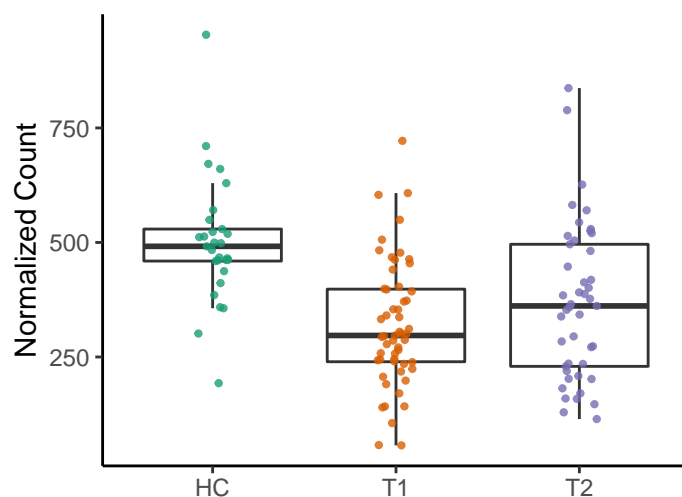


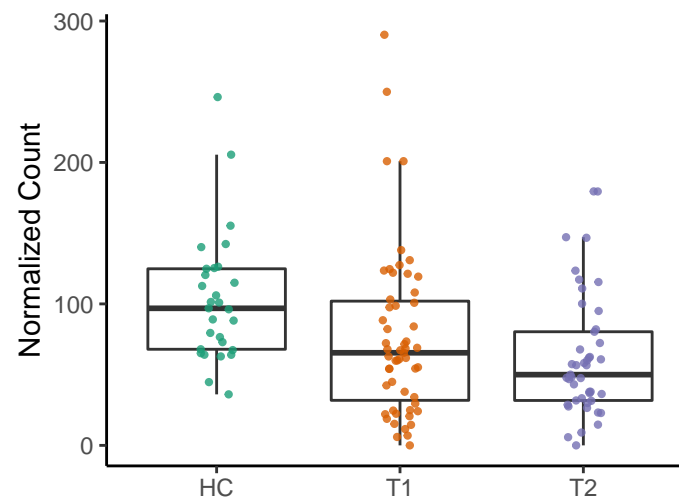
### DTDPRHAMSYN–PWY: dTDP–L–rhan

HC vs. T1 adjusted  $p = 3.1\text{e-}05$   
 HC vs. T2 adjusted  $p = 0.03$   
 T1 vs. T2 adjusted  $p = 0.16$



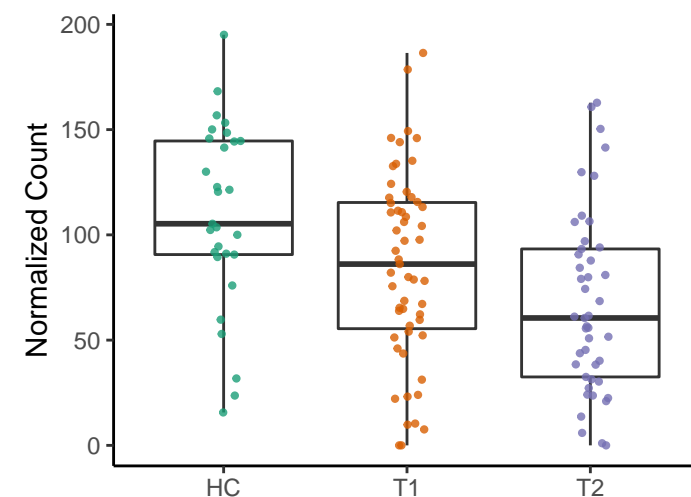
### HSERMETANA–PWY: L–methionine bi

HC vs. T1 adjusted  $p = 0.081$   
 HC vs. T2 adjusted  $p = 0.03$   
 T1 vs. T2 adjusted  $p = 0.49$



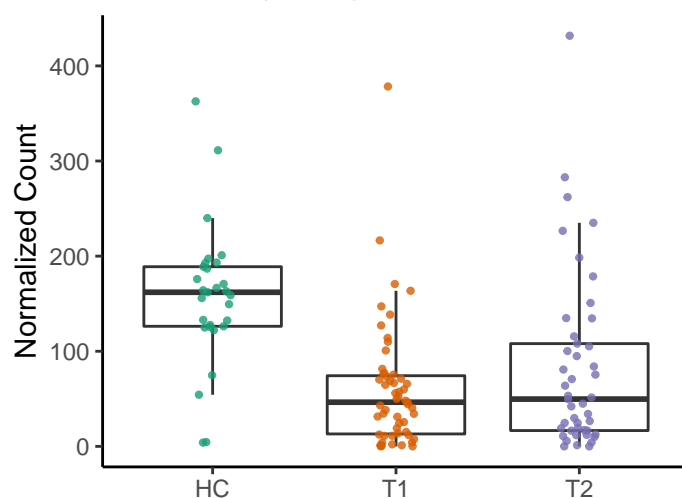
### PRPP–PWY: superpathway of histidine

HC vs. T1 adjusted  $p = 0.074$   
 HC vs. T2 adjusted  $p = 0.03$   
 T1 vs. T2 adjusted  $p = 0.17$



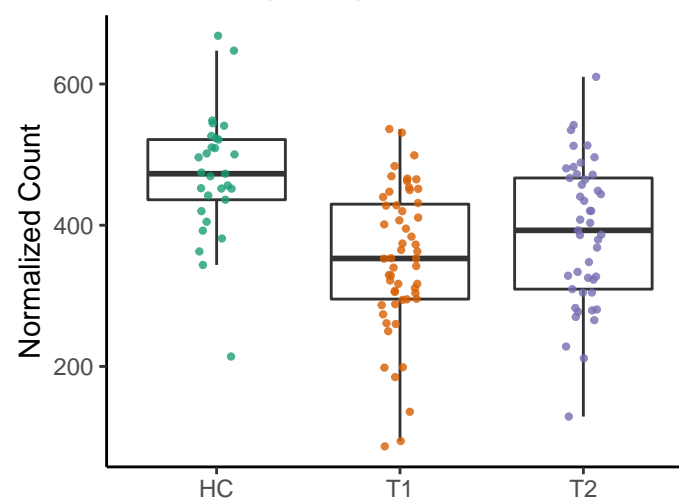
### PWY–5177: glutaryl–CoA degradation

HC vs. T1 adjusted  $p = 2.1\text{e-}05$   
 HC vs. T2 adjusted  $p = 0.03$   
 T1 vs. T2 adjusted  $p = 0.17$



