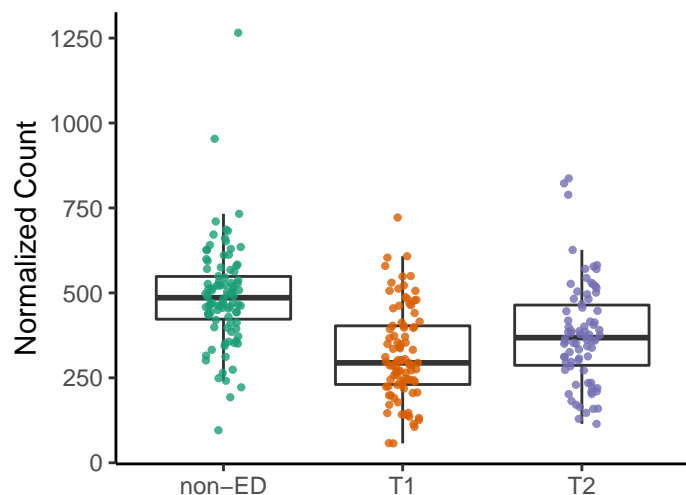


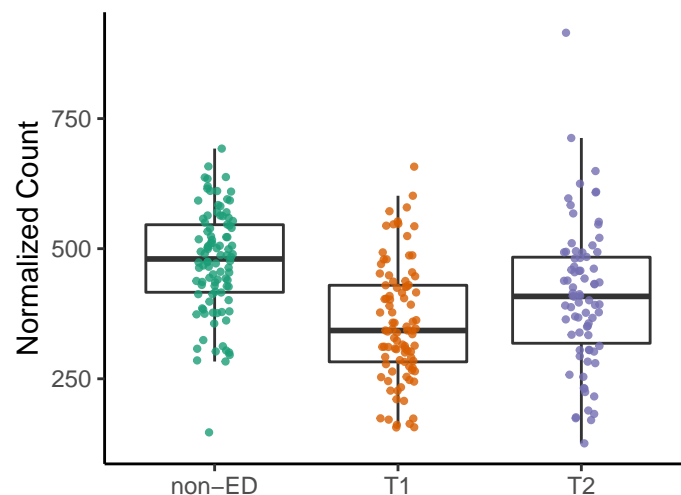
DTDPRHAMSYN-PWY: dTDP-L-rha

non-ED vs. T1 adjusted $p = 6.6\text{e-}12$
non-ED vs. T2 adjusted $p = 0.00014$
T1 vs. T2 adjusted $p = 0.011$



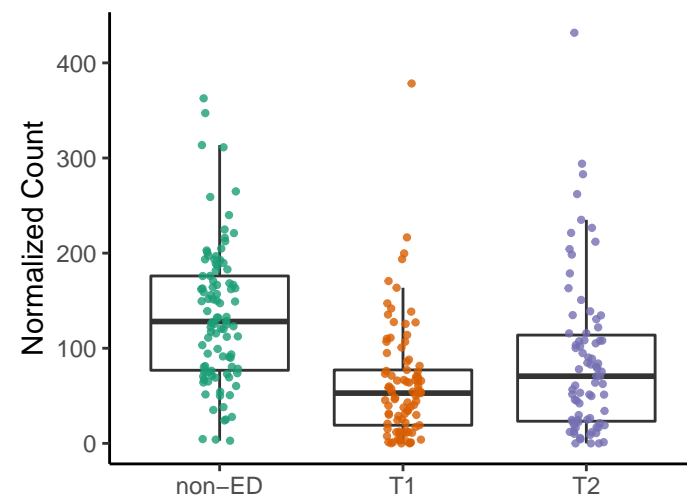
CALVIN-PWY: Calvin-Benson-Bassh

non-ED vs. T1 adjusted $p = 1.5\text{e-}10$
non-ED vs. T2 adjusted $p = 0.0048$
T1 vs. T2 adjusted $p = 0.018$



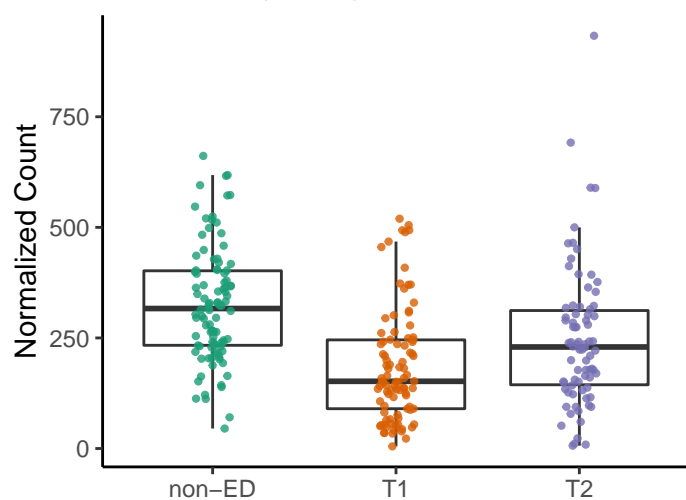
PWY-5177: glutaryl-CoA degradation

non-ED vs. T1 adjusted $p = 1.8\text{e-}10$
non-ED vs. T2 adjusted $p = 0.0023$
T1 vs. T2 adjusted $p = 0.019$



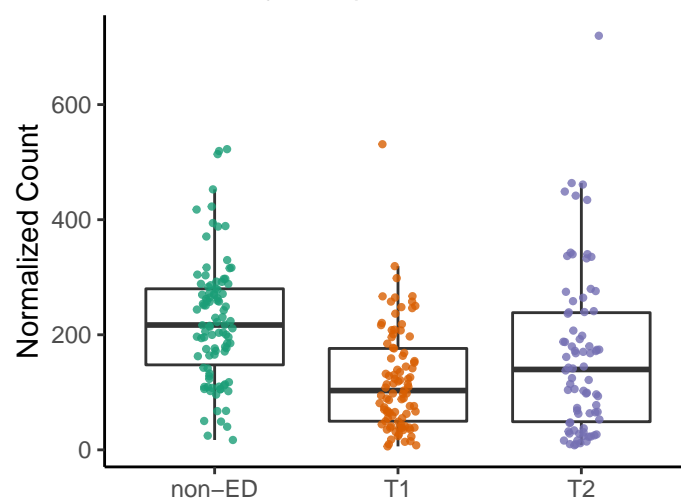
PWY-621: sucrose degradation III (suc

non-ED vs. T1 adjusted $p = 1.8\text{e-}10$
non-ED vs. T2 adjusted $p = 0.0099$
T1 vs. T2 adjusted $p = 0.018$



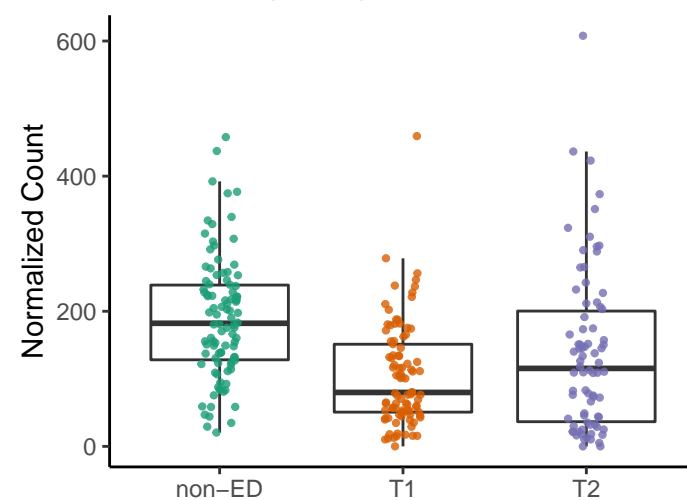
PWY-7242: D-fructuronate degradatio

non-ED vs. T1 adjusted $p = 9.7\text{e-}10$
non-ED vs. T2 adjusted $p = 0.019$
T1 vs. T2 adjusted $p = 0.027$



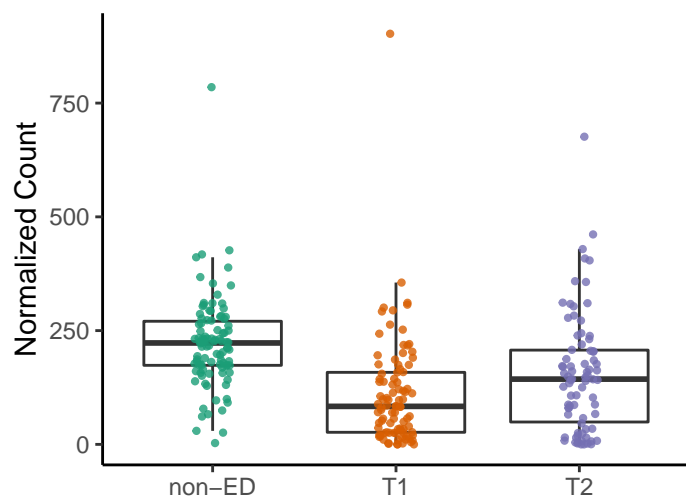
GLUCUROCAT-PWY: superpathway o

non-ED vs. T1 adjusted $p = 2.4\text{e-}09$
non-ED vs. T2 adjusted $p = 0.021$
T1 vs. T2 adjusted $p = 0.033$



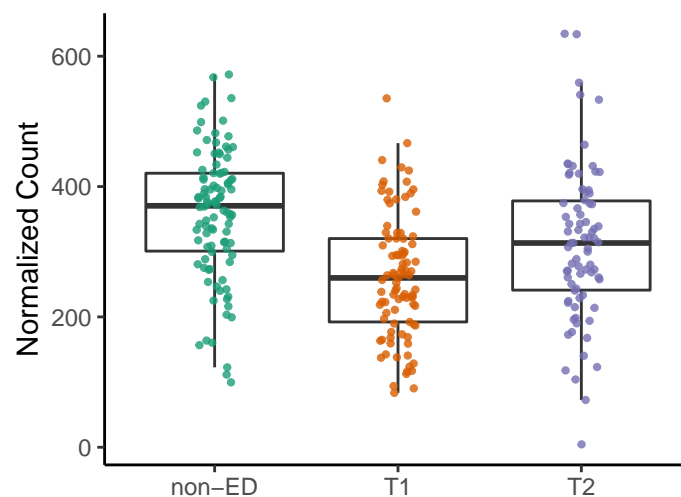
COBALSYN-PWY: adenosylcobalamin

non-ED vs. T1 adjusted $p = 4.3\text{e-}09$
non-ED vs. T2 adjusted $p = 0.0041$
T1 vs. T2 adjusted $p = 0.0069$



