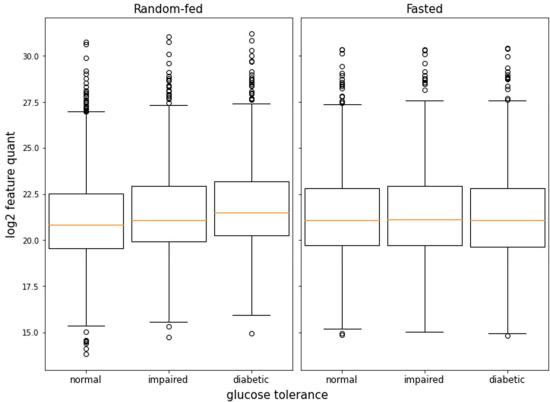


**Figure 1:** PCA plots with average feature quant per animal, per feeding type. **(D)** Colored by animal. **(E)** Colored by glucose tolerance.

## Random-fed vs. fasted feature quant by glucose tolerance



**Figure 2:** Comparing average log2 feature quant of all lipid features within each animal's glucose tolerance, separated by feeding type.

## Lipid Class and Glucose Tolerance Random-fed vs. Fasted Average of all 3 weeks

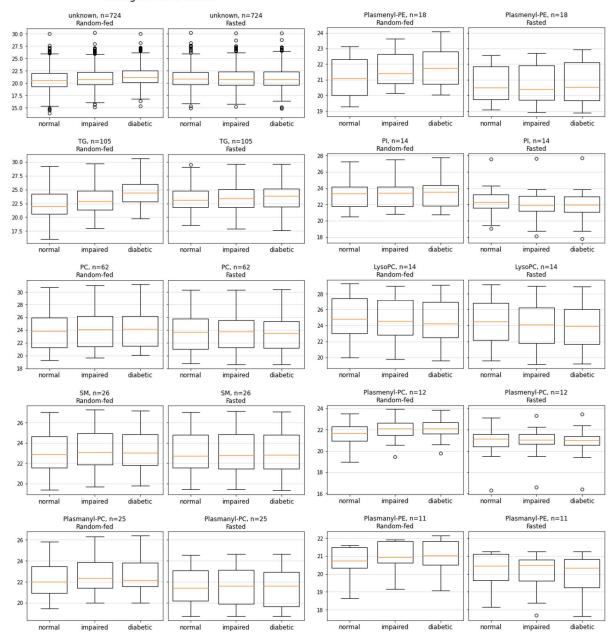


Figure 3: Boxplots separated by lipid class (rows) and on feeding type, comparing glucose tolerance.