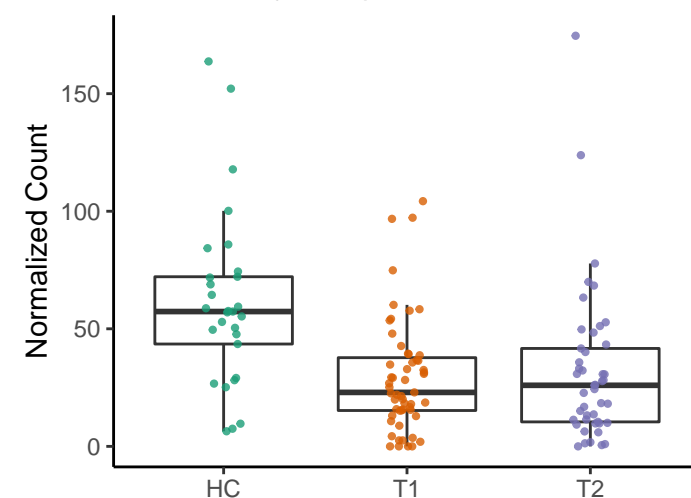
### TRNA–CHARGING–PWY: tRNA chargi

HC vs. T1 adjusted  $p = 3.1\text{e-}05$   
 HC vs. T2 adjusted  $p = 0.03$   
 T1 vs. T2 adjusted  $p = 0.17$



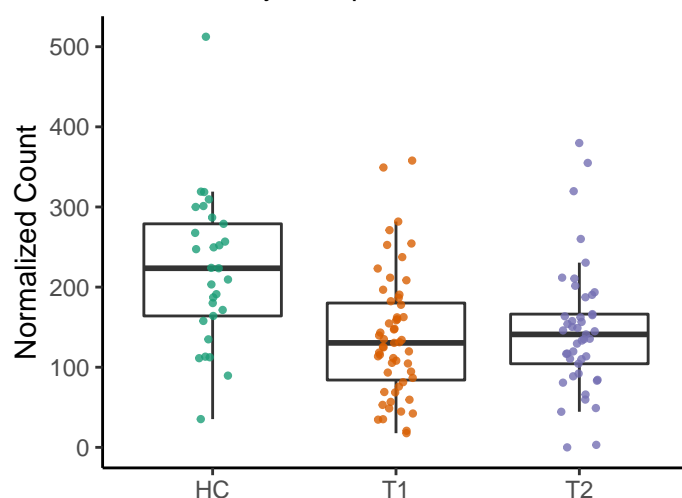
### POLYAMSYN–PWY: superpathway of p

HC vs. T1 adjusted  $p = 0.0018$   
 HC vs. T2 adjusted  $p = 0.037$   
 T1 vs. T2 adjusted  $p = 0.64$



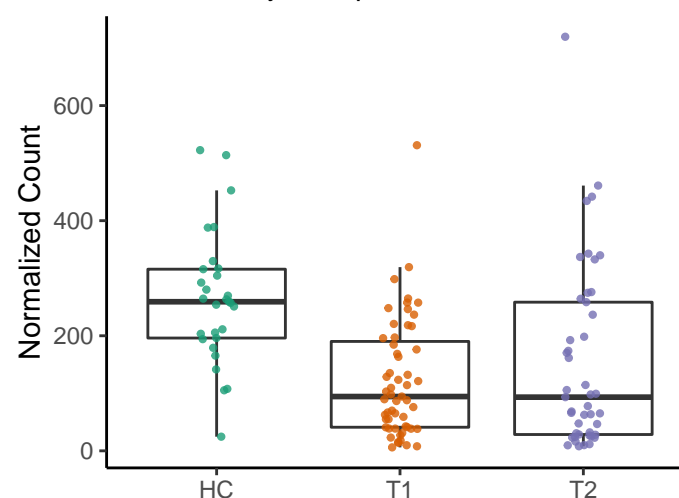
### PWY–5347: superpathway of L–methio

HC vs. T1 adjusted  $p = 0.002$   
 HC vs. T2 adjusted  $p = 0.037$   
 T1 vs. T2 adjusted  $p = 0.59$



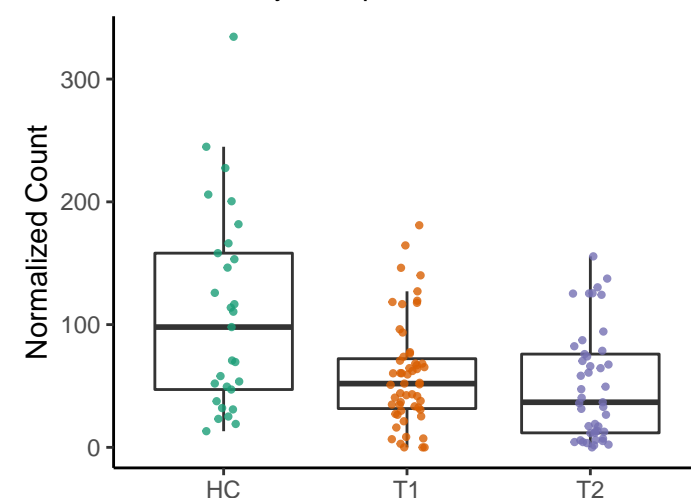
### PWY–7242: D–fructuronate degradatio

HC vs. T1 adjusted  $p = 5.1\text{e-}05$   
 HC vs. T2 adjusted  $p = 0.037$   
 T1 vs. T2 adjusted  $p = 0.23$