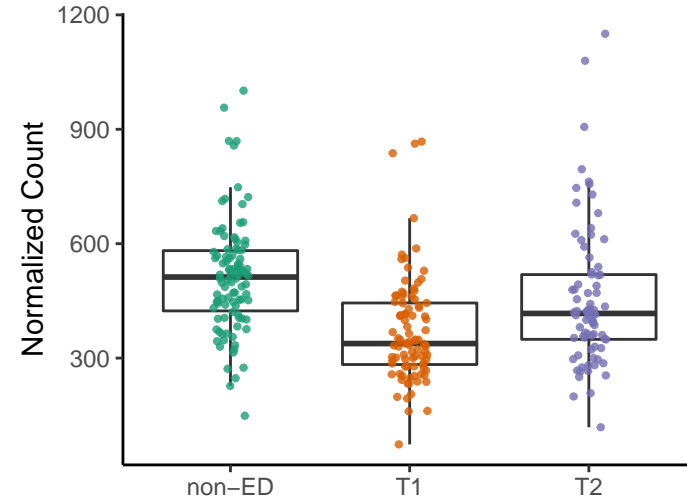
PWY66-422: D-galactose degradation

non-ED vs. T1 adjusted $p = 5.3\text{e-}09$
non-ED vs. T2 adjusted $p = 0.041$
T1 vs. T2 adjusted $p = 0.008$



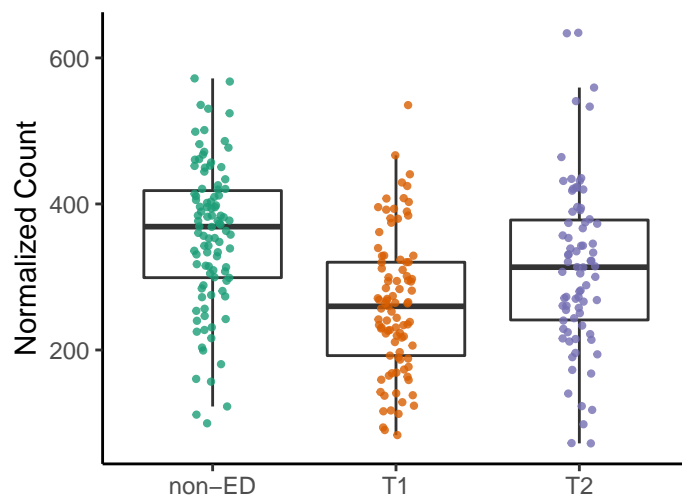
PWY-5103: L-isoleucine biosynthesis

non-ED vs. T1 adjusted $p = 5.5\text{e-}09$
non-ED vs. T2 adjusted $p = 0.093$
T1 vs. T2 adjusted $p = 0.0045$



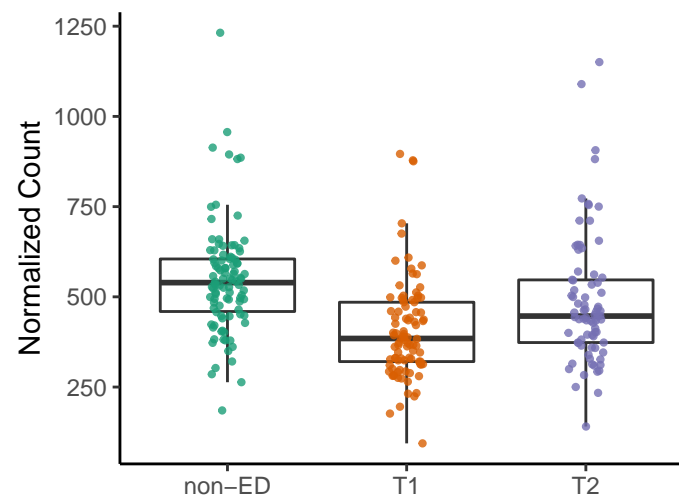
PWY-6317: galactose degradation I (L

non-ED vs. T1 adjusted $p = 6e-09$
non-ED vs. T2 adjusted $p = 0.048$
T1 vs. T2 adjusted $p = 0.0069$



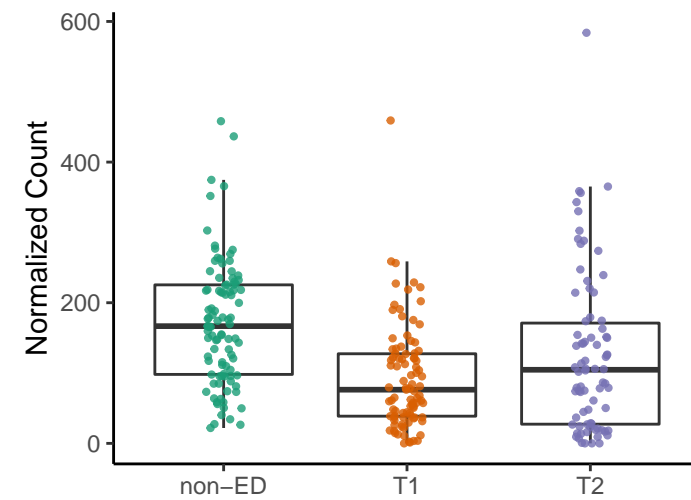
BRANCHED-CHAIN-AA-SYN-PWY:

non-ED vs. T1 adjusted $p = 9.2e-09$
non-ED vs. T2 adjusted $p = 0.075$
T1 vs. T2 adjusted $p = 0.0045$



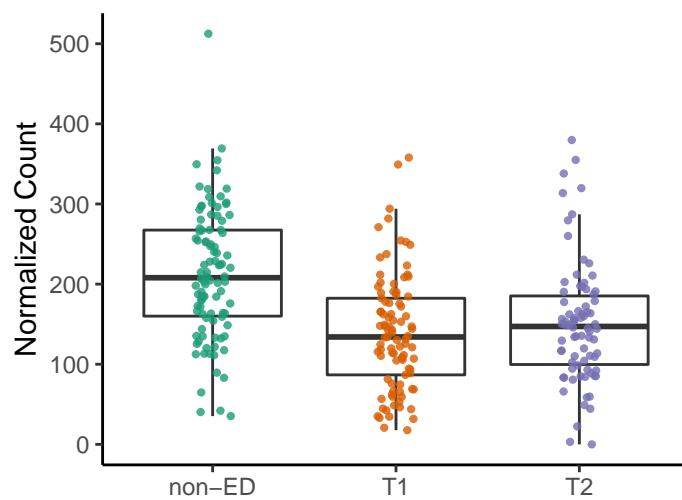
GALACT-GLUCUROCAT-PWY: super

non-ED vs. T1 adjusted $p = 9.2e-09$
non-ED vs. T2 adjusted $p = 0.028$
T1 vs. T2 adjusted $p = 0.033$



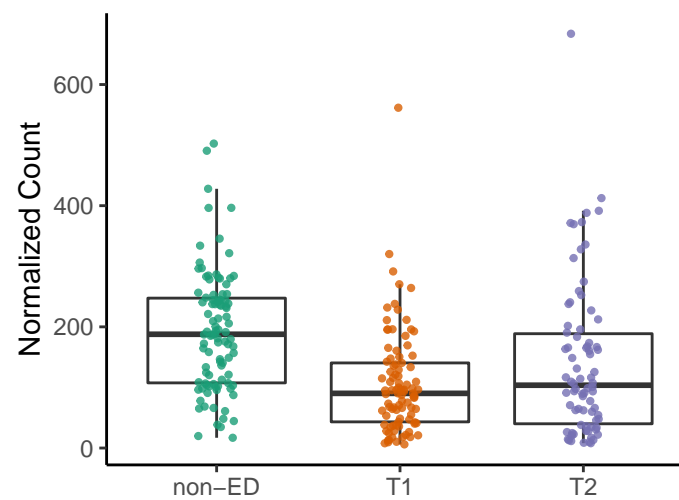
PWY-5347: superpathway of L-methio

non-ED vs. T1 adjusted $p = 9.2e-09$
non-ED vs. T2 adjusted $p = 4.5e-05$
T1 vs. T2 adjusted $p = 0.24$



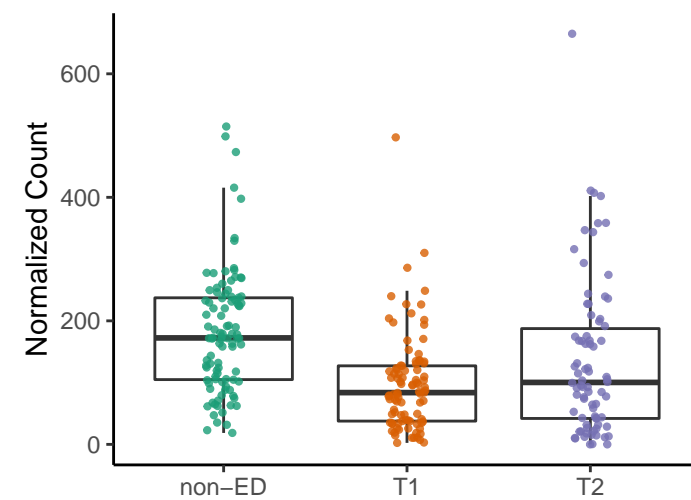
PWY-6507: 4-deoxy-L-threo-hex-4-

non-ED vs. T1 adjusted $p = 1.8e-08$
non-ED vs. T2 adjusted $p = 0.024$
T1 vs. T2 adjusted $p = 0.042$



