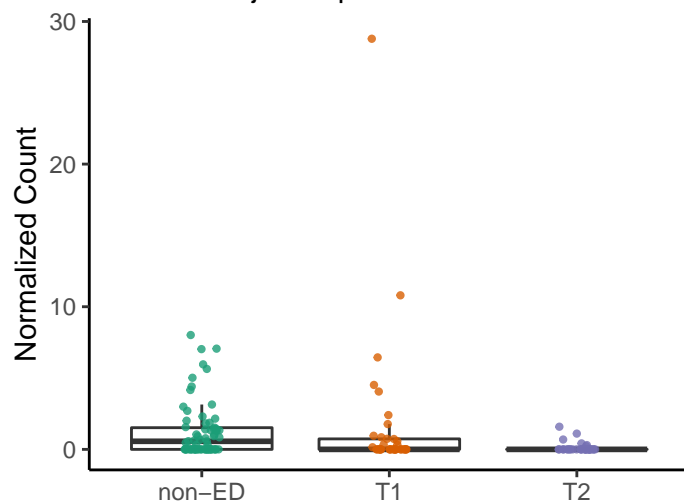


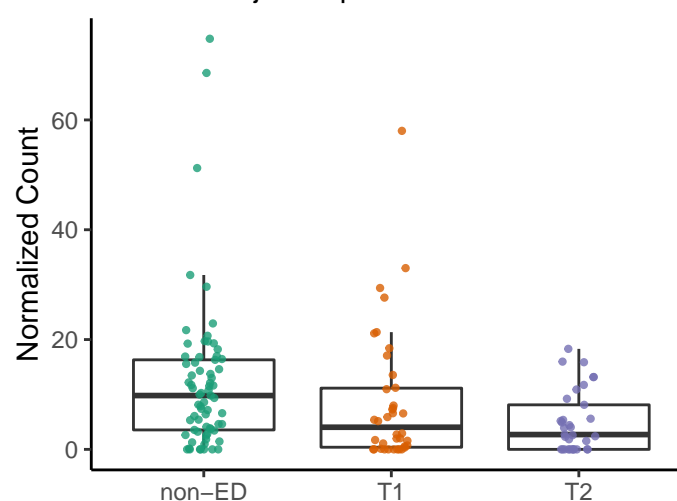
PWY490-3: nitrate reduction VI (assimil

non-ED vs. T1 adjusted $p = 0.81$
non-ED vs. T2 adjusted $p = 0.0027$
T1 vs. T2 adjusted $p = 0.21$



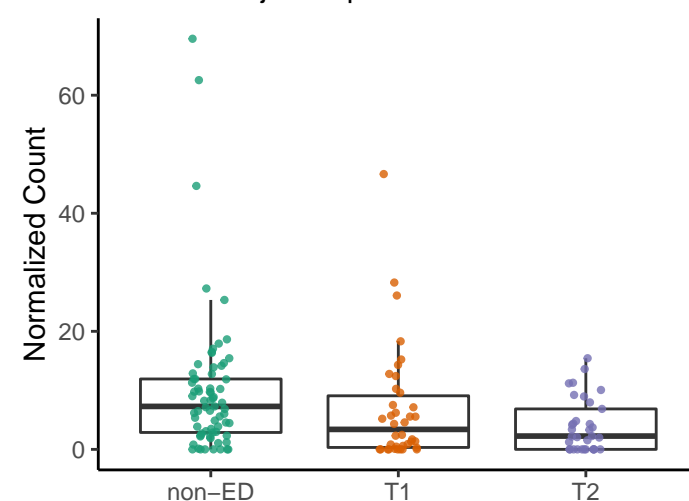
FAO-PWY: fatty acid β-oxidation I

non-ED vs. T1 adjusted $p = 0.37$
non-ED vs. T2 adjusted $p = 0.04$
T1 vs. T2 adjusted $p = 0.14$



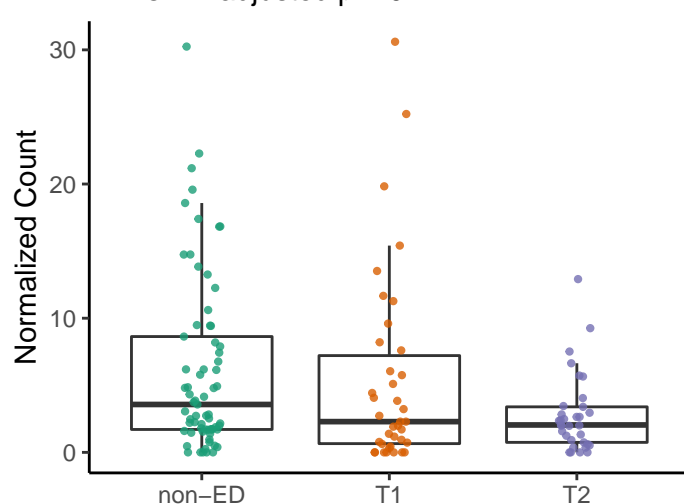
PWY-5136: fatty acid β-oxidation

non-ED vs. T1 adjusted $p = 0.3$
non-ED vs. T2 adjusted $p = 0.04$
T1 vs. T2 adjusted $p = 0.16$



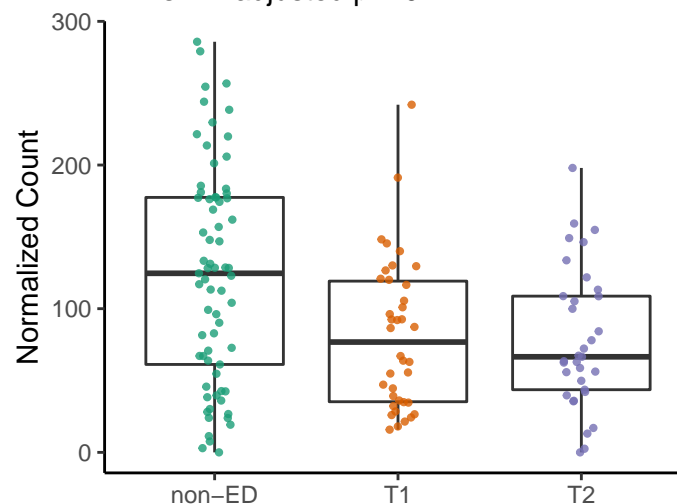
PWY-7115: C4 photosynthetic carbon a

non-ED vs. T1 adjusted $p = 0.79$
non-ED vs. T2 adjusted $p = 0.04$
T1 vs. T2 adjusted $p = 0.14$



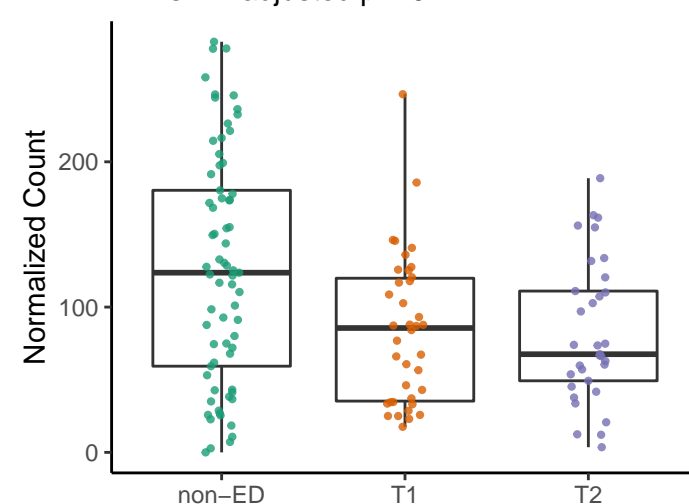
PWY0-781: aspartate superpathway

non-ED vs. T1 adjusted $p = 0.0072$
non-ED vs. T2 adjusted $p = 0.04$
T1 vs. T2 adjusted $p = 0.74$



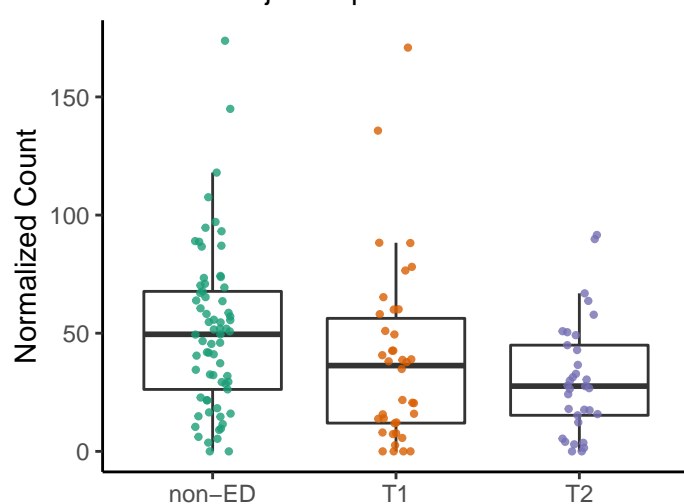
P4-PWY: superpathway of L-lysine, L-

non-ED vs. T1 adjusted $p = 0.0074$
non-ED vs. T2 adjusted $p = 0.044$
T1 vs. T2 adjusted $p = 0.74$