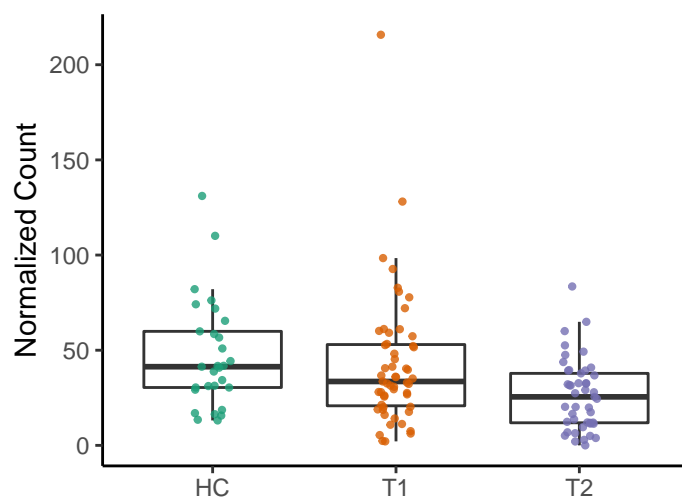
### PWY0–781: aspartate superpathway

HC vs. T1 adjusted  $p = 0.024$   
 HC vs. T2 adjusted  $p = 0.037$   
 T1 vs. T2 adjusted  $p = 0.79$



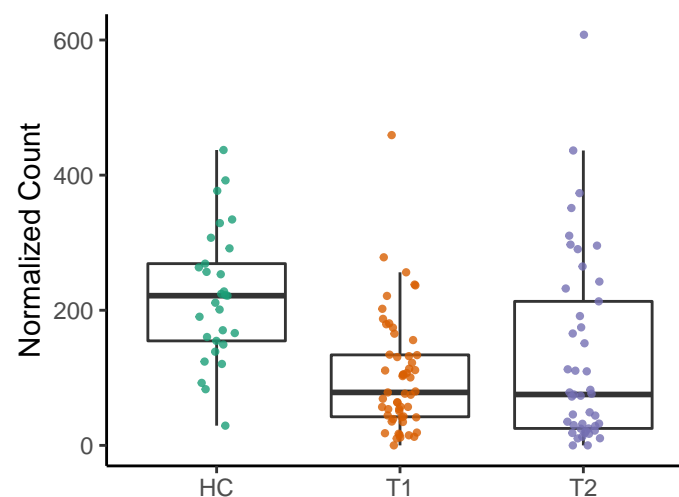
### TCA: TCA cycle I (prokaryotic)

HC vs. T1 adjusted  $p = 0.61$   
HC vs. T2 adjusted  $p = 0.037$   
T1 vs. T2 adjusted  $p = 0.16$



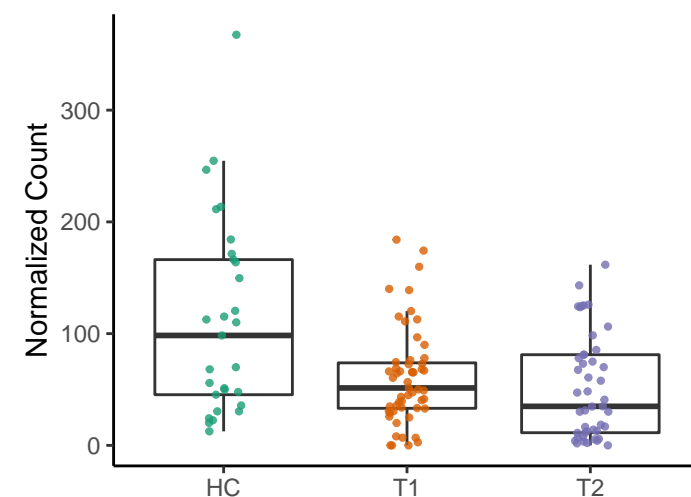
### GLUCUROCAT-PWY: superpathway of

HC vs. T1 adjusted  $p = 5.8e-05$   
HC vs. T2 adjusted  $p = 0.042$   
T1 vs. T2 adjusted  $p = 0.23$



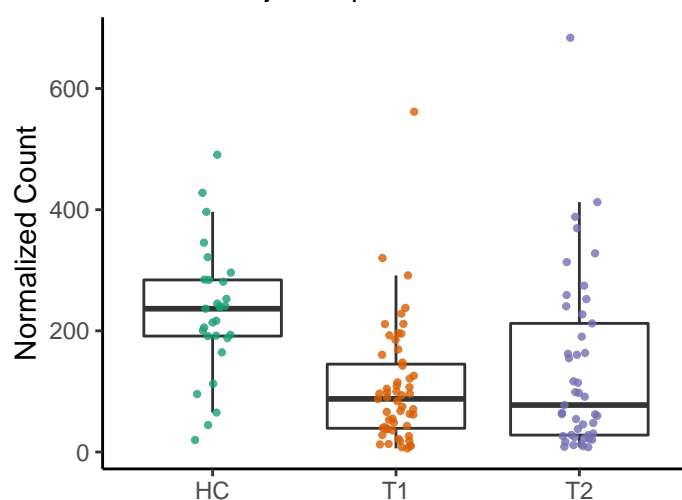
### P4-PWY: superpathway of L-lysine, L-

HC vs. T1 adjusted  $p = 0.028$   
HC vs. T2 adjusted  $p = 0.042$   
T1 vs. T2 adjusted  $p = 0.78$



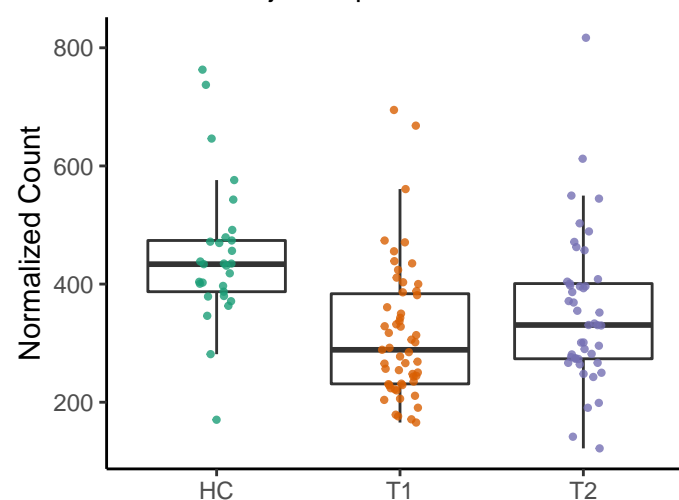
### PWY-6507: 4-deoxy-L-threo-hex-4-

HC vs. T1 adjusted  $p = 0.00012$   
HC vs. T2 adjusted  $p = 0.042$   
T1 vs. T2 adjusted  $p = 0.23$