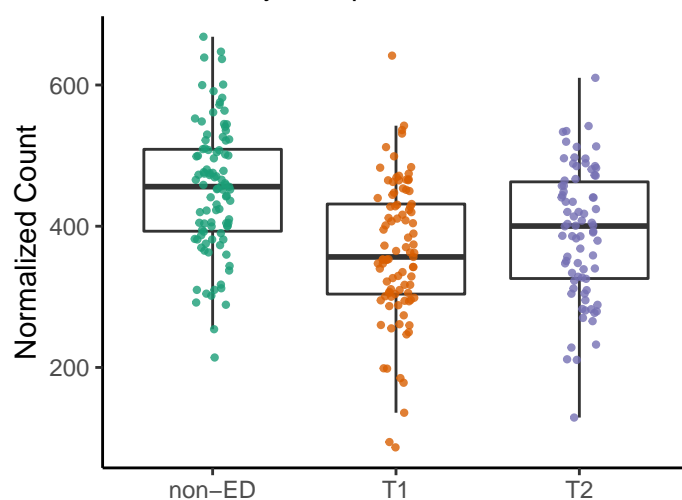
GALACTUROCAT-PWY: D-galacturon

non-ED vs. T1 adjusted $p = 1.9e-08$
non-ED vs. T2 adjusted $p = 0.045$
T1 vs. T2 adjusted $p = 0.029$



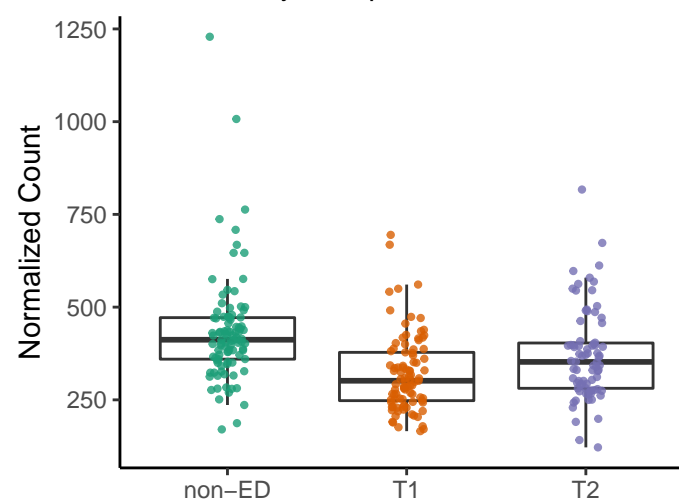
TRNA-CHARGING-PWY: tRNA chargi

non-ED vs. T1 adjusted $p = 1.9e-08$
non-ED vs. T2 adjusted $p = 0.00067$
T1 vs. T2 adjusted $p = 0.078$



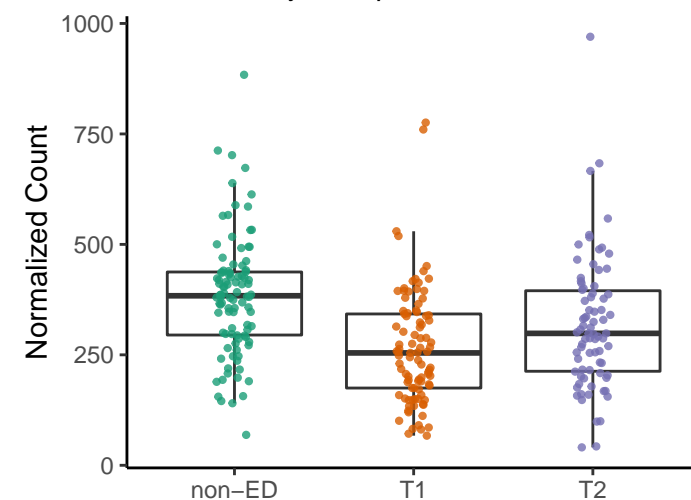
PWY-3001: superpathway of L-isoleu

non-ED vs. T1 adjusted $p = 8.9e-08$
non-ED vs. T2 adjusted $p = 0.021$
T1 vs. T2 adjusted $p = 0.0069$



PWY-7357: thiamin formation from py

non-ED vs. T1 adjusted $p = 9.8e-08$
non-ED vs. T2 adjusted $p = 0.025$
T1 vs. T2 adjusted $p = 0.011$