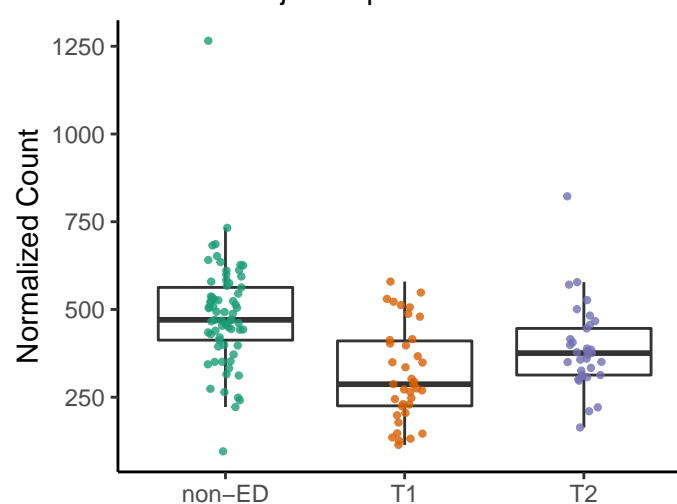
ARG+POLYAMINE-SYN: superpathwa

non-ED vs. T1 adjusted $p = 0.25$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.32$



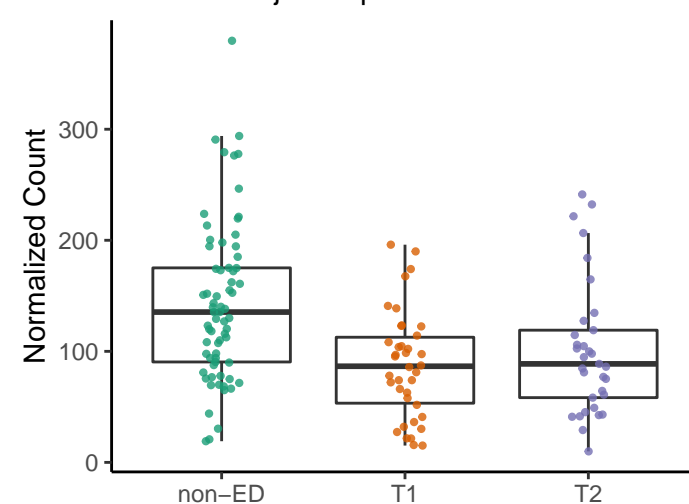
DTDPRHAMSYN-PWY: dTDP-L-rha

non-ED vs. T1 adjusted $p = 1.3e-05$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.13$



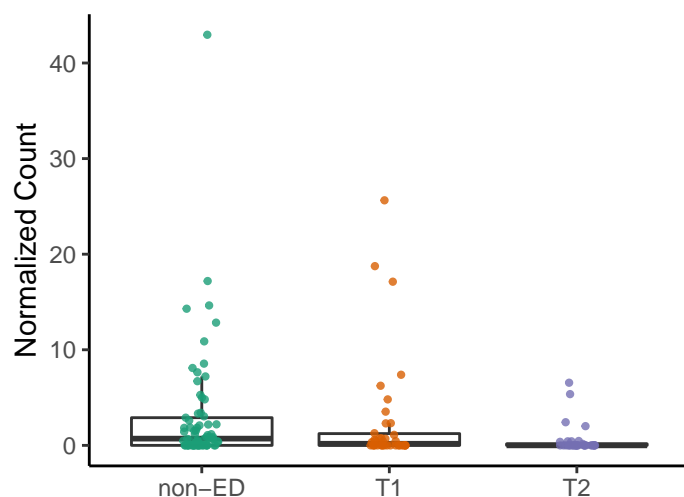
HOMOSER-METSYN-PWY: L-methio

non-ED vs. T1 adjusted $p = 0.00016$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.34$



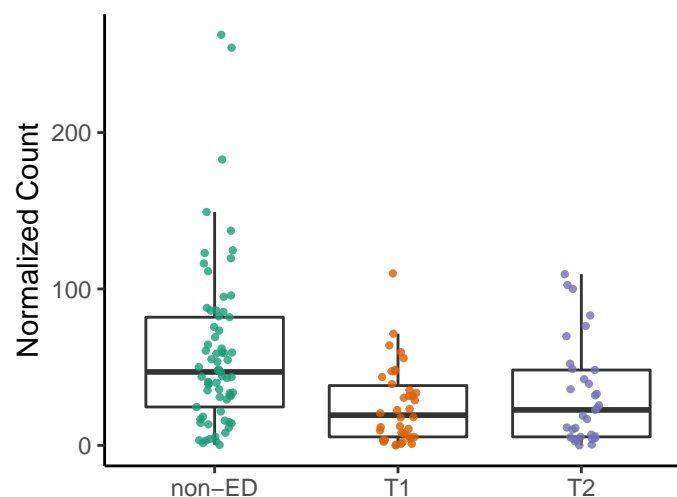
KETOGLUCONMET-PWY: ketoglucona

non-ED vs. T1 adjusted $p = 0.81$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.18$



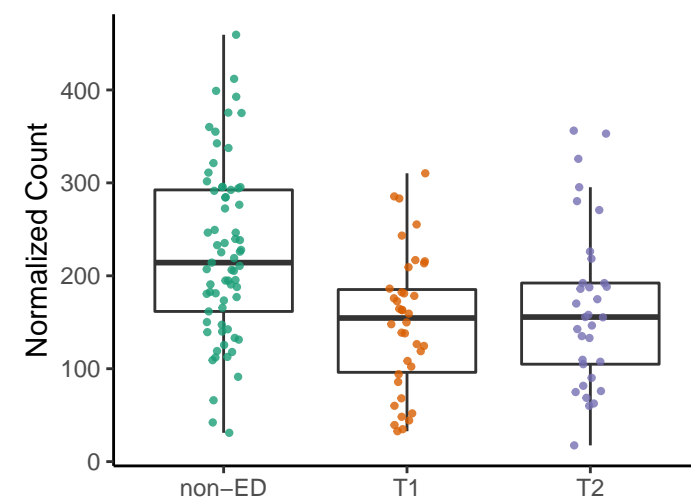
LACTOSECAT-PWY: lactose and galac

non-ED vs. T1 adjusted $p = 0.00026$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.35$



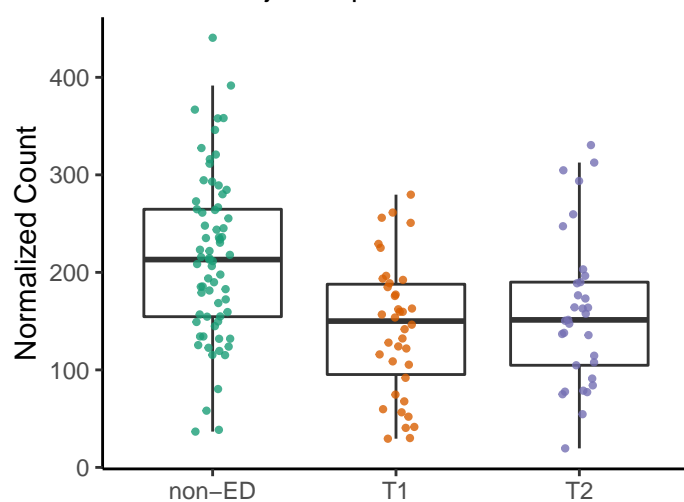
MET-SAM-PWY: superpathway of S-a

non-ED vs. T1 adjusted $p = 0.00024$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.43$



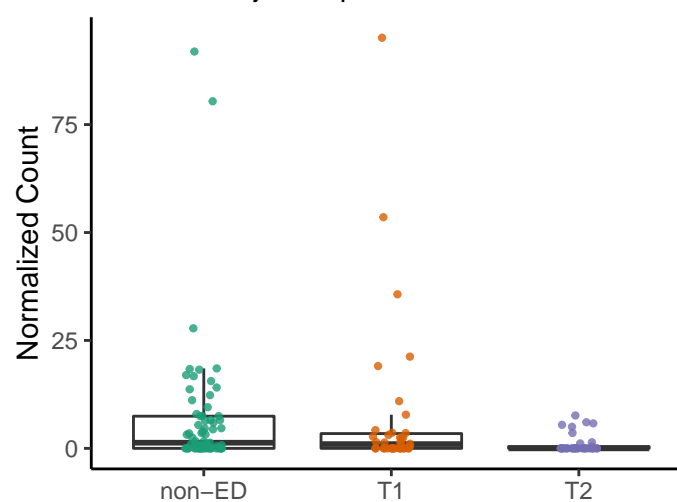
METSYN-PWY: L-homoserine and L-

non-ED vs. T1 adjusted $p = 2e-04$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.39$