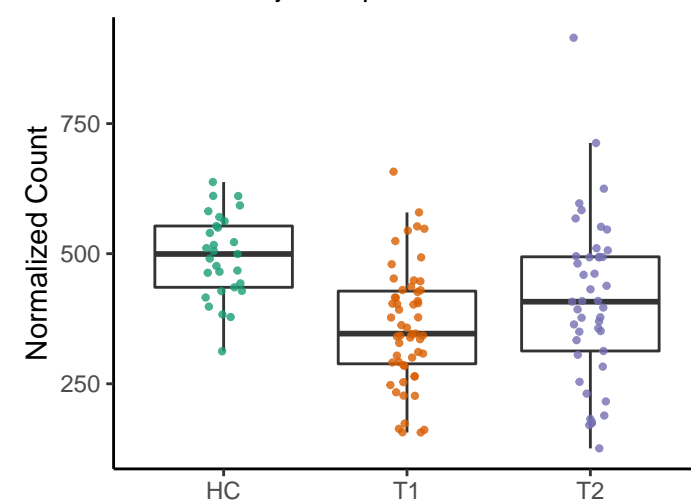
### PWY-3001: superpathway of L-isoleuc

HC vs. T1 adjusted  $p = 0.00023$   
HC vs. T2 adjusted  $p = 0.047$   
T1 vs. T2 adjusted  $p = 0.16$



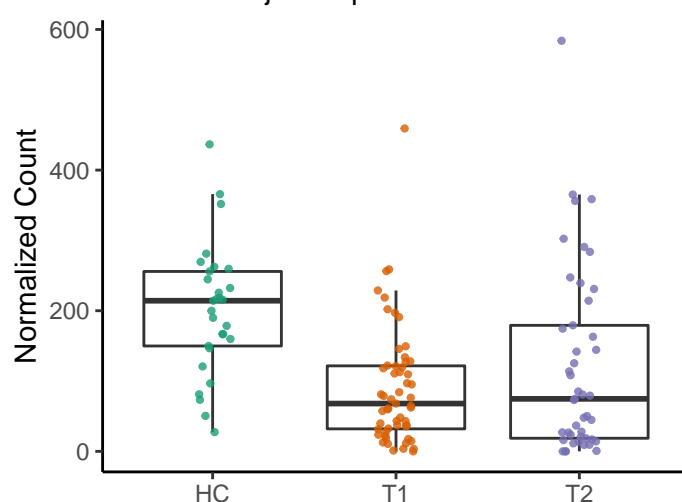
### CALVIN-PWY: Calvin-Benson-Bassha

HC vs. T1 adjusted  $p = 2.4e-06$   
HC vs. T2 adjusted  $p = 0.055$   
T1 vs. T2 adjusted  $p = 0.17$



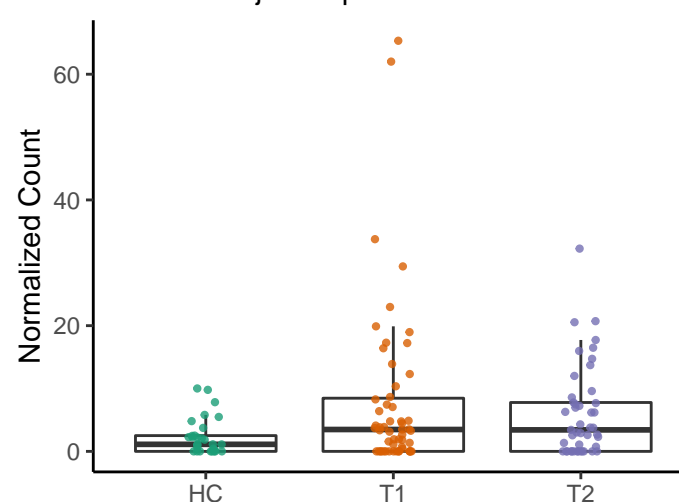
### GALACT-GLUCUROCAT-PWY: super

HC vs. T1 adjusted  $p = 7.1e-05$   
HC vs. T2 adjusted  $p = 0.055$   
T1 vs. T2 adjusted  $p = 0.18$



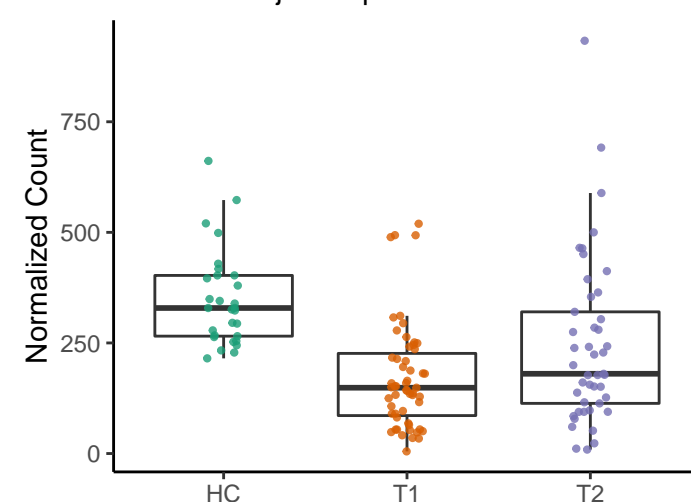
### PWY-5464: superpathway of cytosolic c

HC vs. T1 adjusted  $p = 0.024$   
HC vs. T2 adjusted  $p = 0.062$   
T1 vs. T2 adjusted  $p = 0.73$