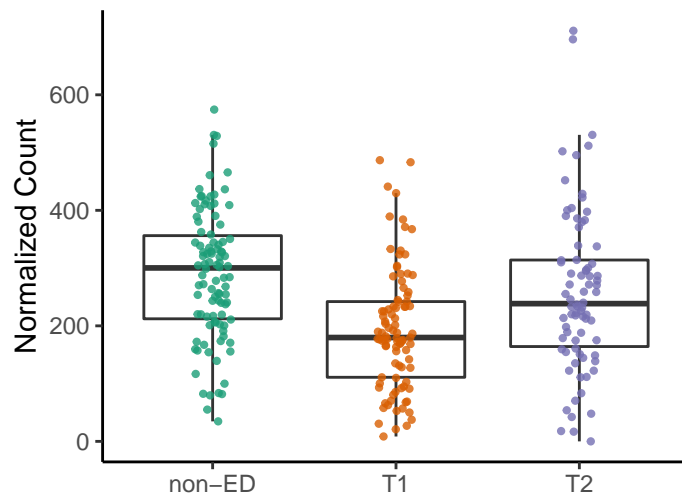


SER-GLYSYN-PWY: superpathway of

non-ED vs. T1 adjusted $p = 1.3e-07$

non-ED vs. T2 adjusted $p = 0.23$

T1 vs. T2 adjusted $p = 0.0045$

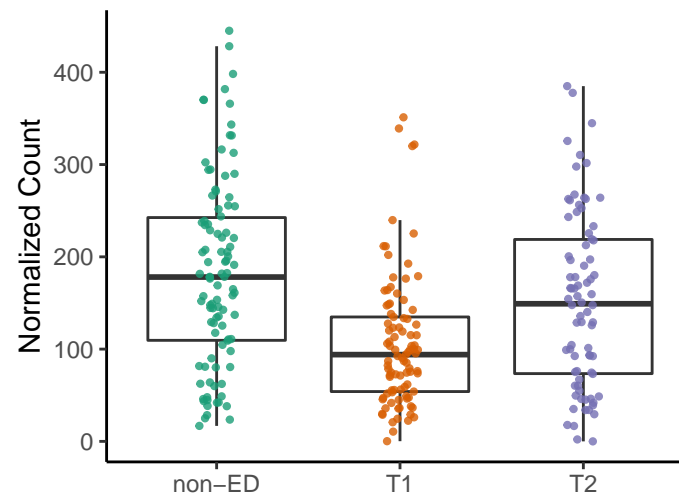


GLYCOGENSYNTH-PWY: glycogen bi

non-ED vs. T1 adjusted $p = 1.7e-07$

non-ED vs. T2 adjusted $p = 0.12$

T1 vs. T2 adjusted $p = 0.016$

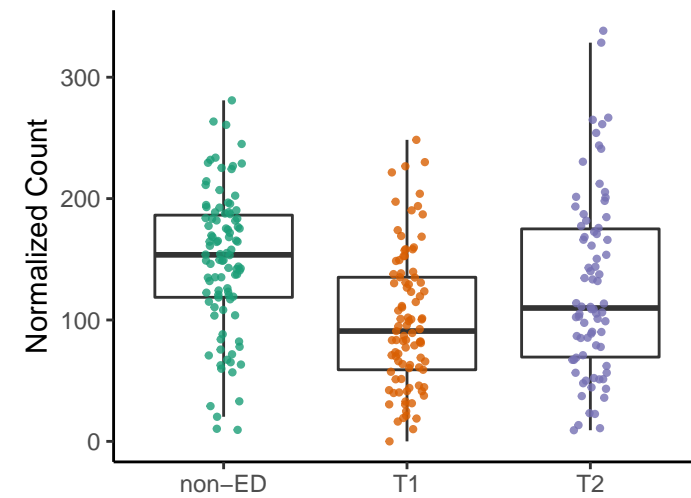


PWY-7199: pyrimidine deoxyribonucle

non-ED vs. T1 adjusted $p = 1.8e-07$

non-ED vs. T2 adjusted $p = 0.11$

T1 vs. T2 adjusted $p = 0.022$

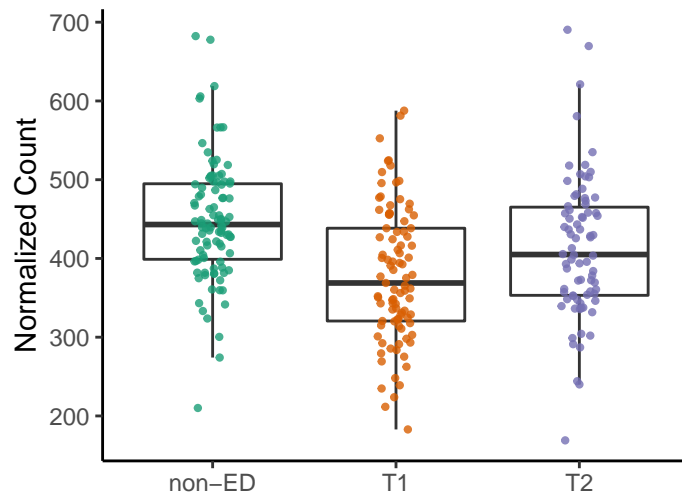


PWY-724: superpathway of L-lysine, L

non-ED vs. T1 adjusted $p = 2.6e-07$

non-ED vs. T2 adjusted $p = 0.041$

T1 vs. T2 adjusted $p = 0.024$

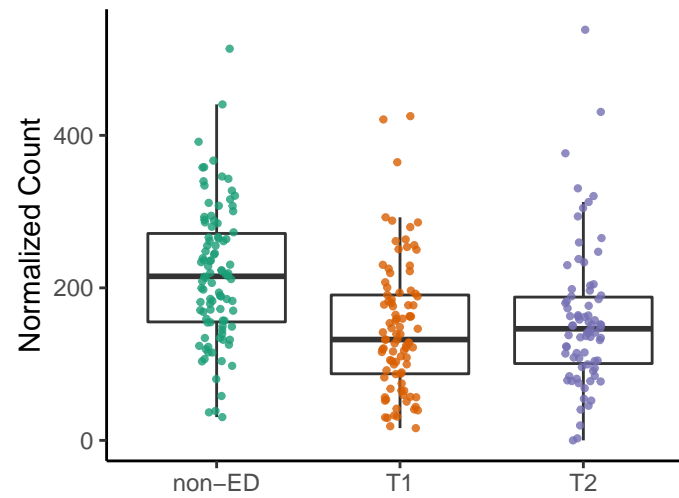


METSYN-PWY: L-homoserine and L-

non-ED vs. T1 adjusted $p = 9.3e-07$

non-ED vs. T2 adjusted $p = 0.00095$

T1 vs. T2 adjusted $p = 0.32$

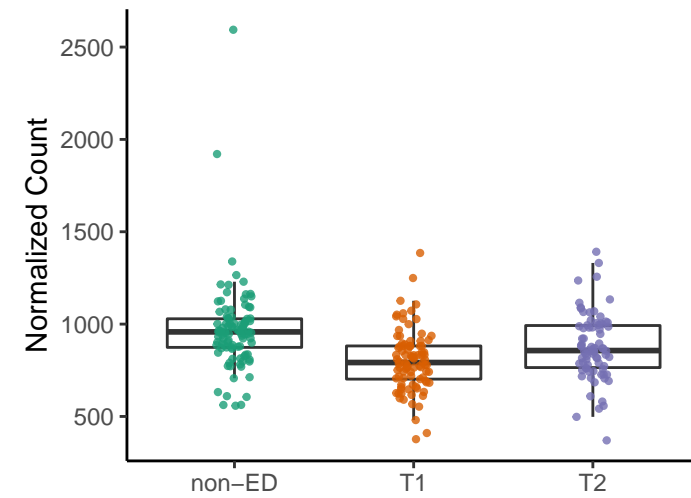


PWY-7219: adenosine ribonucleotides

non-ED vs. T1 adjusted $p = 1.1e-06$

non-ED vs. T2 adjusted $p = 0.028$

T1 vs. T2 adjusted $p = 0.02$

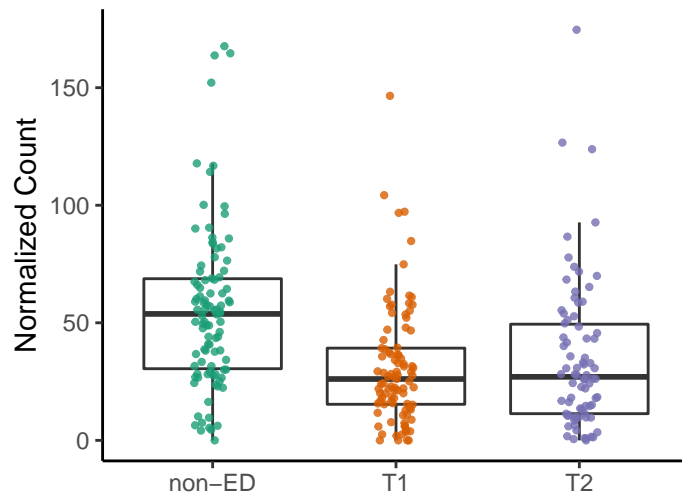


POLYAMSYN-PWY: superpathway of p

non-ED vs. T1 adjusted $p = 1.1e-06$

non-ED vs. T2 adjusted $p = 0.0013$

T1 vs. T2 adjusted $p = 0.43$

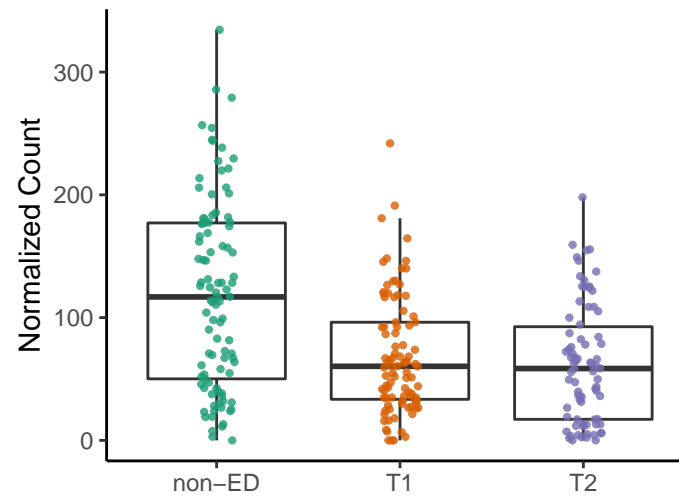


PWY0-781: aspartate superpathway

non-ED vs. T1 adjusted $p = 1.8e-06$

non-ED vs. T2 adjusted $p = 3.9e-06$

T1 vs. T2 adjusted $p = 0.6$

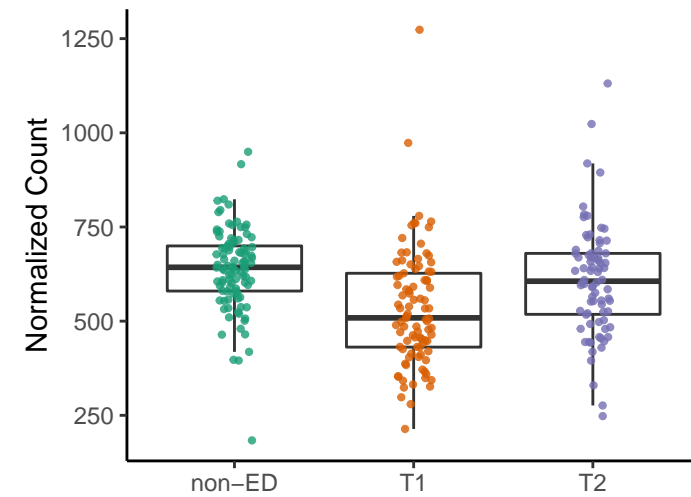


ARO-PWY: chorismate biosynthesis I

non-ED vs. T1 adjusted $p = 2.6e-06$

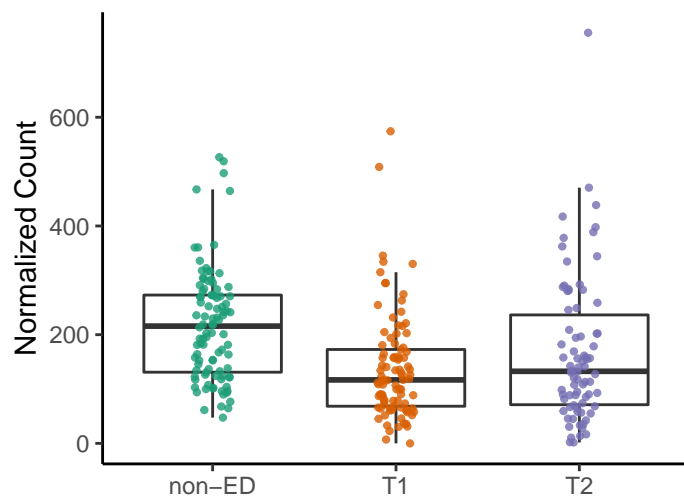
non-ED vs. T2 adjusted $p = 0.24$

T1 vs. T2 adjusted $p = 0.0058$



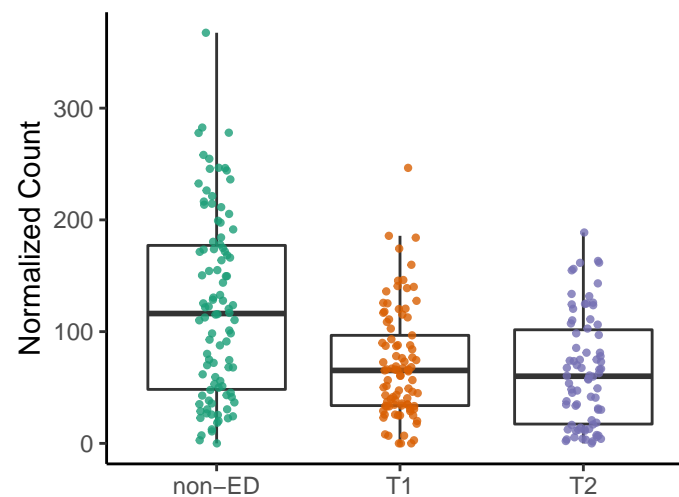
GLCMANNANAUT–PWY: superpathwa

non-ED vs. T1 adjusted $p = 2.8\text{e-}06$
non-ED vs. T2 adjusted $p = 0.041$
T1 vs. T2 adjusted $p = 0.071$



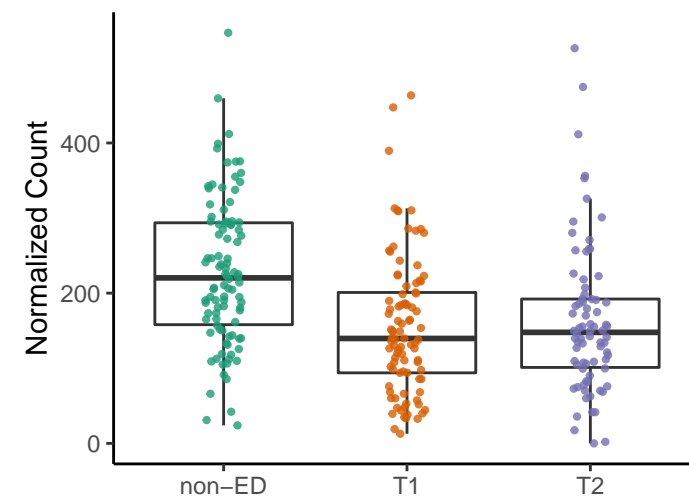
P4–PWY: superpathway of L-lysine, L-

non-ED vs. T1 adjusted $p = 3.1\text{e-}06$
non-ED vs. T2 adjusted $p = 3.9\text{e-}06$
T1 vs. T2 adjusted $p = 0.59$