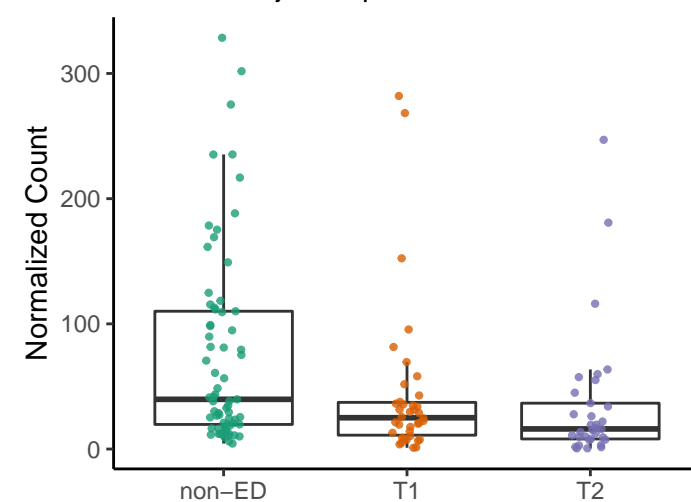
P105-PWY: TCA cycle IV (2-oxoglutara

non-ED vs. T1 adjusted $p = 0.95$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.16$



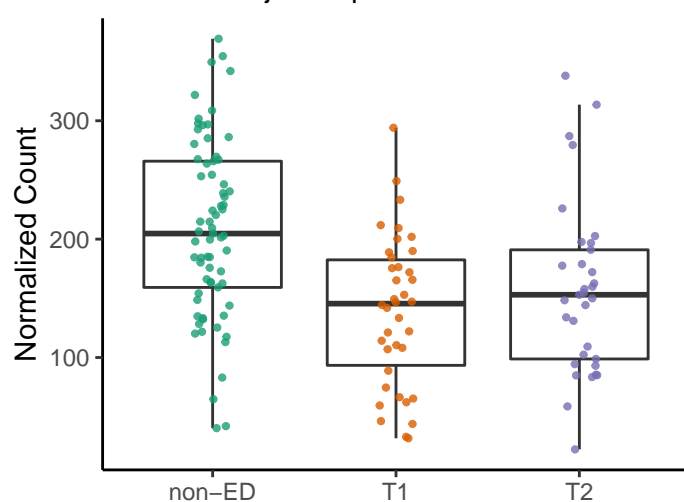
PENTOSE-P-PWY: pentose phosphat

non-ED vs. T1 adjusted $p = 0.081$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.45$



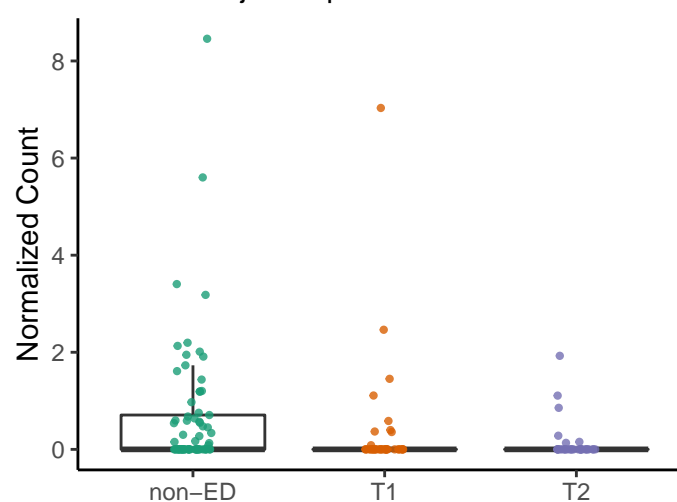
PWY-5347: superpathway of L-methio

non-ED vs. T1 adjusted $p = 1e-04$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.35$



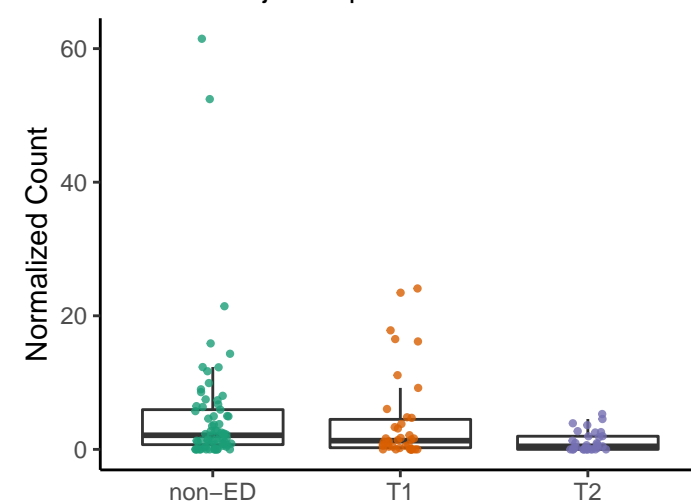
PWY-5692: allantoin degradation to glyo

non-ED vs. T1 adjusted $p = 0.38$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.35$



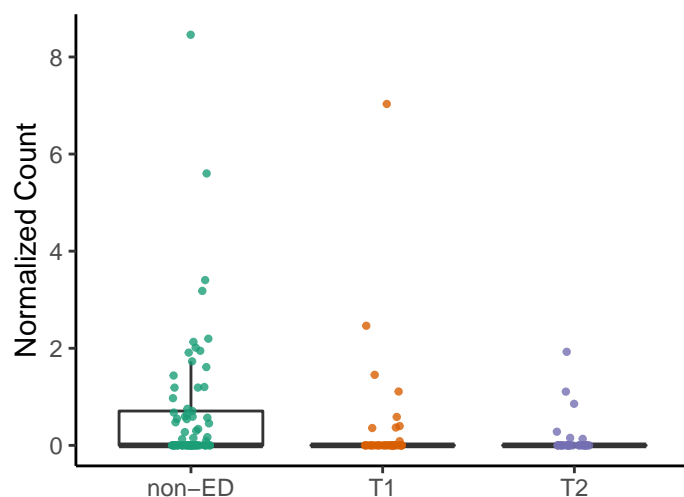
REDCITCYC: TCA cycle VIII (helicobact

non-ED vs. T1 adjusted $p = 0.77$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.13$



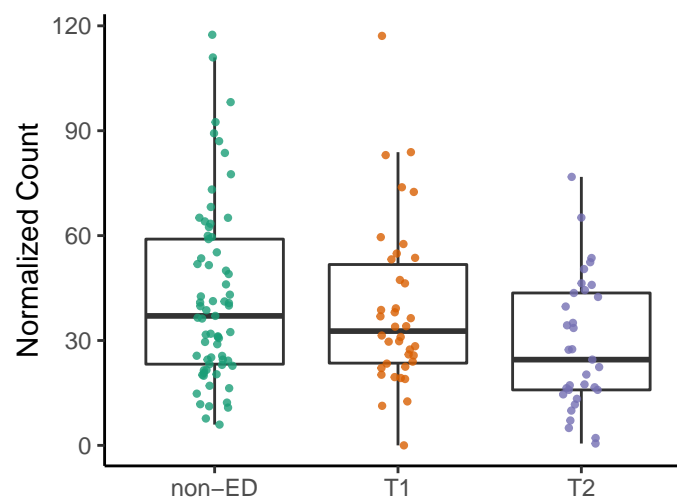
URDEGR-PWY: superpathway of allanto

non-ED vs. T1 adjusted $p = 0.38$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.35$



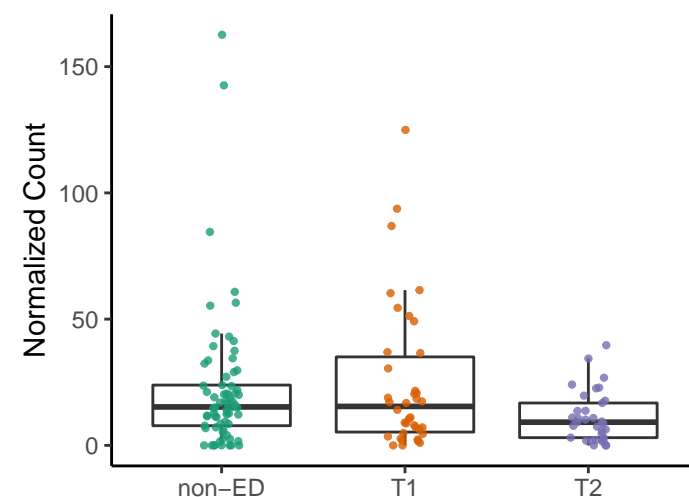
TCA: TCA cycle I (prokaryotic)

non-ED vs. T1 adjusted $p = 0.72$
non-ED vs. T2 adjusted $p = 0.05$
T1 vs. T2 adjusted $p = 0.13$



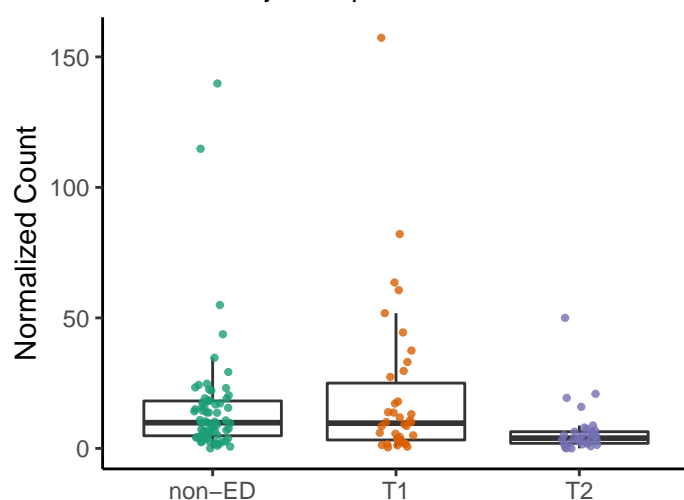
THISYN-PWY: superpathway of thiami

non-ED vs. T1 adjusted $p = 0.83$
non-ED vs. T2 adjusted $p = 0.061$
T1 vs. T2 adjusted $p = 0.13$