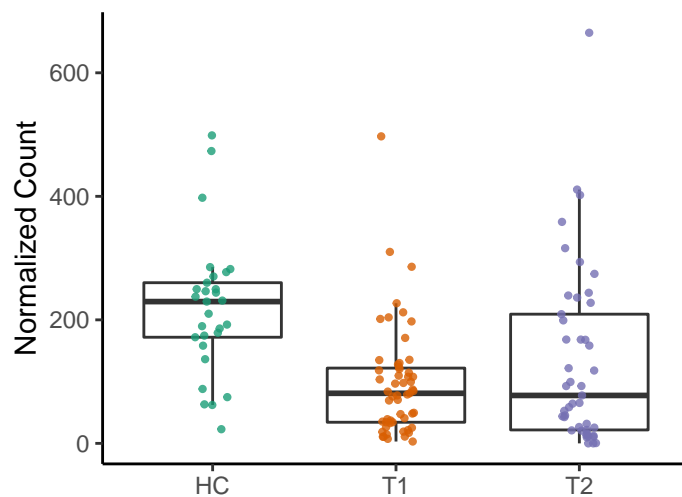
### PWY-621: sucrose degradation III (suc

HC vs. T1 adjusted  $p = 1.2e-06$   
HC vs. T2 adjusted  $p = 0.063$   
T1 vs. T2 adjusted  $p = 0.16$



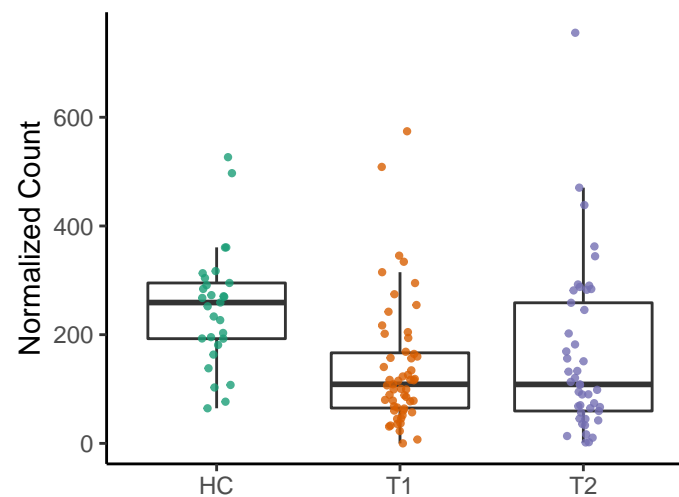
### GALACTUROCAT-PWY: D-galacturon

HC vs. T1 adjusted  $p = 0.00017$   
HC vs. T2 adjusted  $p = 0.068$   
T1 vs. T2 adjusted  $p = 0.17$



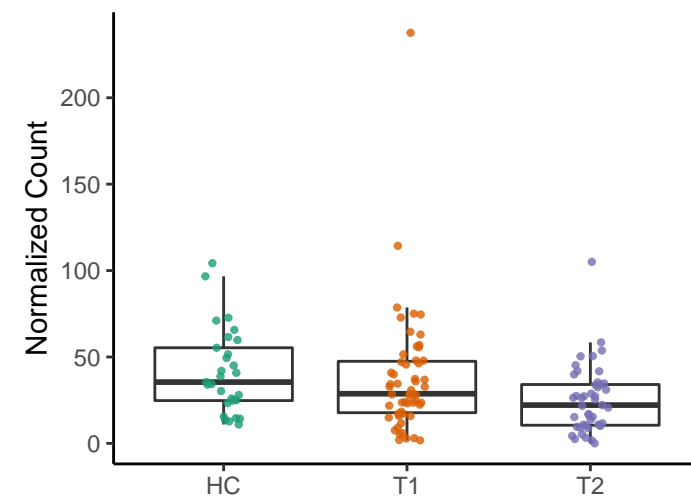
### GLCMANNANAUT-PWY: superpathwa

HC vs. T1 adjusted  $p = 0.00076$   
HC vs. T2 adjusted  $p = 0.068$   
T1 vs. T2 adjusted  $p = 0.24$



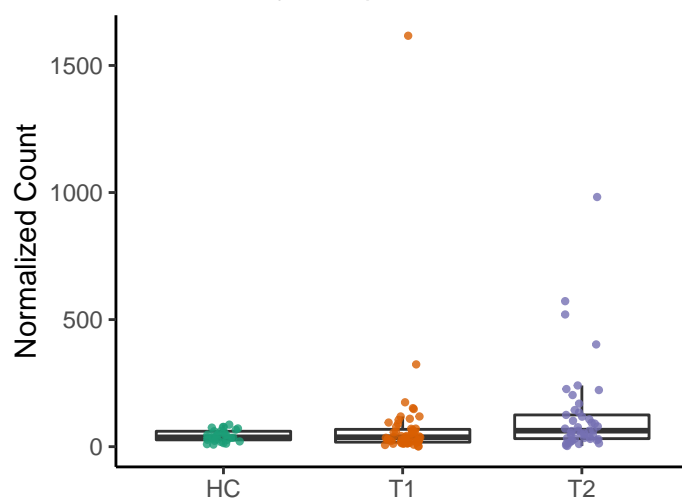
### PWY-6969: TCA cycle V (2-oxoglutar

HC vs. T1 adjusted  $p = 0.67$   
HC vs. T2 adjusted  $p = 0.068$   
T1 vs. T2 adjusted  $p = 0.17$



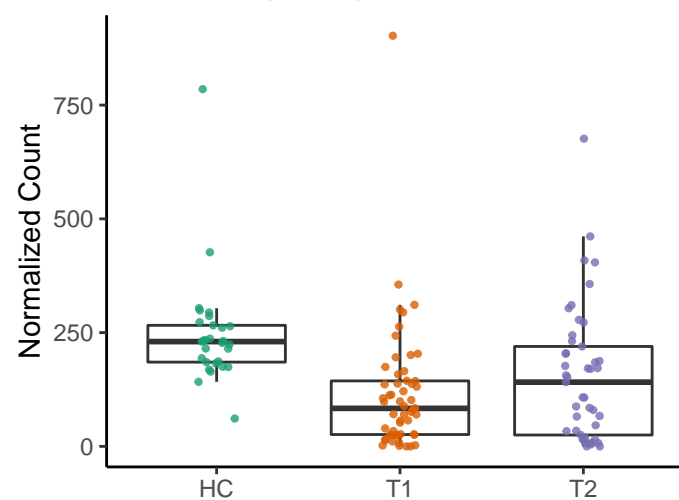
### PWY-7237: myo-, chiro- and scillo-ir