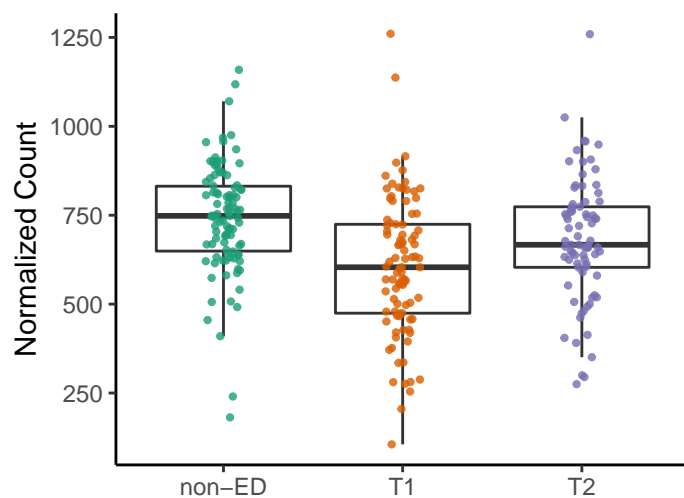
MET–SAM–PWY: superpathway of S-a

non-ED vs. T1 adjusted $p = 3.5\text{e-}06$
non-ED vs. T2 adjusted $p = 0.00095$
T1 vs. T2 adjusted $p = 0.49$



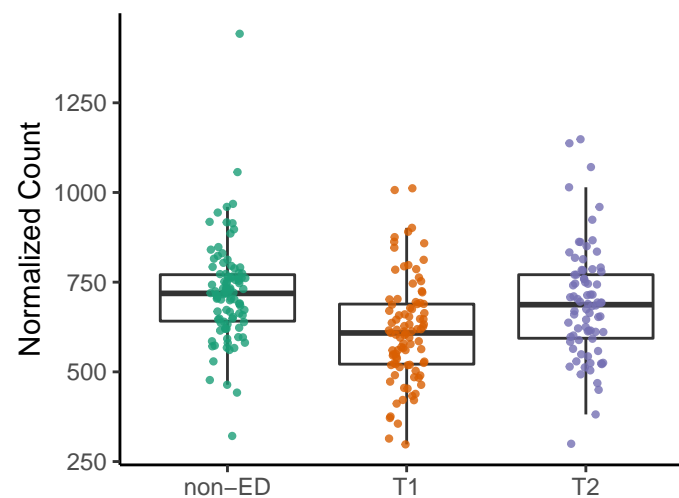
PWY–6737: starch degradation V

non-ED vs. T1 adjusted $p = 3.7\text{e-}06$
non-ED vs. T2 adjusted $p = 0.073$
T1 vs. T2 adjusted $p = 0.019$



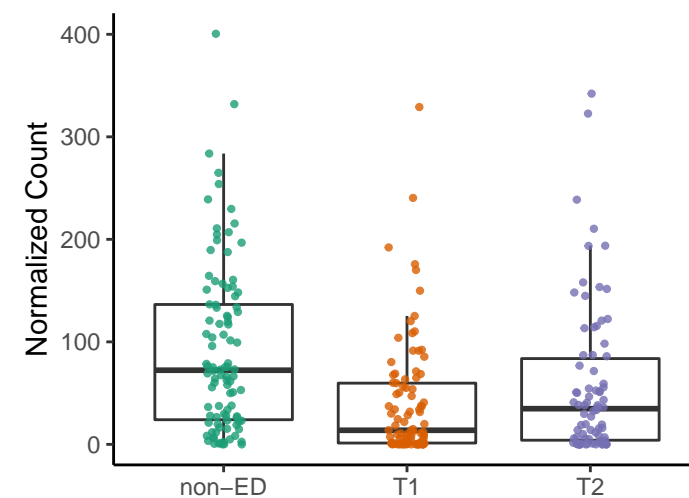
PWY–5686: UMP biosynthesis

non-ED vs. T1 adjusted $p = 4.7\text{e-}06$
non-ED vs. T2 adjusted $p = 0.31$
T1 vs. T2 adjusted $p = 0.011$



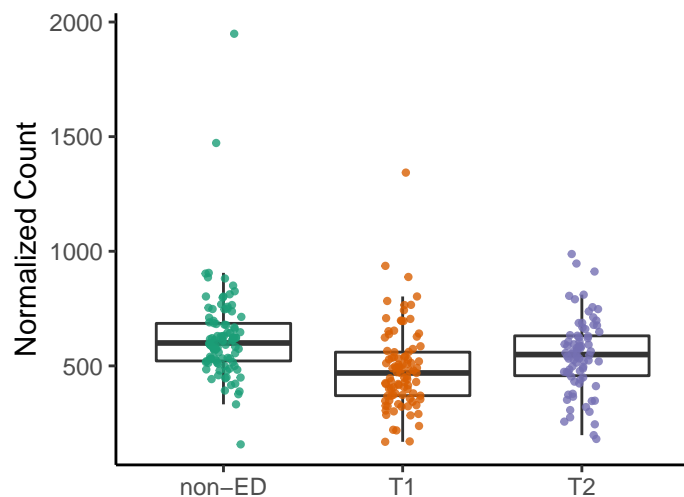
PWY–5367: petroselinic acid biosynthesis

non-ED vs. T1 adjusted $p = 9.1\text{e-}06$
non-ED vs. T2 adjusted $p = 0.025$
T1 vs. T2 adjusted $p = 0.29$



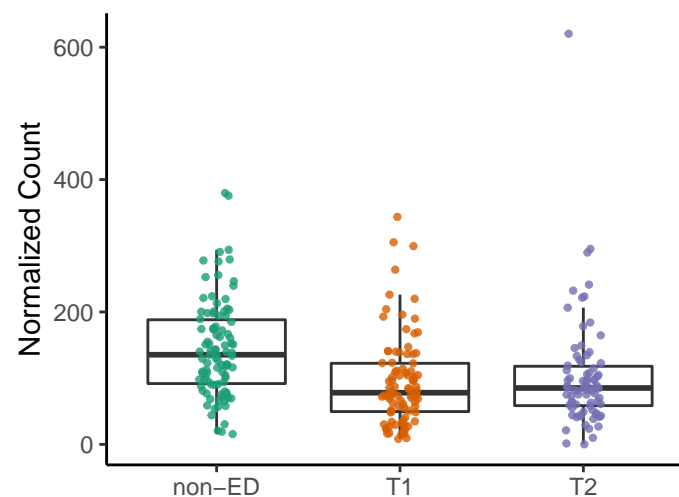
PWY–6151: S-adenosyl-L-methionin

non-ED vs. T1 adjusted $p = 1.5\text{e-}05$
non-ED vs. T2 adjusted $p = 0.033$
T1 vs. T2 adjusted $p = 0.011$



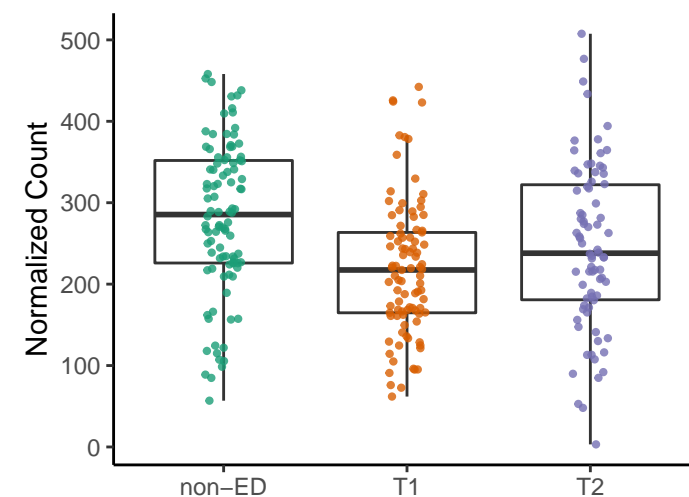
HOMOSER–METSYN–PWY: L-methio

non-ED vs. T1 adjusted $p = 1.9\text{e-}05$
non-ED vs. T2 adjusted $p = 0.01$
T1 vs. T2 adjusted $p = 0.32$



PWY–6527: stachyose degradation

non-ED vs. T1 adjusted $p = 2.8\text{e-}05$
non-ED vs. T2 adjusted $p = 0.076$
T1 vs. T2 adjusted $p = 0.13$