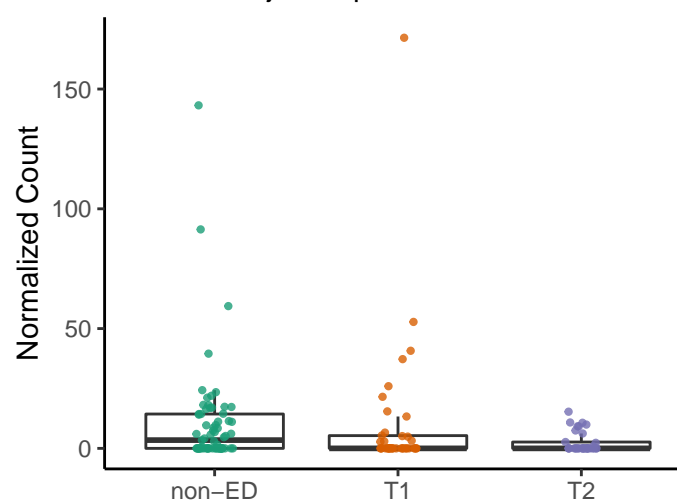
PWY0-1061: superpathway of L-alanin

non-ED vs. T1 adjusted $p = 0.62$
non-ED vs. T2 adjusted $p = 0.062$
T1 vs. T2 adjusted $p = 0.13$



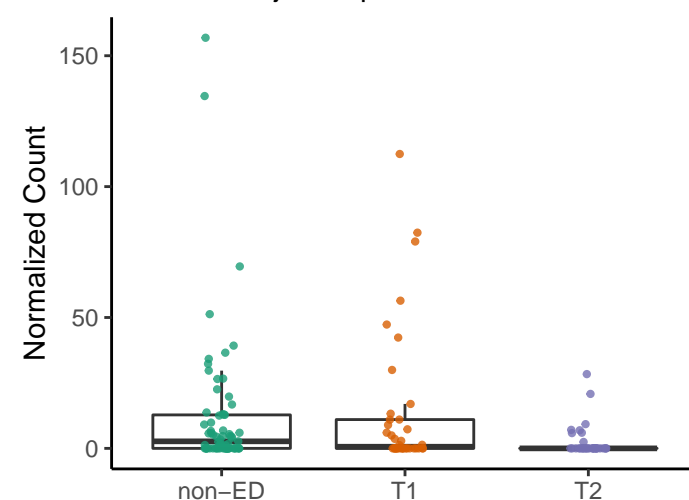
ENTBACSYN-PWY: enterobactin biosy

non-ED vs. T1 adjusted $p = 0.97$
non-ED vs. T2 adjusted $p = 0.065$
T1 vs. T2 adjusted $p = 0.25$



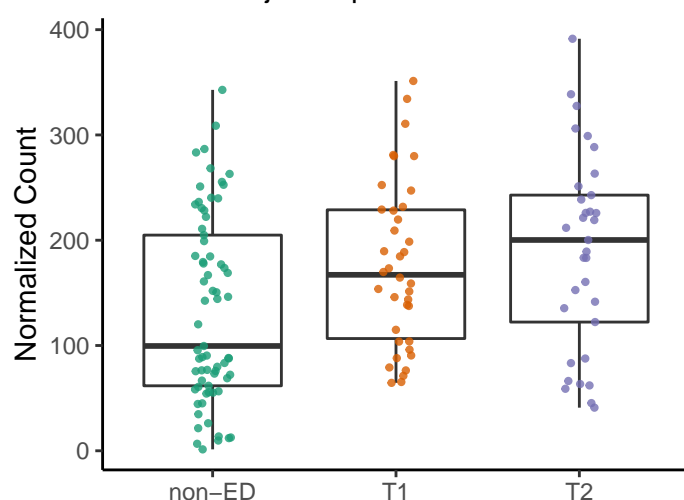
PWY-6895: superpathway of thiamin d

non-ED vs. T1 adjusted $p = 0.86$
non-ED vs. T2 adjusted $p = 0.068$
T1 vs. T2 adjusted $p = 0.13$



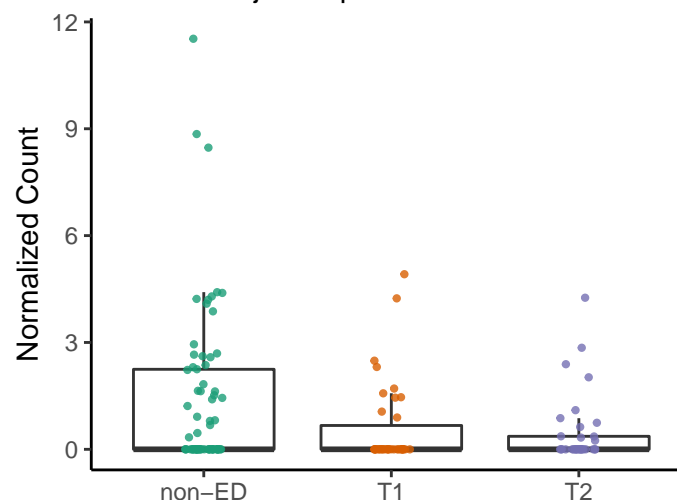
PWY-6897: thiamin salvage II

non-ED vs. T1 adjusted $p = 0.041$
non-ED vs. T2 adjusted $p = 0.068$
T1 vs. T2 adjusted $p = 0.68$



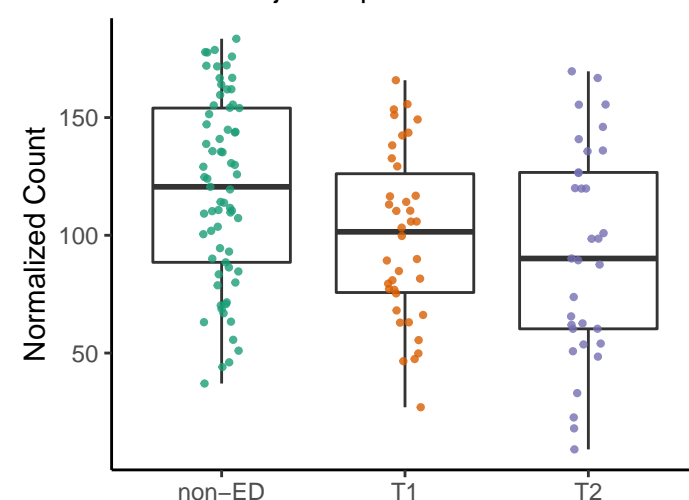
RUMP-PWY: formaldehyde oxidation I

non-ED vs. T1 adjusted $p = 0.053$
non-ED vs. T2 adjusted $p = 0.068$
T1 vs. T2 adjusted $p = 0.73$



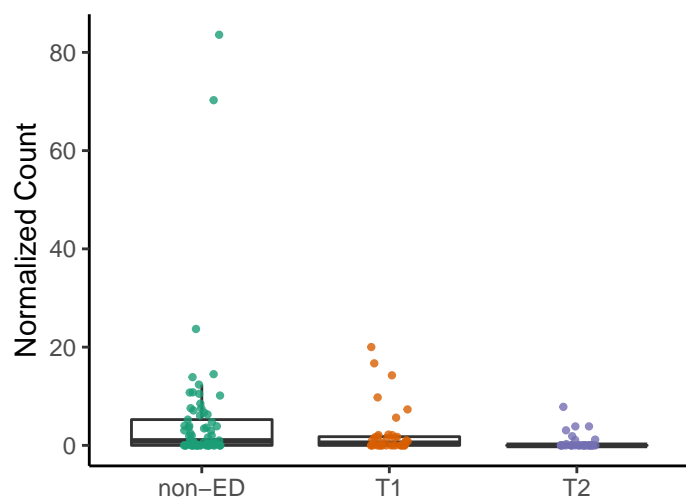
PRPP-PWY: superpathway of histidine

non-ED vs. T1 adjusted $p = 0.038$
non-ED vs. T2 adjusted $p = 0.068$
T1 vs. T2 adjusted $p = 0.27$



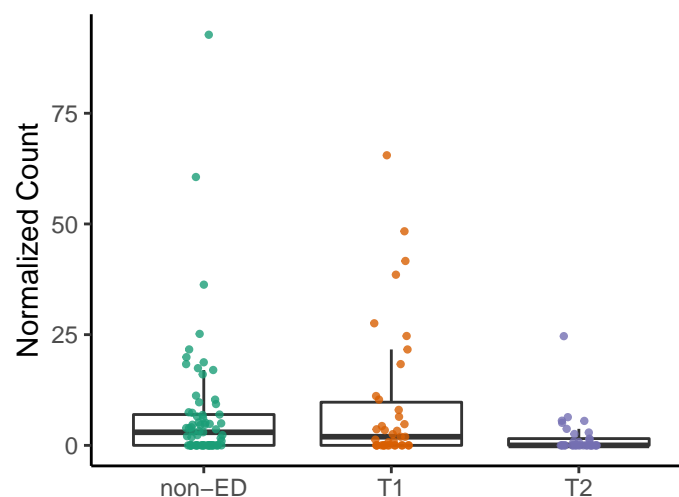
PWY-561: superpathway of glyoxylate c

non-ED vs. T1 adjusted $p = 0.25$
non-ED vs. T2 adjusted $p = 0.068$
T1 vs. T2 adjusted $p = 0.14$