HC vs. T1 adjusted  $p = 0.34$   
HC vs. T2 adjusted  $p = 0.068$   
T1 vs. T2 adjusted  $p = 0.59$



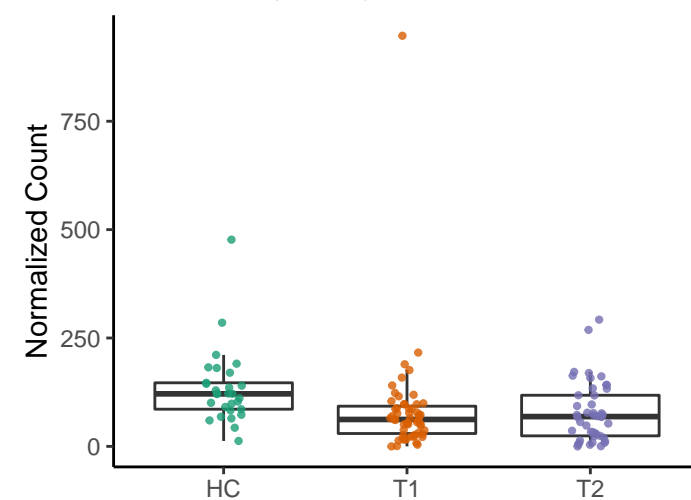
### COBALSYN-PWY: adenosylcobalamin

HC vs. T1 adjusted  $p = 7e-04$   
HC vs. T2 adjusted  $p = 0.069$   
T1 vs. T2 adjusted  $p = 0.16$



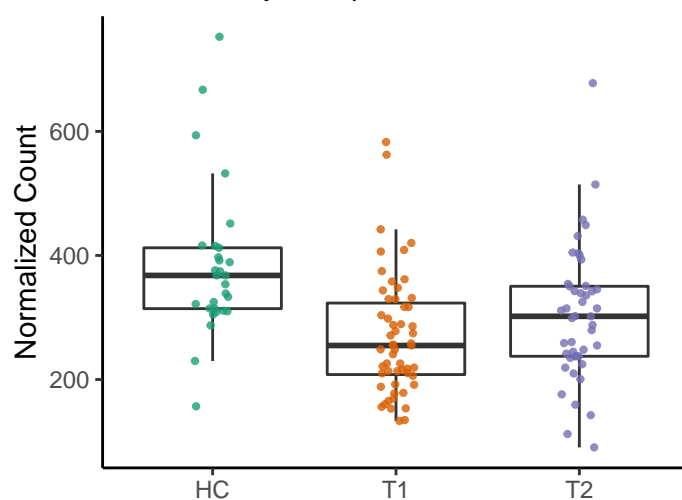
### PWY-6305: putrescine biosynthesis IV

HC vs. T1 adjusted  $p = 0.11$   
HC vs. T2 adjusted  $p = 0.071$   
T1 vs. T2 adjusted  $p = 0.29$



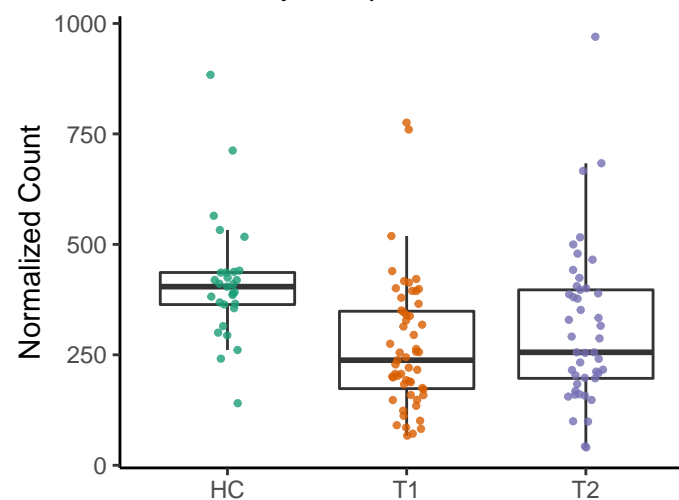
### THRESYN-PWY: superpathway of L-tl

HC vs. T1 adjusted  $p = 0.00099$   
HC vs. T2 adjusted  $p = 0.071$   
T1 vs. T2 adjusted  $p = 0.16$



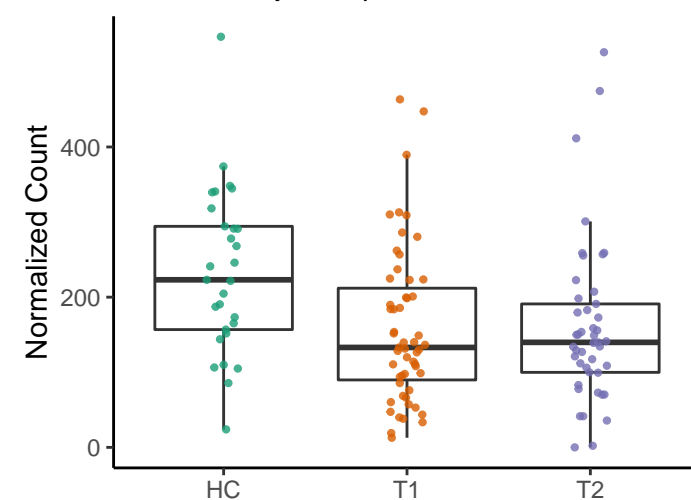
### PWY-7357: thiamin formation from py

HC vs. T1 adjusted  $p = 0.00057$   
HC vs. T2 adjusted  $p = 0.074$   
T1 vs. T2 adjusted  $p = 0.16$