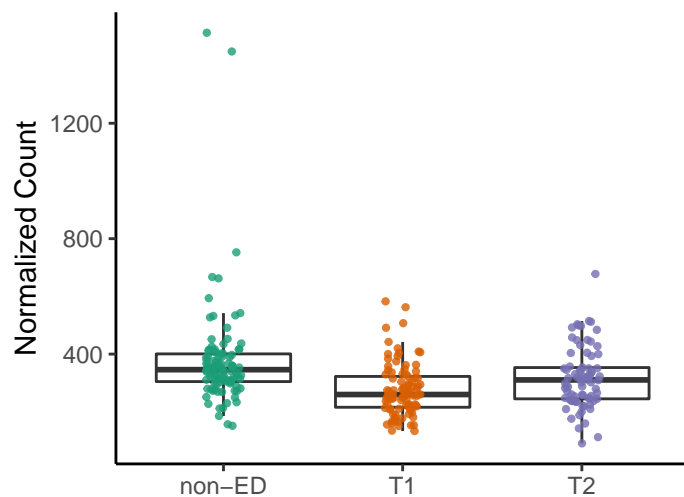


THRESYN-PWY: superpathway of L-

non-ED vs. T1 adjusted $p = 2.8e-05$

non-ED vs. T2 adjusted $p = 0.041$

T1 vs. T2 adjusted $p = 0.016$

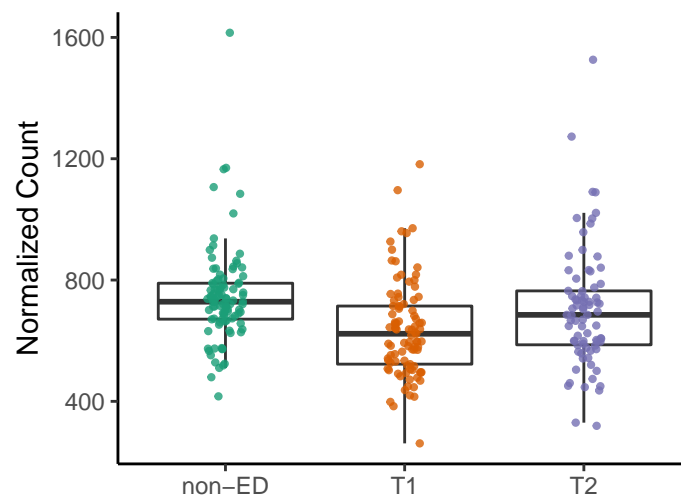


ILEUSYN-PWY: L-isoleucine biosynt

non-ED vs. T1 adjusted $p = 3.4e-05$

non-ED vs. T2 adjusted $p = 0.23$

T1 vs. T2 adjusted $p = 0.027$

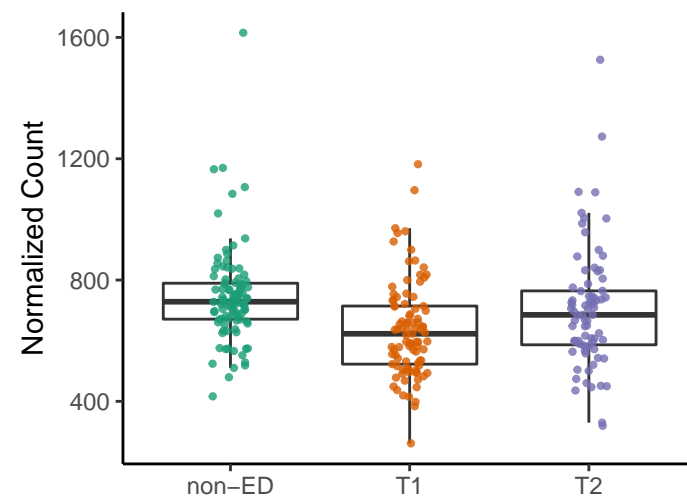


VALSYN-PWY: L-valine biosynthesis

non-ED vs. T1 adjusted $p = 3.4e-05$

non-ED vs. T2 adjusted $p = 0.23$

T1 vs. T2 adjusted $p = 0.027$

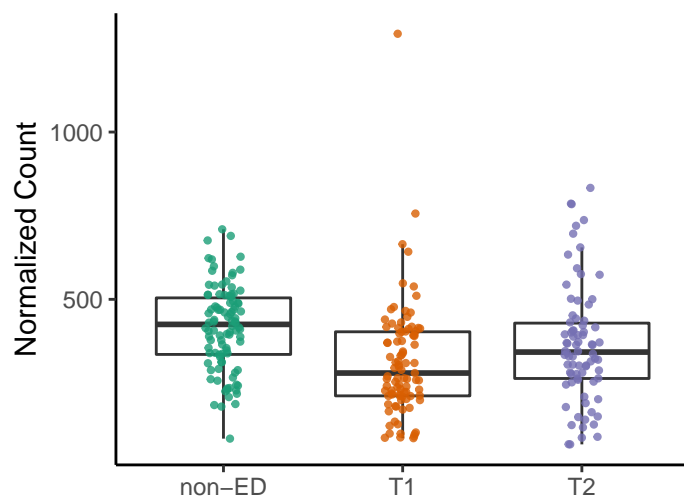


NONOXIPENT-PWY: pentose phosph

non-ED vs. T1 adjusted $p = 3.5e-05$

non-ED vs. T2 adjusted $p = 0.093$

T1 vs. T2 adjusted $p = 0.022$

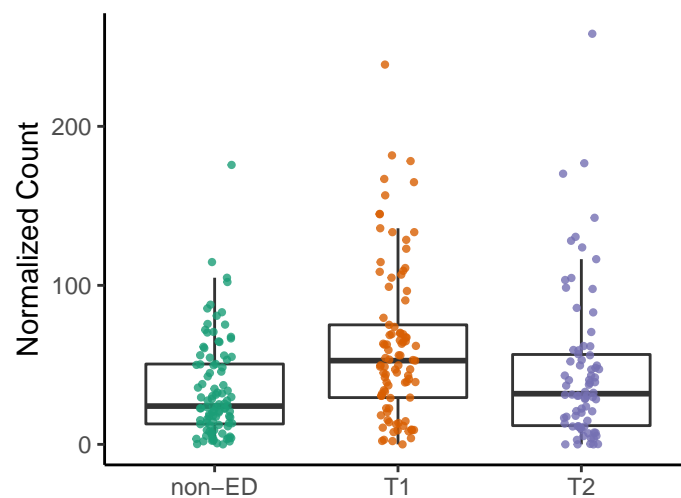


PWY-1269: CMP-3-deoxy-D-manno-

non-ED vs. T1 adjusted $p = 4e-05$

non-ED vs. T2 adjusted $p = 0.14$

T1 vs. T2 adjusted $p = 0.025$

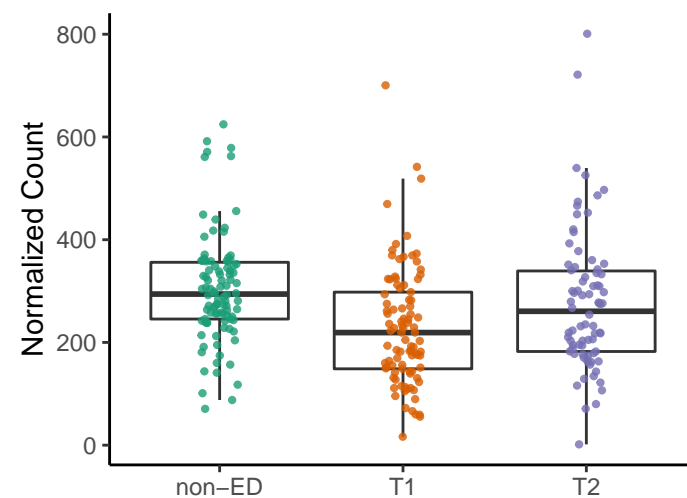


PWY-6123: inosine-5'-phosphate bios

non-ED vs. T1 adjusted $p = 4e-05$

non-ED vs. T2 adjusted $p = 0.27$

T1 vs. T2 adjusted $p = 0.017$

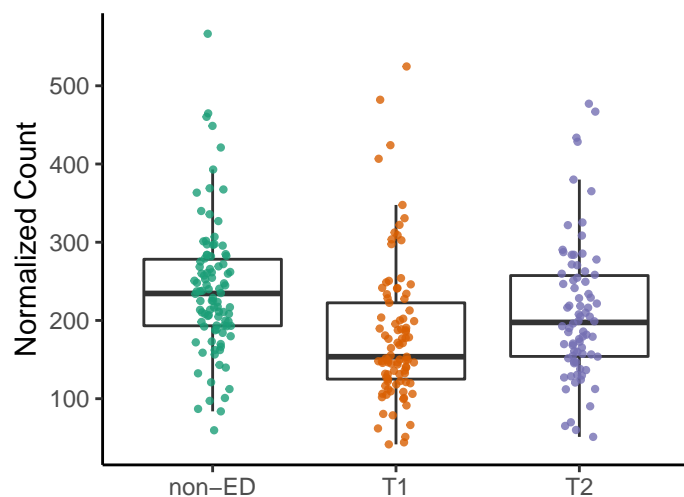


PWY-5100: pyruvate fermentation to a

non-ED vs. T1 adjusted $p = 4.7e-05$

non-ED vs. T2 adjusted $p = 0.093$

T1 vs. T2 adjusted $p = 0.05$

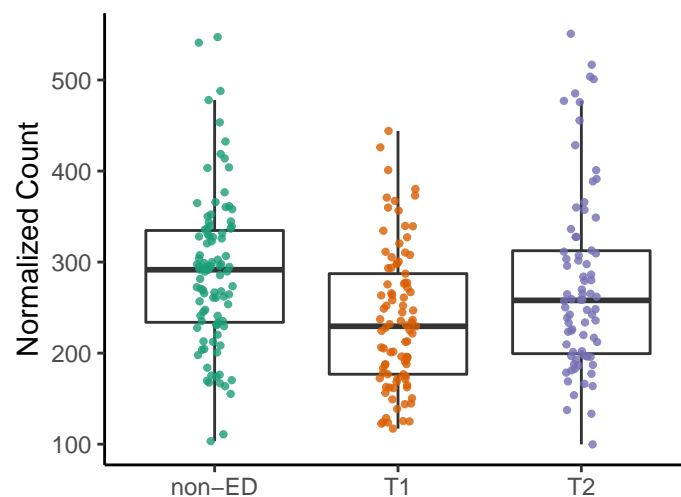


PWY-6609: adenine and adenosine sa

non-ED vs. T1 adjusted $p = 8.6e-05$

non-ED vs. T2 adjusted $p = 0.49$

T1 vs. T2 adjusted $p = 0.022$