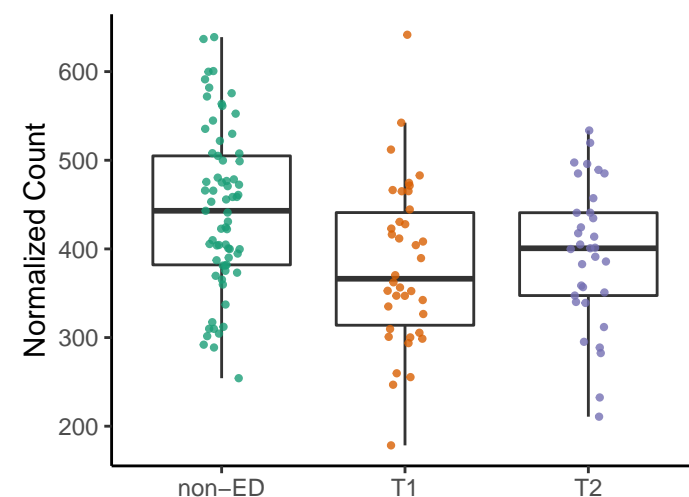
PWY-5838: superpathway of menaquin

non-ED vs. T1 adjusted $p = 0.74$
non-ED vs. T2 adjusted $p = 0.068$
T1 vs. T2 adjusted $p = 0.13$



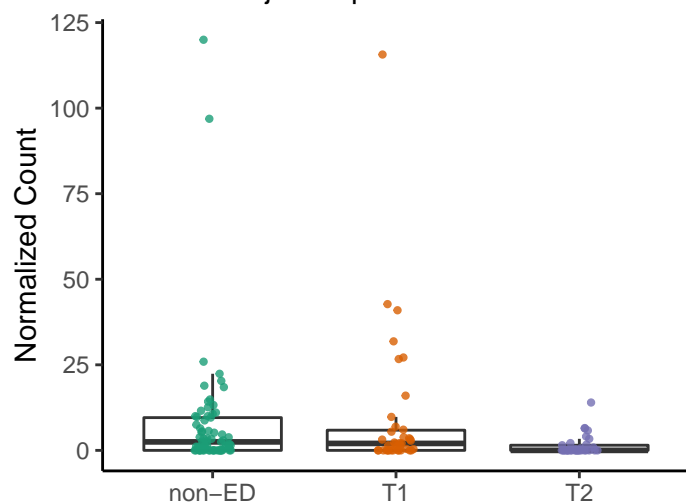
TRNA-CHARGING-PWY: tRNA charg

non-ED vs. T1 adjusted $p = 0.0072$
non-ED vs. T2 adjusted $p = 0.068$
T1 vs. T2 adjusted $p = 0.66$



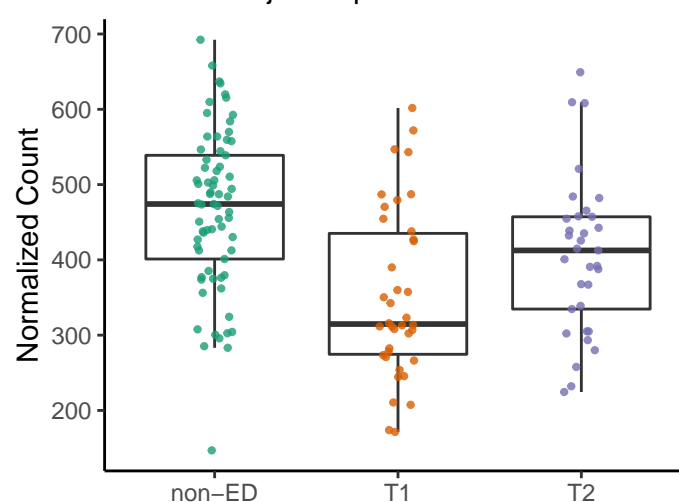
GLYCOLYSIS-TCA-GLYOX-BYPASS:

non-ED vs. T1 adjusted $p = 0.85$
non-ED vs. T2 adjusted $p = 0.068$
T1 vs. T2 adjusted $p = 0.14$



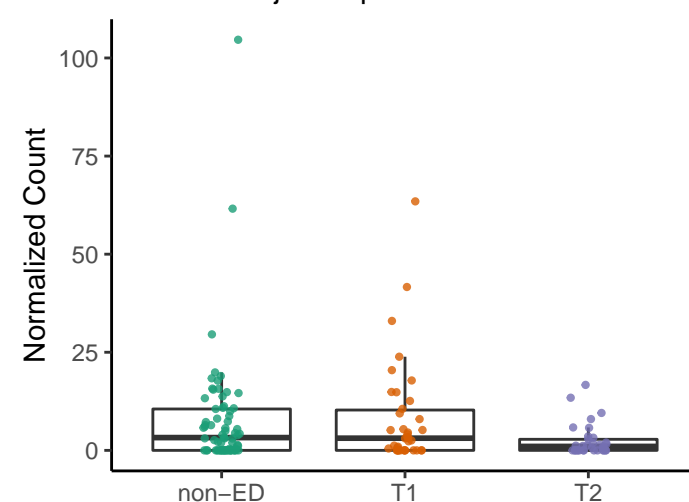
CALVIN-PWY: Calvin-Benson-Bassha

non-ED vs. T1 adjusted $p = 1e-04$
non-ED vs. T2 adjusted $p = 0.07$
T1 vs. T2 adjusted $p = 0.14$



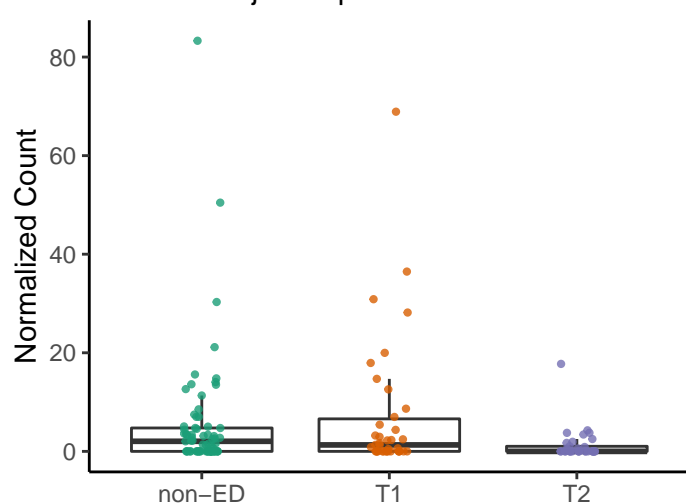
FUC-RHAMCAT-PWY: superpathway

non-ED vs. T1 adjusted $p = 0.94$
non-ED vs. T2 adjusted $p = 0.072$
T1 vs. T2 adjusted $p = 0.13$



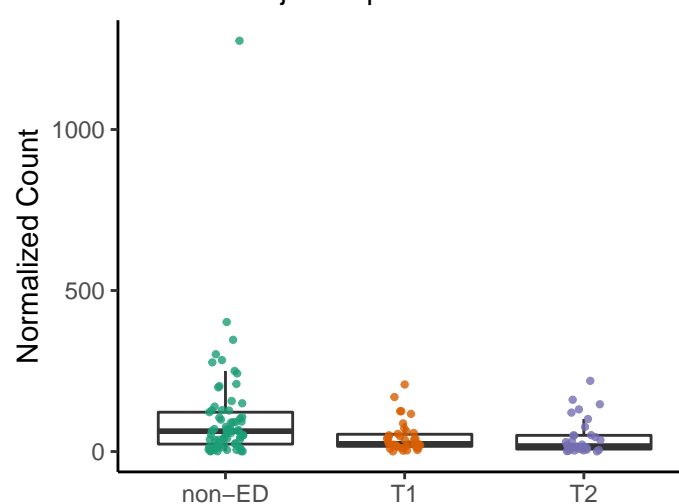
PWY-5861: superpathway of demethyln

non-ED vs. T1 adjusted $p = 0.77$
non-ED vs. T2 adjusted $p = 0.074$
T1 vs. T2 adjusted $p = 0.13$



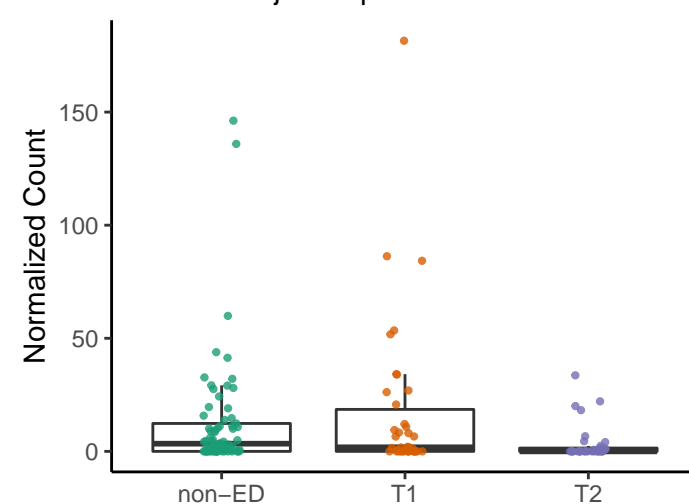
PWY-6147: 6-hydroxymethyl-dihydro

non-ED vs. T1 adjusted $p = 0.03$
non-ED vs. T2 adjusted $p = 0.074$
T1 vs. T2 adjusted $p = 0.88$