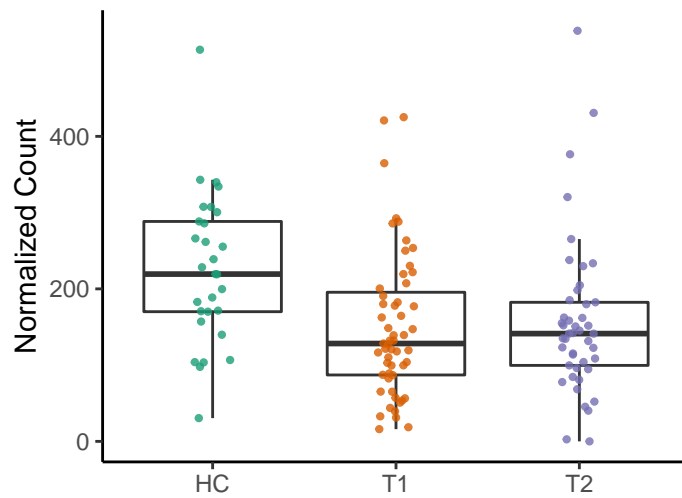
### MET-SAM-PWY: superpathway of S-a

HC vs. T1 adjusted  $p = 0.024$   
HC vs. T2 adjusted  $p = 0.074$   
T1 vs. T2 adjusted  $p = 0.86$



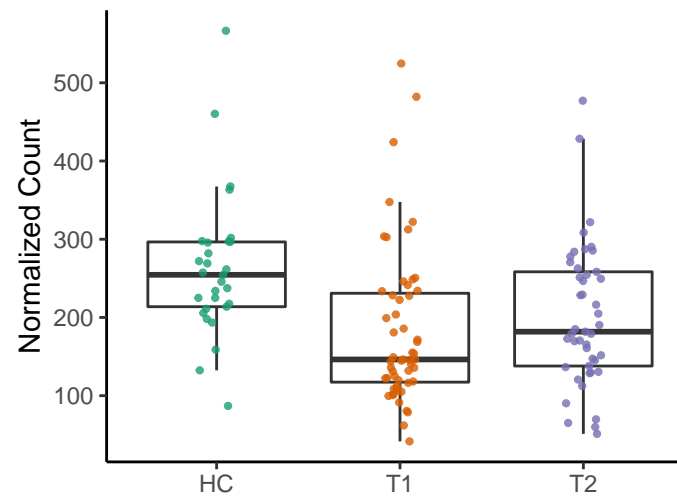
### METSYN-PWY: L-homoserine and L-

HC vs. T1 adjusted  $p = 0.012$   
 HC vs. T2 adjusted  $p = 0.074$   
 T1 vs. T2 adjusted  $p = 0.67$



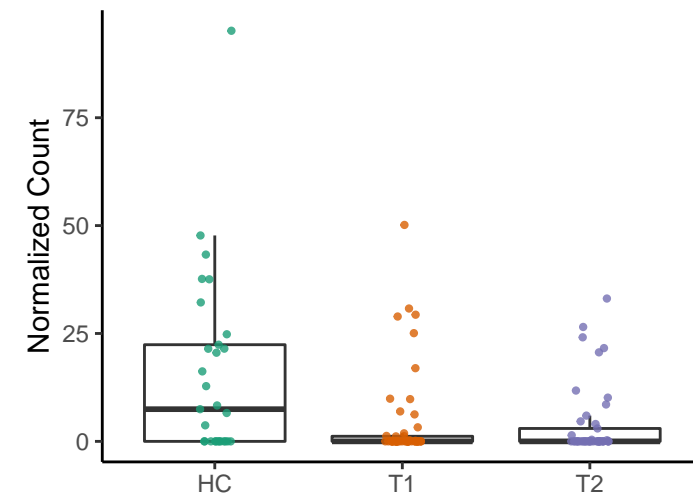
### PWY-5100: pyruvate fermentation to a

HC vs. T1 adjusted  $p = 0.0049$   
 HC vs. T2 adjusted  $p = 0.074$   
 T1 vs. T2 adjusted  $p = 0.36$



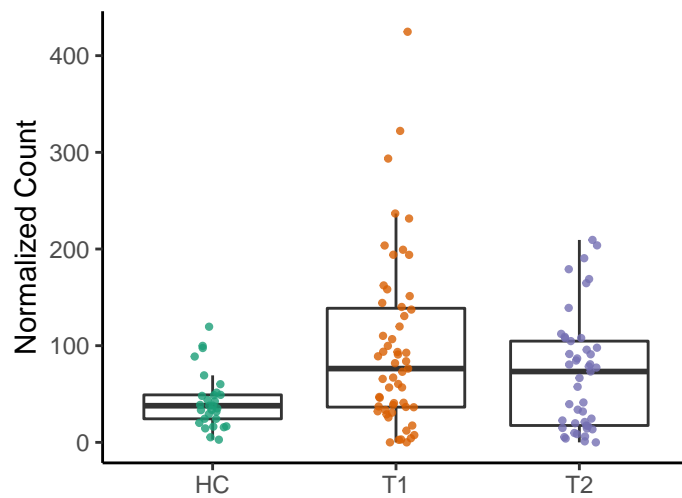
### PWY-7209: superpathway of pyrimidine

HC vs. T1 adjusted  $p = 0.039$   
 HC vs. T2 adjusted  $p = 0.078$   
 T1 vs. T2 adjusted  $p = 0.92$



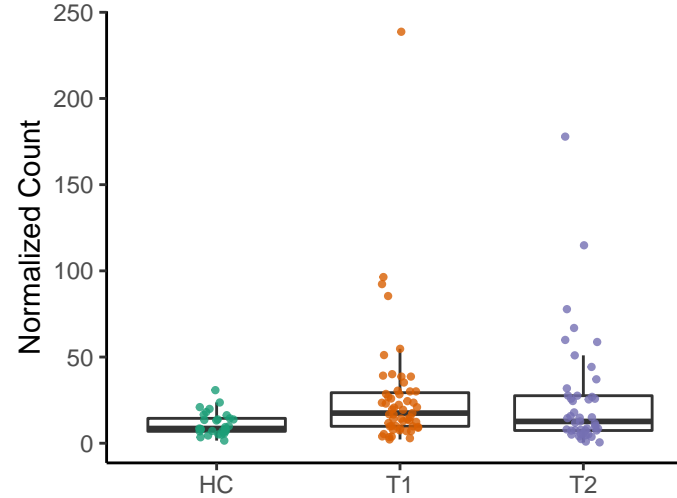
### PWY-5484: glycolysis II (from fructose