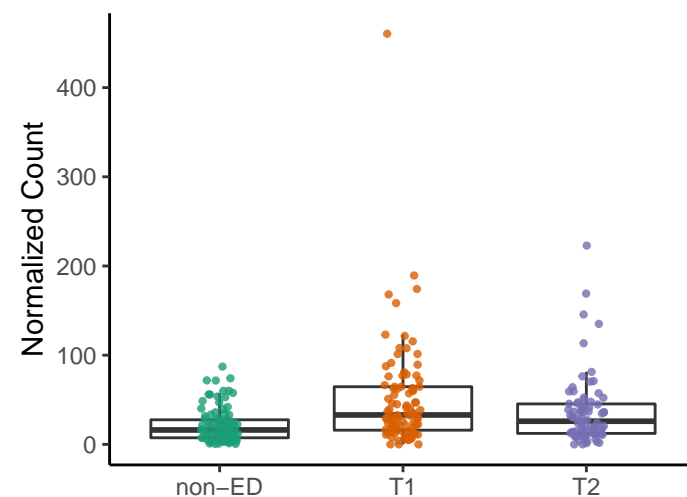


CITRULBIO-PWY: L-citrulline biosynth

non-ED vs. T1 adjusted $p = 9.4e-05$

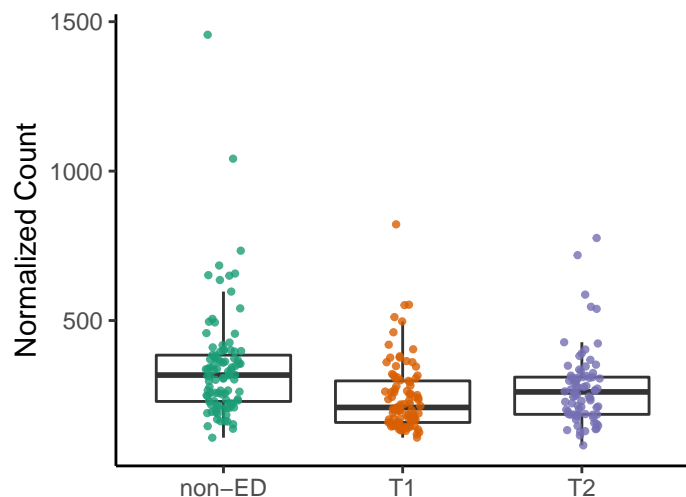
non-ED vs. T2 adjusted $p = 0.021$

T1 vs. T2 adjusted $p = 0.11$



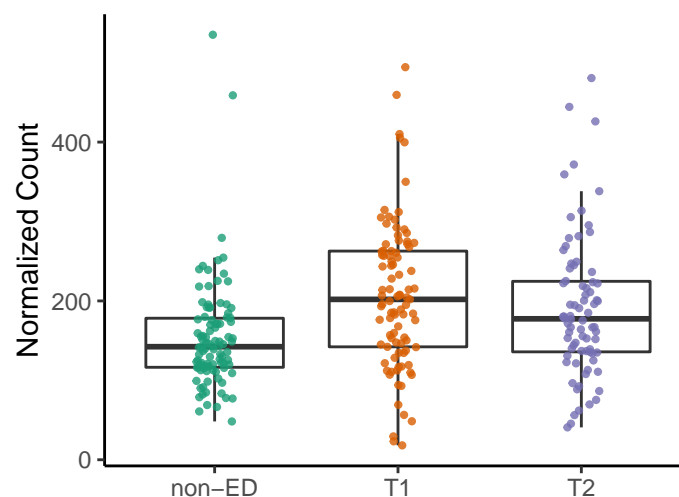
HISTSYN-PWY: L-histidine biosynthe

non-ED vs. T1 adjusted $p = 0.00011$
non-ED vs. T2 adjusted $p = 0.025$
T1 vs. T2 adjusted $p = 0.027$



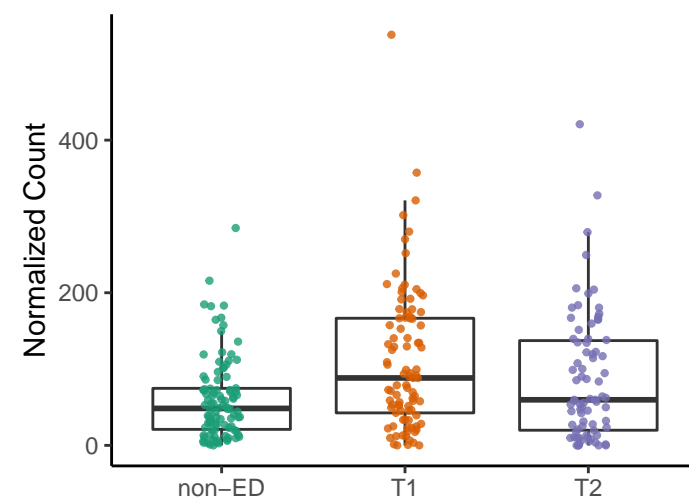
PWY-7228: superpathway of guanosin

non-ED vs. T1 adjusted $p = 0.00011$
non-ED vs. T2 adjusted $p = 0.025$
T1 vs. T2 adjusted $p = 0.15$



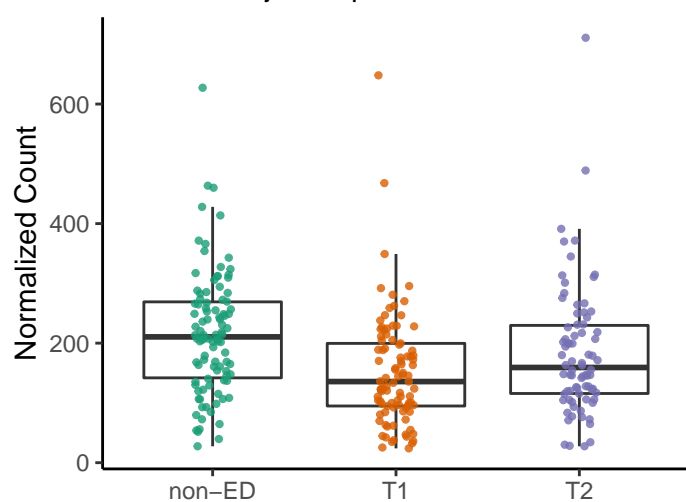
PYRIDOXSYN-PWY: pyridoxal 5'-phos

non-ED vs. T1 adjusted $p = 0.00011$
non-ED vs. T2 adjusted $p = 0.067$
T1 vs. T2 adjusted $p = 0.042$



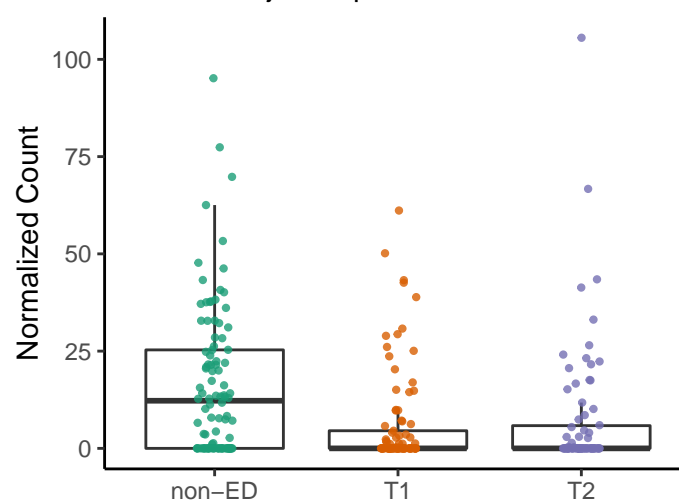
THISYNARA-PWY: superpathway of th

non-ED vs. T1 adjusted $p = 0.00011$
non-ED vs. T2 adjusted $p = 0.13$
T1 vs. T2 adjusted $p = 0.018$



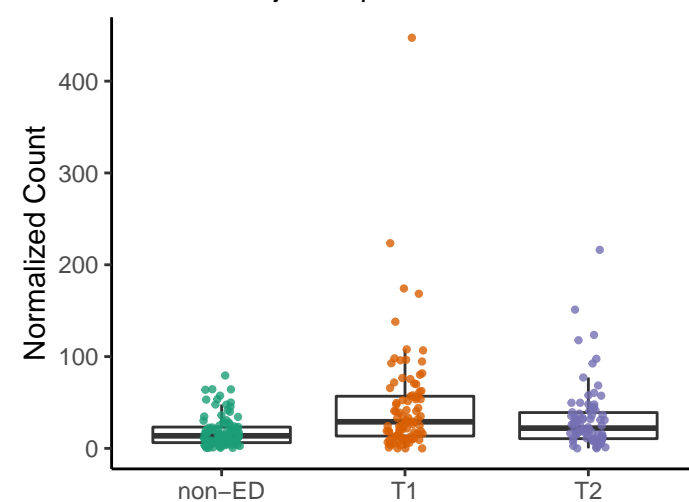
PWY-7209: superpathway of pyrimidin

non-ED vs. T1 adjusted $p = 0.00014$
non-ED vs. T2 adjusted $p = 0.011$
T1 vs. T2 adjusted $p = 0.57$



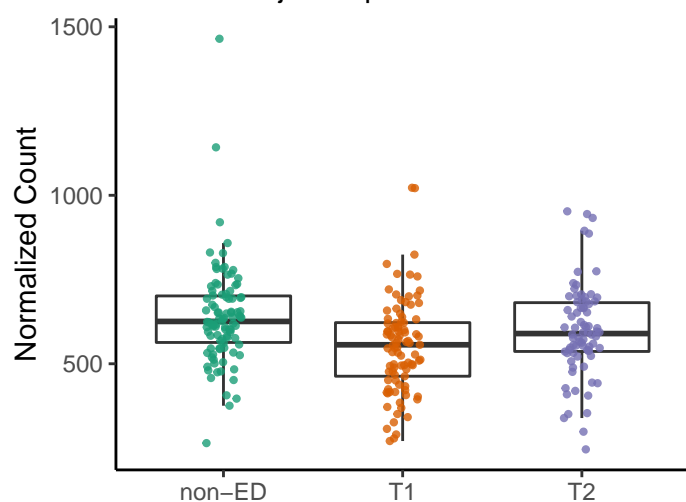
PWY-4984: urea cycle

non-ED vs. T1 adjusted $p = 0.00019$
non-ED vs. T2 adjusted $p = 0.021$
T1 vs. T2 adjusted $p = 0.12$



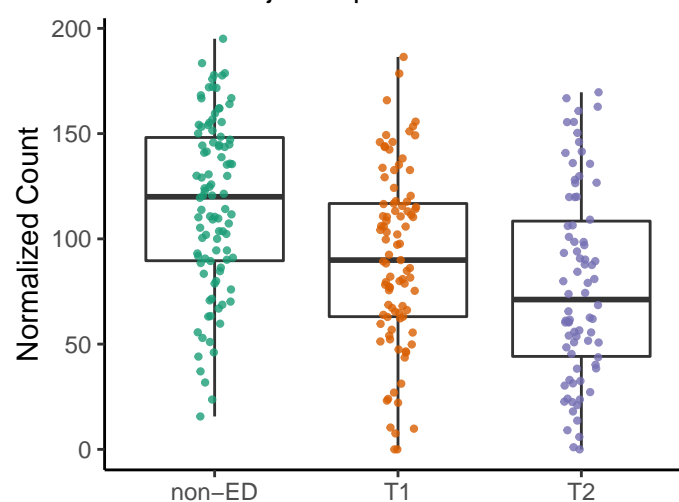
COA-PWY-1: coenzyme A biosynthe

non-ED vs. T1 adjusted $p = 0.00022$
non-ED vs. T2 adjusted $p = 0.13$
T1 vs. T2 adjusted $p = 0.033$