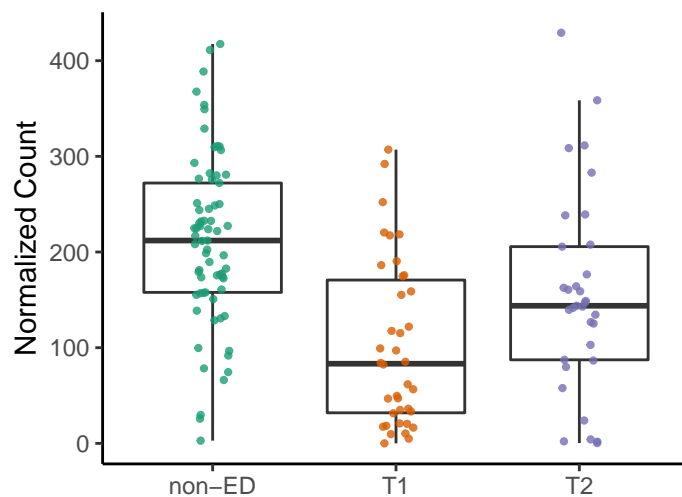
PWY-6630: superpathway of L-tyrosin

non-ED vs. T1 adjusted $p = 0.69$
non-ED vs. T2 adjusted $p = 0.074$
T1 vs. T2 adjusted $p = 0.14$



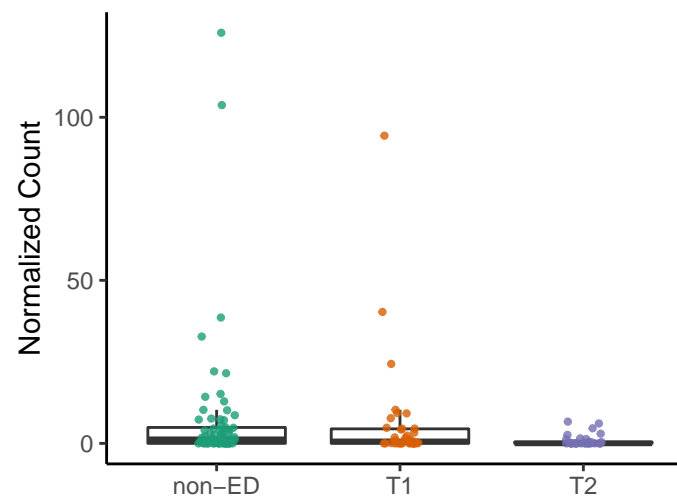
COBALSYN-PWY: adenosylcobalamin

non-ED vs. T1 adjusted $p = 7.6e-06$
non-ED vs. T2 adjusted $p = 0.075$
T1 vs. T2 adjusted $p = 0.13$



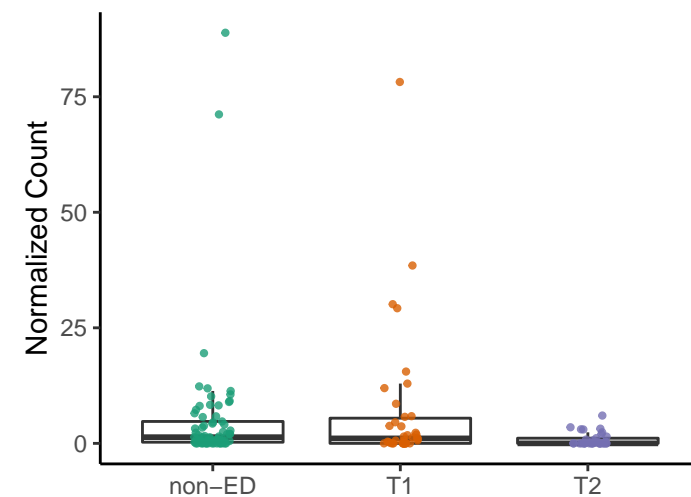
GLUCOSE1PMETAB-PWY: glucose ar

non-ED vs. T1 adjusted $p = 0.83$
non-ED vs. T2 adjusted $p = 0.075$
T1 vs. T2 adjusted $p = 0.19$



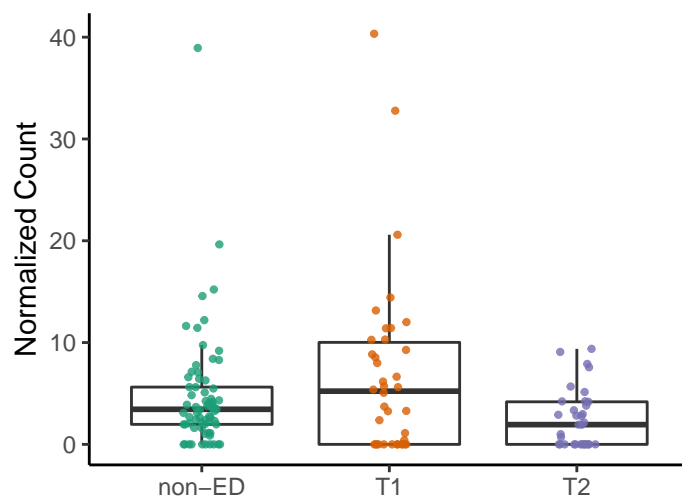
GLYOXYLATE-BYPASS: glyoxylate cycl

non-ED vs. T1 adjusted $p = 0.79$
non-ED vs. T2 adjusted $p = 0.078$
T1 vs. T2 adjusted $p = 0.13$



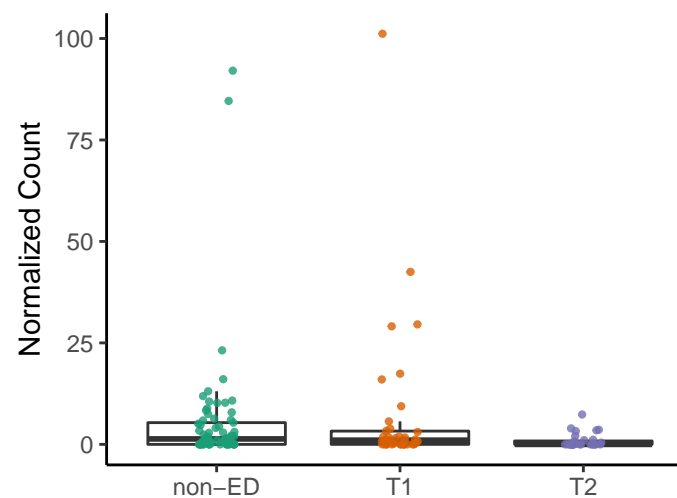
PWY-5464: superpathway of cytosolic c

non-ED vs. T1 adjusted $p = 0.39$
non-ED vs. T2 adjusted $p = 0.078$
T1 vs. T2 adjusted $p = 0.13$



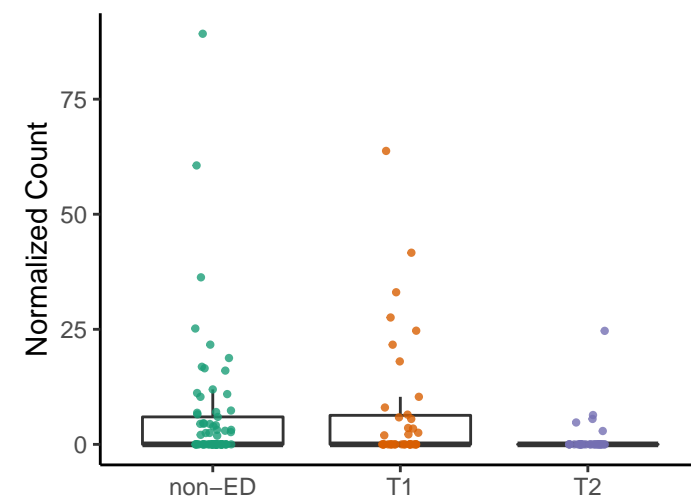
TCA-GLYOX-BYPASS: superpathway

non-ED vs. T1 adjusted $p = 0.83$
non-ED vs. T2 adjusted $p = 0.078$
T1 vs. T2 adjusted $p = 0.15$



