

Figure 1: Heatmap showing the relative abundance of 30 metabolites and 30 immune markers across 30 samples. The samples are grouped into three main clusters: Leucine (K01873, K14260, K01869, K01870, K00052, K01649, K01703, K01704, K03719, K11250), Diphos (K00053, K00826, K01652, K01653, K01687, K01754, K11258), and Threonine (K01873, K14260, K01869, K01870, K00052, K01649, K01703, K01704, K03719, K11250). The metabolites are listed on the right, and the immune markers are listed on the left. The color scale ranges from 0 (blue) to 1 (red).