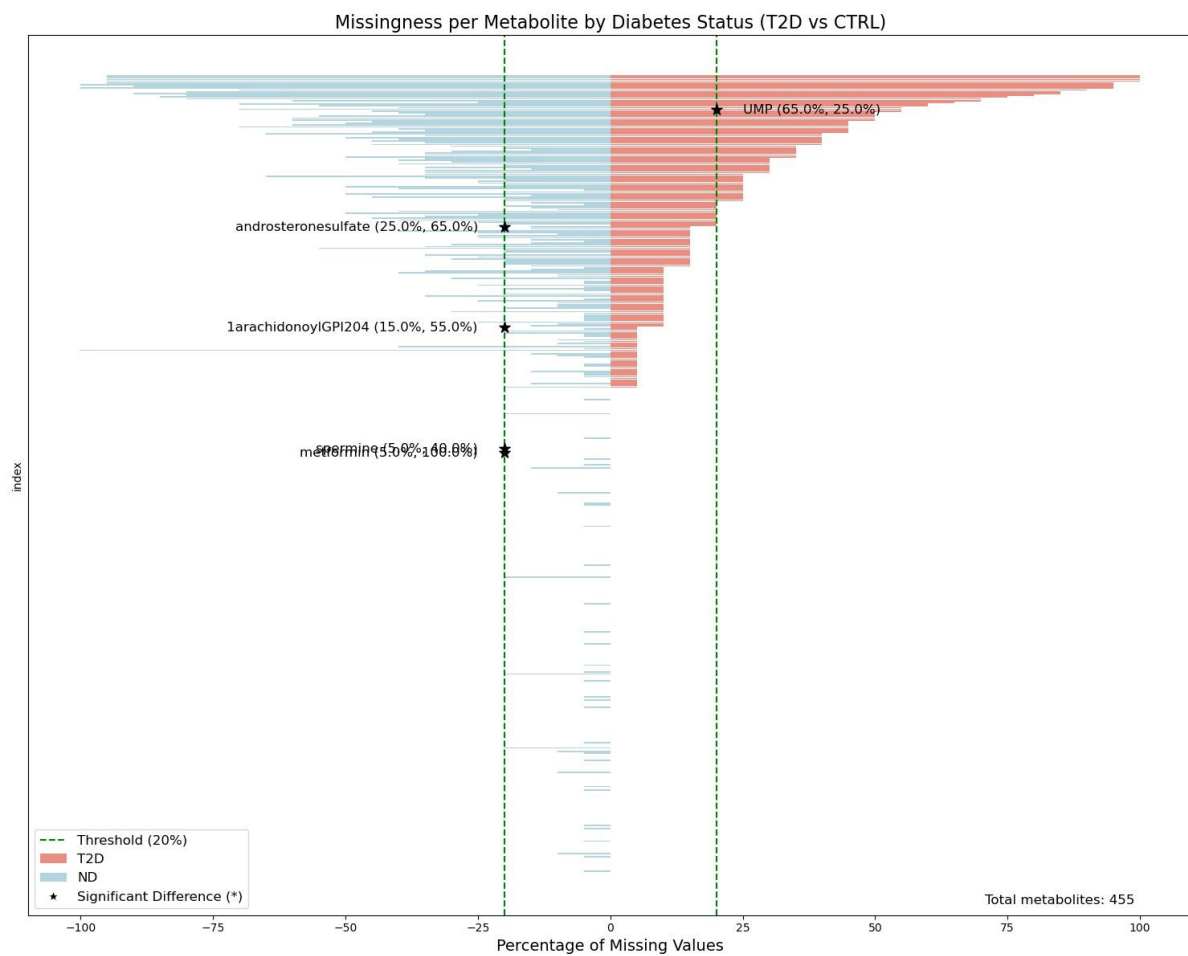
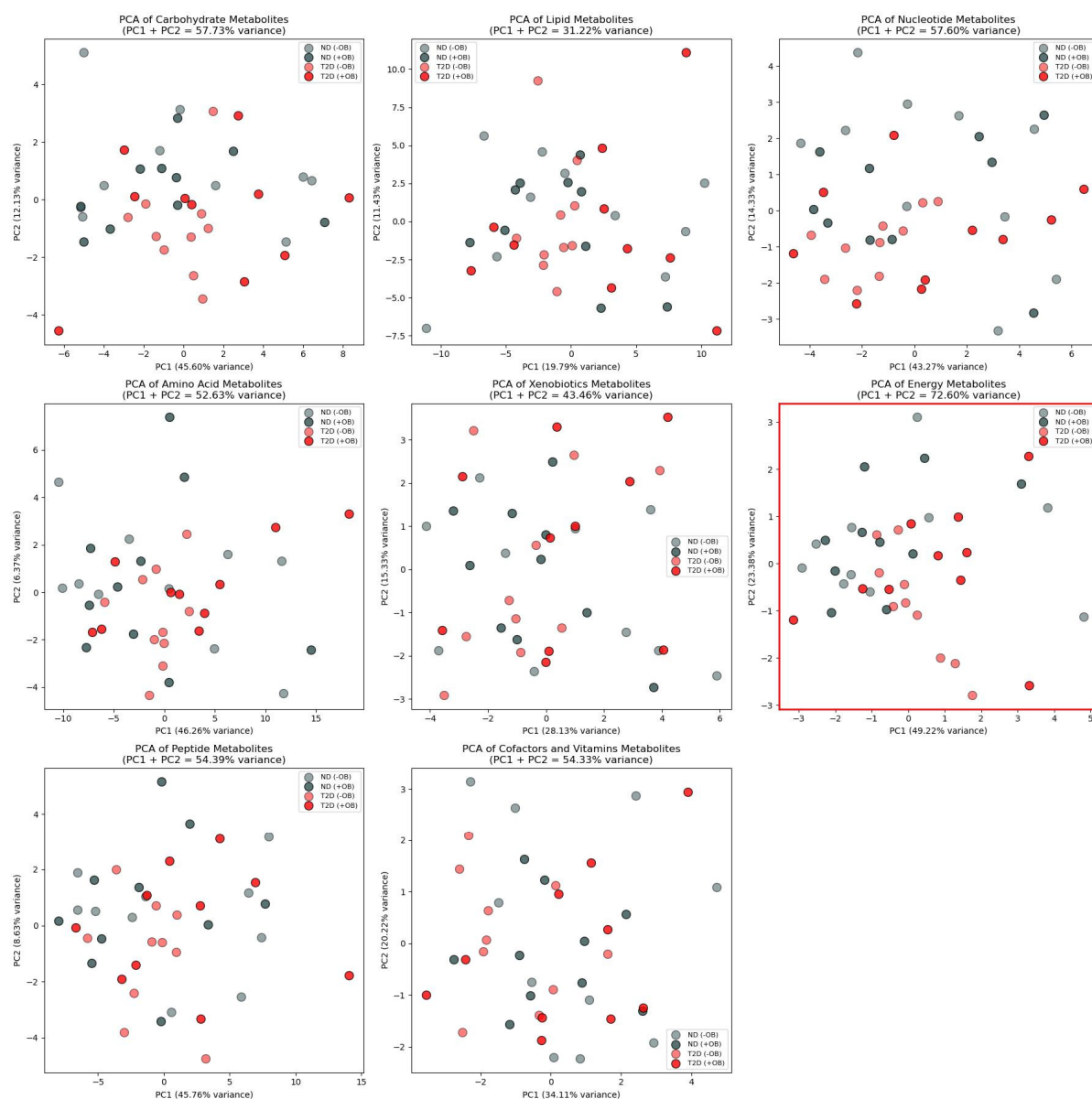


## Supplementary Figures



**Supplementary Figure S1. Missingness of metabolites in by diabetes status (T2D vs. Control).** This figure illustrates the percentage of missing values for all identified metabolites in adipose tissue samples from subjects with and without T2D. Metabolites missing in more than 20% of the samples in both the T2D and ND groups (indicated by the dashed green line) were excluded from further analyses.



**Supplementary Figure S2. Principal Component Analysis (PCA) of metabolite type categories.** In this multi-panel image, each panel represents the PCA results of a metabolite class across the four distinct groups formed by Type 2 diabetes (T2D) and obesity (OB) conditions. The groups are: i) ND (-OB): subjects without T2D and without obesity, represented with a light grey circle ii) ND (+OB): subjects without T2D and with obesity, with the darker grey circles iii) T2D (-OB): subjects with T2D and without obesity illustrated with pink circles and iv) T2D (+OB): subject both T2D and obesity, shown as red circles. Principal components 1 and 2, explaining the most variance percentage, are shown in axes x and y respectively.

The clustering of points indicates similarity in metabolite profiles among the samples. Annotated with a red border, the PCA of the metabolites within the Energy category, show a separation of the subjects with T2D without obesity from the other groups that reflects the differences in their metabolite profiles.