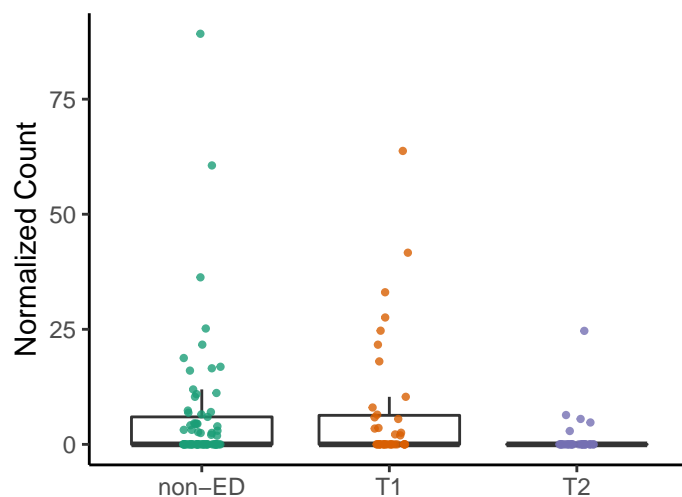
PWY-5845: superpathway of menaquin

non-ED vs. T1 adjusted $p = 0.83$
non-ED vs. T2 adjusted $p = 0.083$
T1 vs. T2 adjusted $p = 0.13$



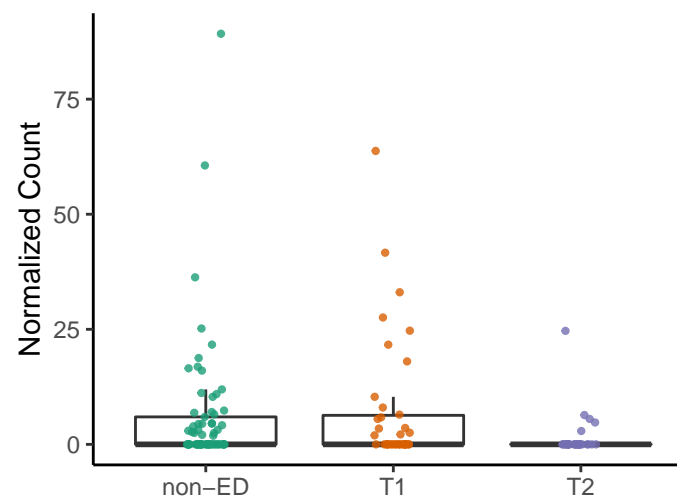
PWY-5850: superpathway of menaquin

non-ED vs. T1 adjusted $p = 0.83$
non-ED vs. T2 adjusted $p = 0.083$
T1 vs. T2 adjusted $p = 0.13$



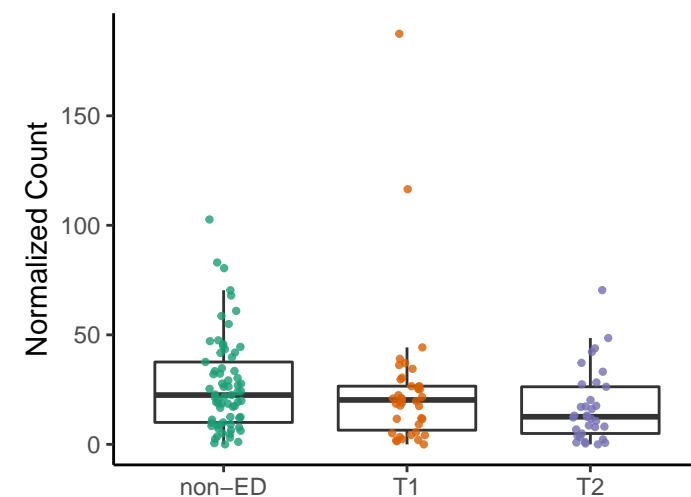
PWY-5896: superpathway of menaquin

non-ED vs. T1 adjusted $p = 0.83$
non-ED vs. T2 adjusted $p = 0.083$
T1 vs. T2 adjusted $p = 0.13$



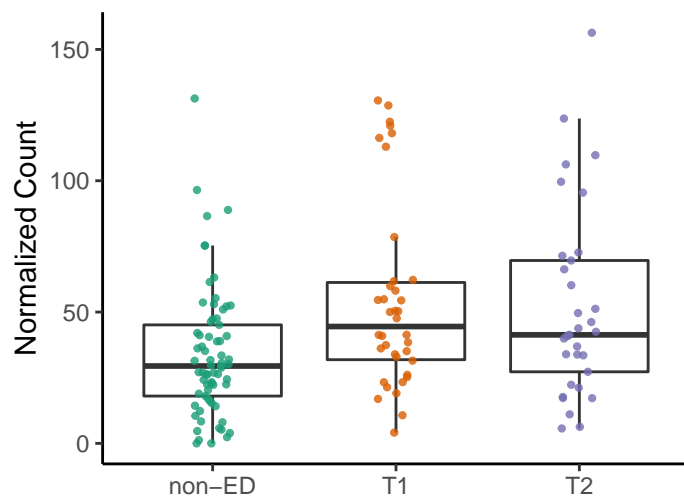
PWY-5189: tetrapyrrole biosynthesis II

non-ED vs. T1 adjusted $p = 0.86$
non-ED vs. T2 adjusted $p = 0.086$
T1 vs. T2 adjusted $p = 0.47$



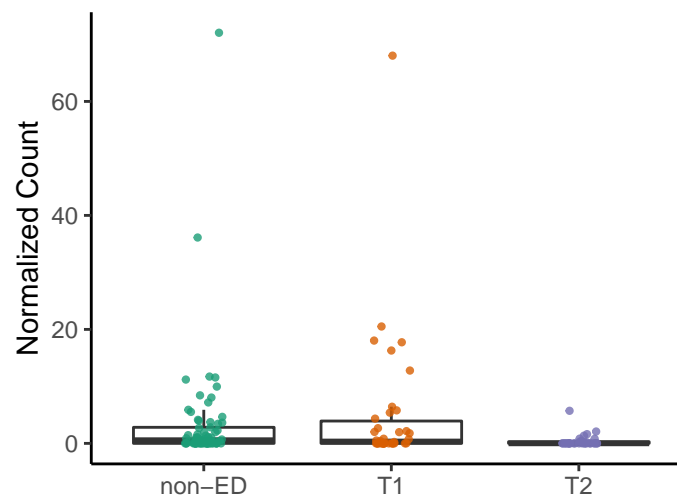
PWY66-399: gluconeogenesis III

non-ED vs. T1 adjusted p = 0.012
non-ED vs. T2 adjusted p = 0.086
T1 vs. T2 adjusted p = 0.81



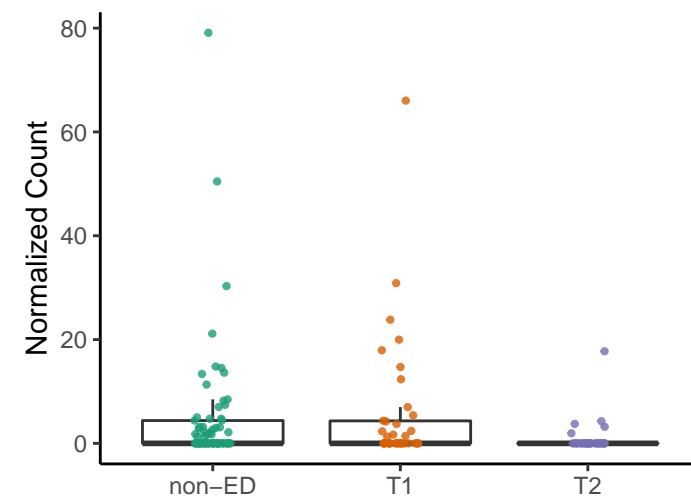
PWY-4041: γ-glutamyl cycle

non-ED vs. T1 adjusted p = 0.74
non-ED vs. T2 adjusted p = 0.087
T1 vs. T2 adjusted p = 0.14



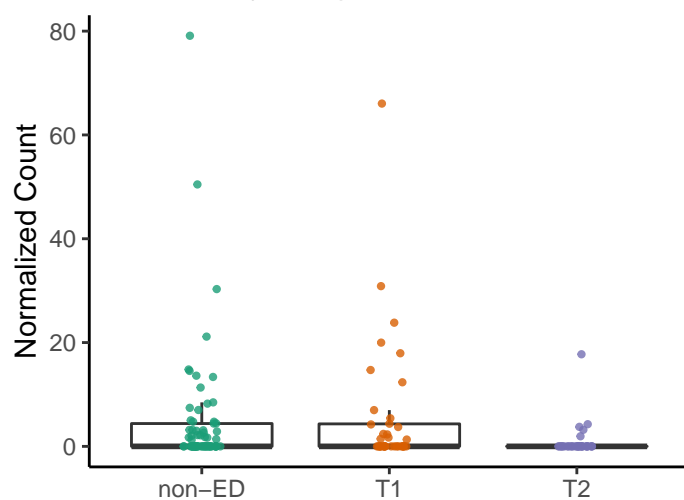
PWY-5860: superpathway of demethylation

non-ED vs. T1 adjusted p = 0.85
non-ED vs. T2 adjusted p = 0.087
T1 vs. T2 adjusted p = 0.14