HC vs. T1 adjusted  $p = 0.00094$   
 HC vs. T2 adjusted  $p = 0.078$   
 T1 vs. T2 adjusted  $p = 0.25$



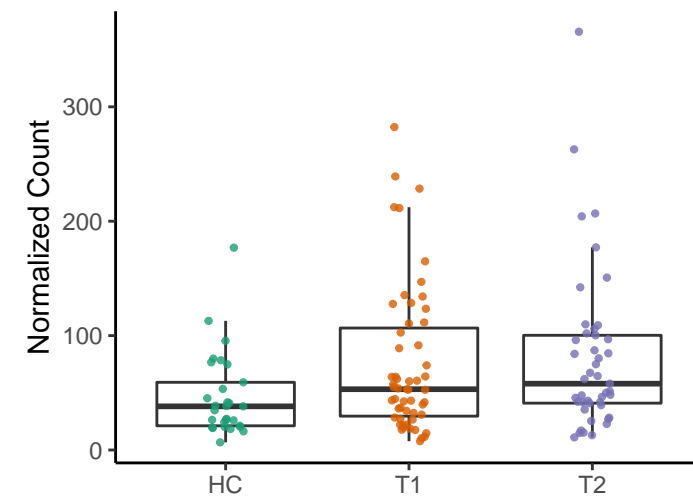
### P161-PWY: acetylene degradation

HC vs. T1 adjusted  $p = 0.018$   
 HC vs. T2 adjusted  $p = 0.081$   
 T1 vs. T2 adjusted  $p = 0.89$



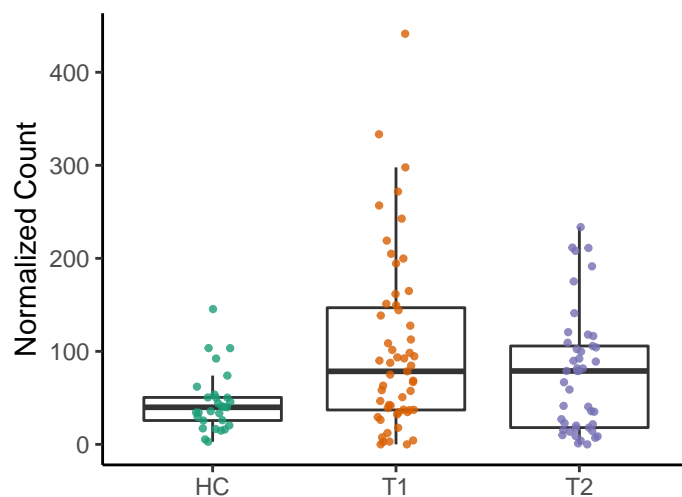
### PWY0-1297: superpathway of purine d

HC vs. T1 adjusted  $p = 0.054$   
 HC vs. T2 adjusted  $p = 0.081$   
 T1 vs. T2 adjusted  $p = 0.77$



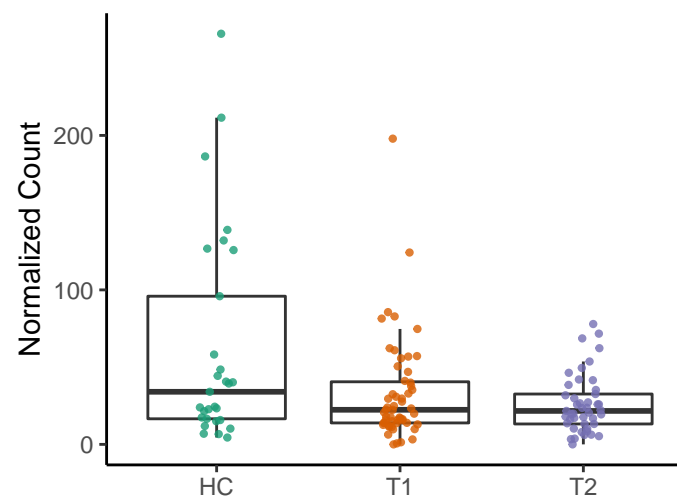
### GLYCOLYSIS: glycolysis I (from glucos

HC vs. T1 adjusted  $p = 0.0012$   
 HC vs. T2 adjusted  $p = 0.084$   
 T1 vs. T2 adjusted  $p = 0.26$



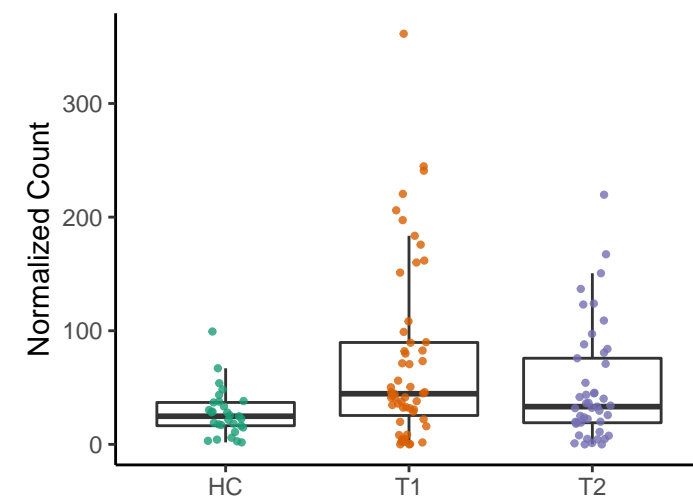
### PENTOSE-P-PWY: pentose phosphat

HC vs. T1 adjusted  $p = 0.12$   
 HC vs. T2 adjusted  $p = 0.084$   
 T1 vs. T2 adjusted  $p = 0.58$



### PWY66-400: glycolysis VI (metazoan)

HC vs. T1 adjusted  $p = 0.0013$   
 HC vs. T2 adjusted  $p = 0.084$   
 T1 vs. T2 adjusted  $p = 0.22$



HEME-BIOSYNTHESIS-II: heme biosynthesis I (aerobic)

HC vs. T1 adjusted p = 0.024

HC vs. T2 adjusted p = 0.085

T1 vs. T2 adjusted p = 0.49

