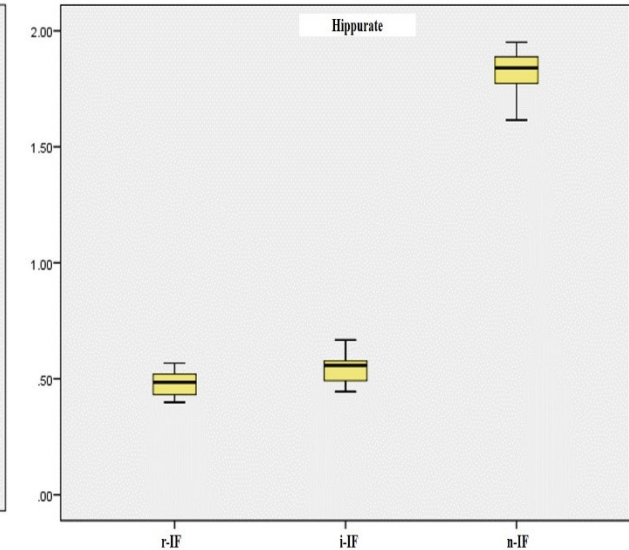
2'-deoxyguanosine



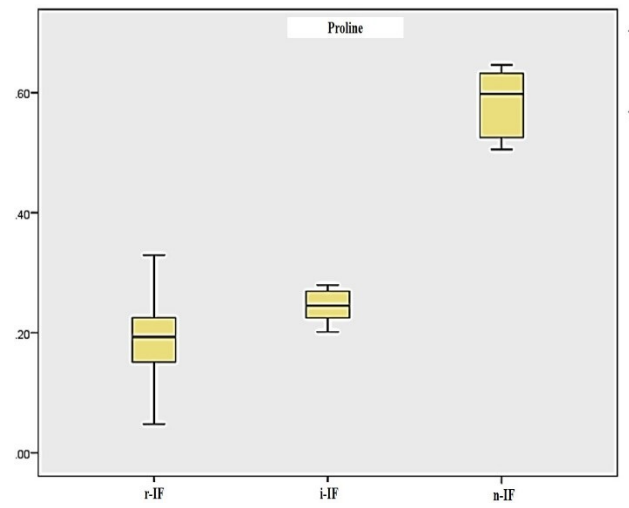
2-hydroxybutyrate



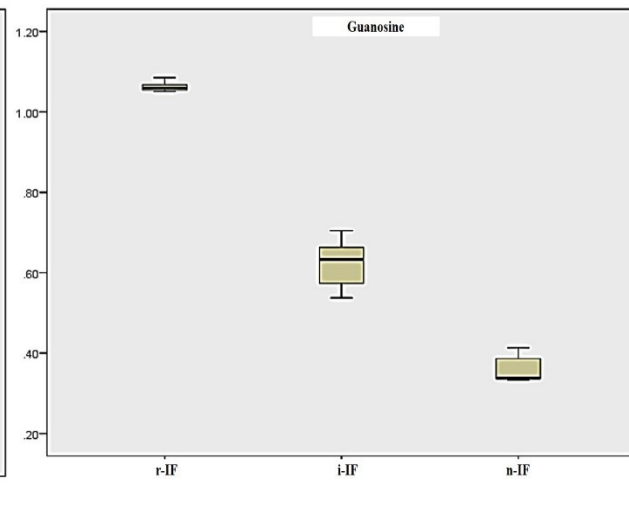
Hippurate

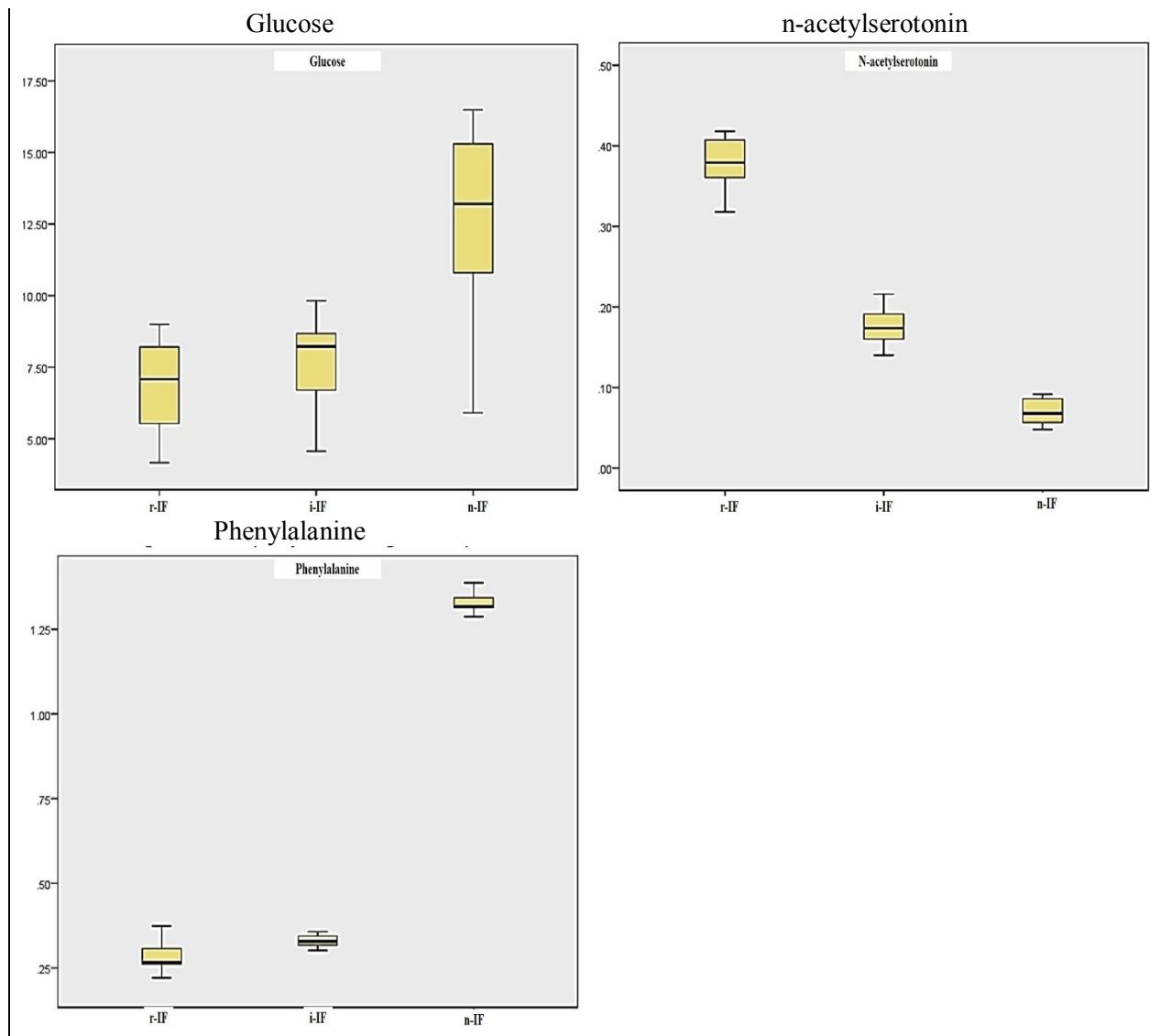


Proline



Guanosine





**Figure S2.** Box-and-whisker plots for each plasma metabolites concentration in relation with fasting status