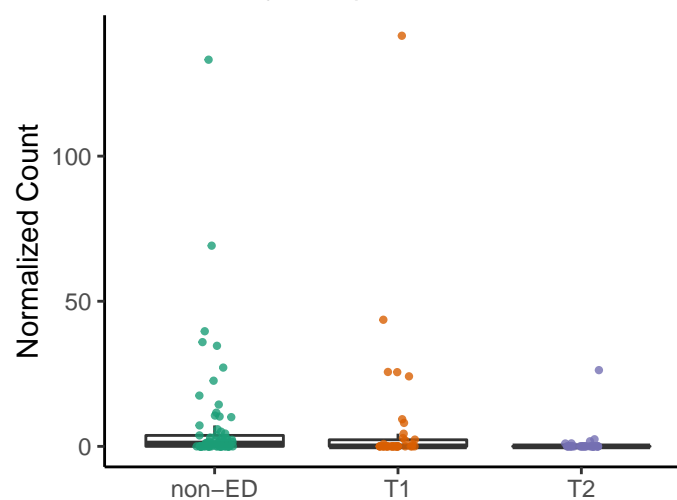
PWY-5862: superpathway of demethylation

non-ED vs. T1 adjusted p = 0.85
non-ED vs. T2 adjusted p = 0.087
T1 vs. T2 adjusted p = 0.14



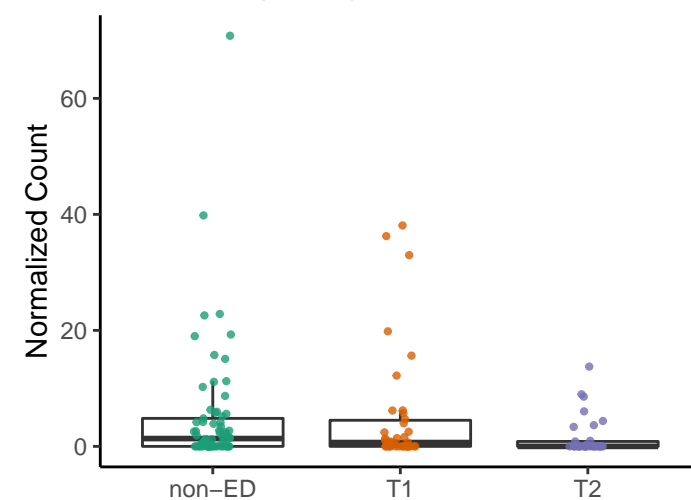
PWY-6629: superpathway of L-tryptophan

non-ED vs. T1 adjusted p = 0.95
non-ED vs. T2 adjusted p = 0.087
T1 vs. T2 adjusted p = 0.24



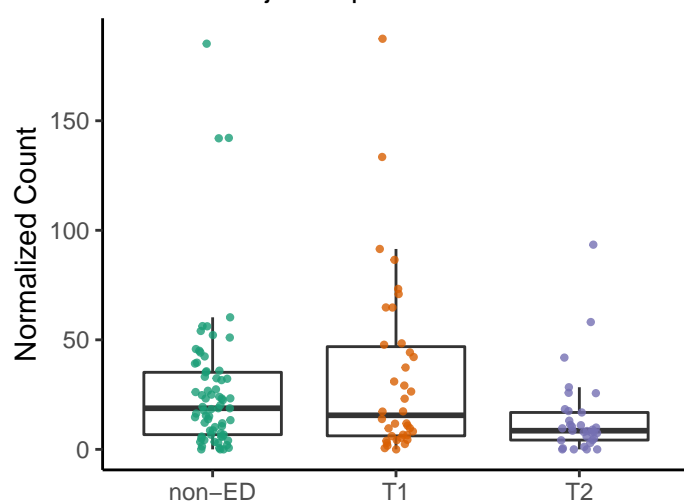
PWY-7204: pyridoxal 5'-phosphate salvage

non-ED vs. T1 adjusted p = 0.99
non-ED vs. T2 adjusted p = 0.087
T1 vs. T2 adjusted p = 0.16



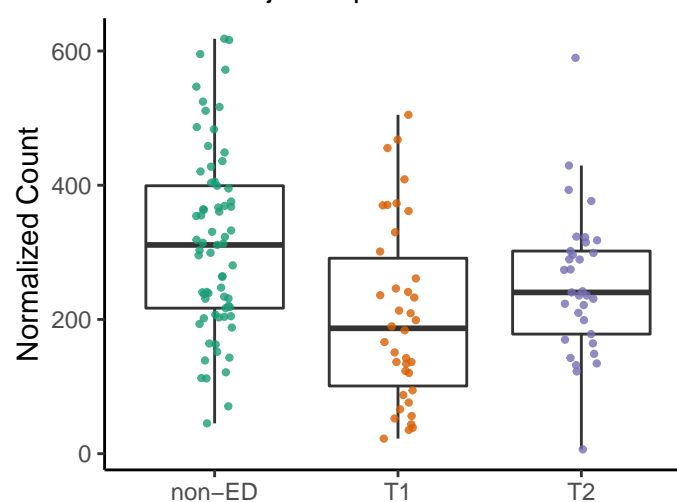
PWY-6628: superpathway of L-phenylalanine

non-ED vs. T1 adjusted p = 0.67
non-ED vs. T2 adjusted p = 0.089
T1 vs. T2 adjusted p = 0.13



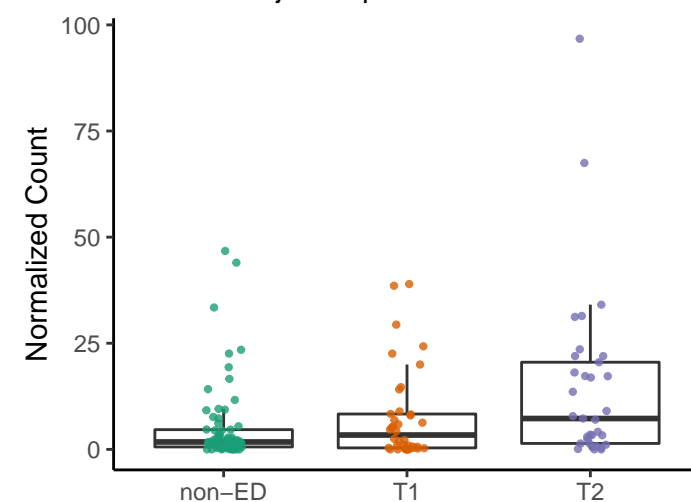
PWY-621: sucrose degradation III (sucrose)

non-ED vs. T1 adjusted p = 0.0015
non-ED vs. T2 adjusted p = 0.091
T1 vs. T2 adjusted p = 0.32



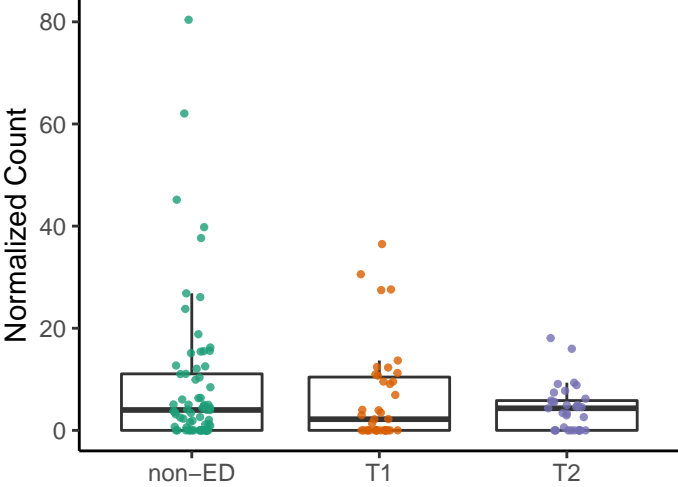
PWY-5384: sucrose degradation IV (sucrose)

non-ED vs. T1 adjusted p = 0.49
non-ED vs. T2 adjusted p = 0.092
T1 vs. T2 adjusted p = 0.17



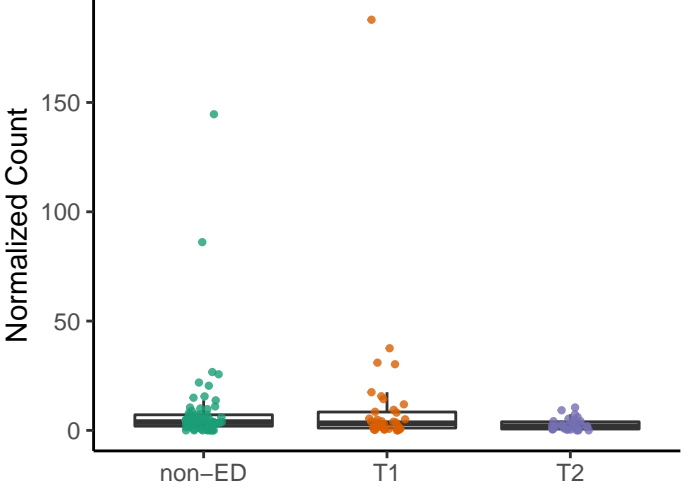
CRNFORCAT–PWY: creatinine degrada

non-ED vs. T1 adjusted p = 0.52
non-ED vs. T2 adjusted p = 0.093
T1 vs. T2 adjusted p = 0.28



PWY–6892: thiazole biosynthesis I (E. coli)

non-ED vs. T1 adjusted p = 0.81
non-ED vs. T2 adjusted p = 0.093
T1 vs. T2 adjusted p = 0.23



PWY–7254: TCA cycle VII (acetate-pro

non-ED vs. T1 adjusted p = 0.91
non-ED vs. T2 adjusted p = 0.093
T1 vs. T2 adjusted p = 0.18