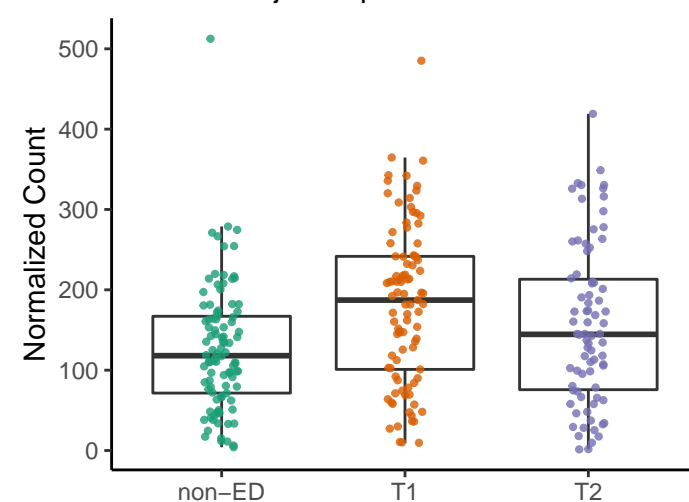
PRPP-PWY: superpathway of histidine

non-ED vs. T1 adjusted $p = 0.00022$
non-ED vs. T2 adjusted $p = 3.9e-06$
T1 vs. T2 adjusted $p = 0.029$



PWY-7663: gondoate biosynthesis (an

non-ED vs. T1 adjusted $p = 0.00022$
non-ED vs. T2 adjusted $p = 0.096$
T1 vs. T2 adjusted $p = 0.021$

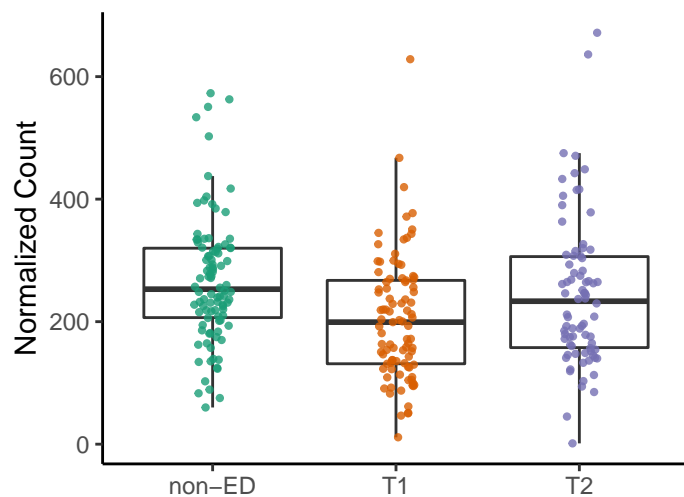


PWY-6124: inosine-5'-phosphate biosynthesis

non-ED vs. T1 adjusted $p = 0.00022$

non-ED vs. T2 adjusted $p = 0.34$

T1 vs. T2 adjusted $p = 0.018$

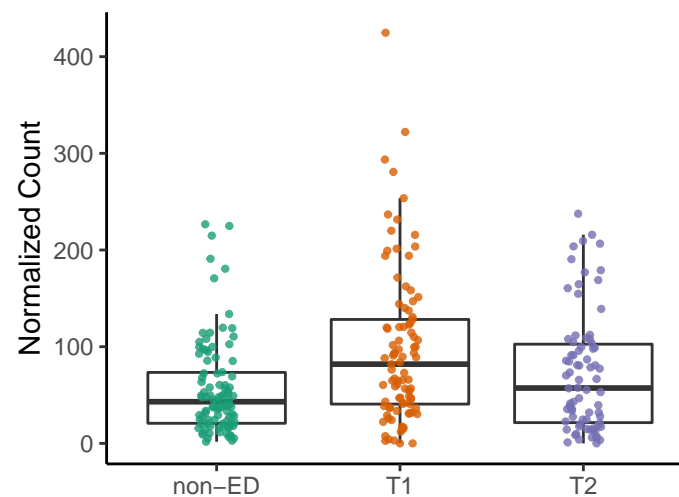


PWY-5484: glycolysis II (from fructose)

non-ED vs. T1 adjusted $p = 0.00023$

non-ED vs. T2 adjusted $p = 0.15$

T1 vs. T2 adjusted $p = 0.063$

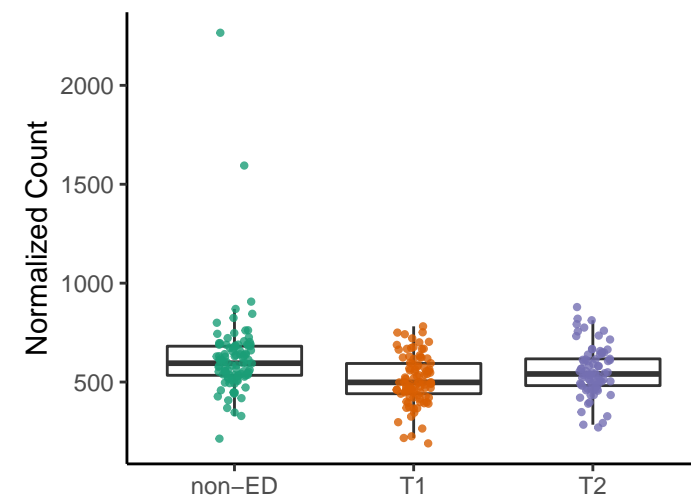


NONMEVIPPP-WPY: methylerythritol pathway

non-ED vs. T1 adjusted $p = 0.00025$

non-ED vs. T2 adjusted $p = 0.065$

T1 vs. T2 adjusted $p = 0.047$

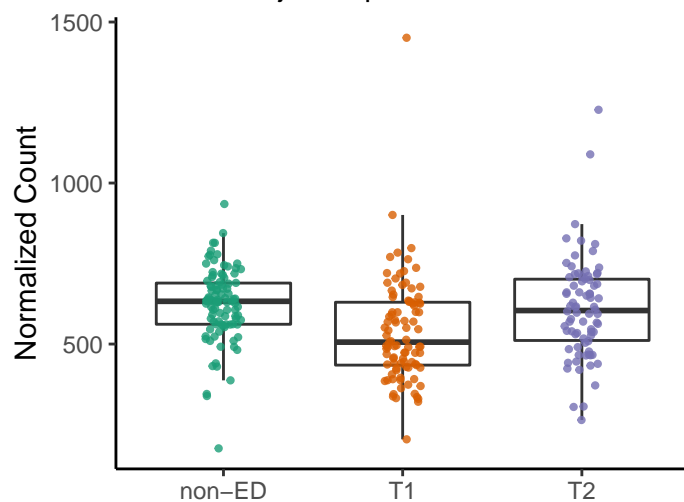


PWY-6163: chorismate biosynthesis

non-ED vs. T1 adjusted $p = 0.00026$

non-ED vs. T2 adjusted $p = 0.6$

T1 vs. T2 adjusted $p = 0.0099$

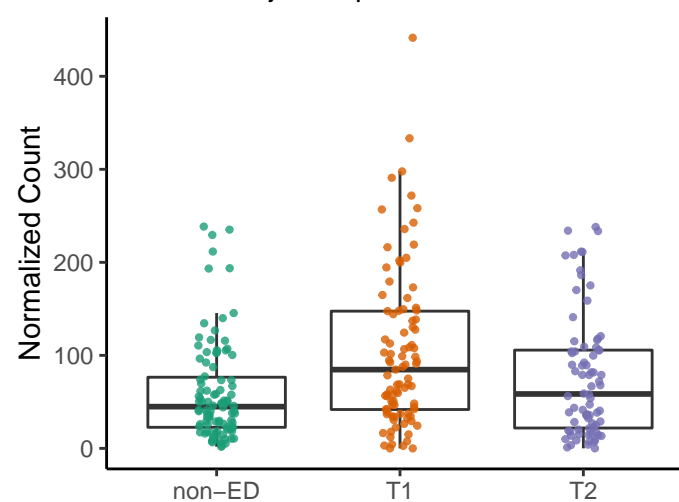


GLYCOLYSIS: glycolysis I (from glucose)

non-ED vs. T1 adjusted $p = 0.00026$

non-ED vs. T2 adjusted $p = 0.17$

T1 vs. T2 adjusted $p = 0.064$

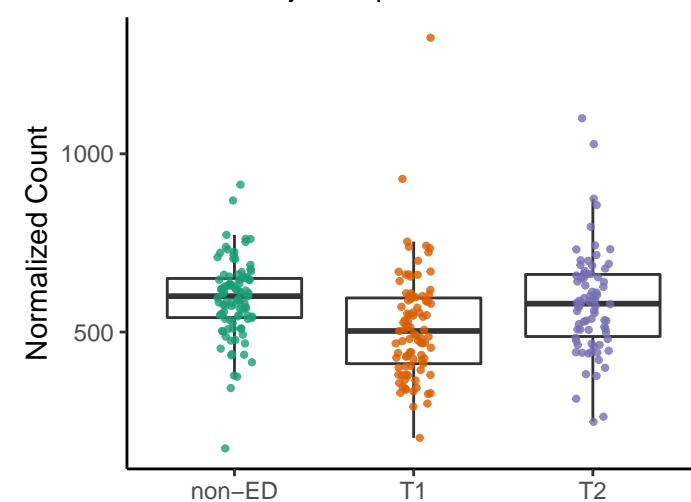


COMPLETE-ARO-PWY: superpathway of aromatic amino acid biosynthesis

non-ED vs. T1 adjusted $p = 0.00029$

non-ED vs. T2 adjusted $p = 0.64$

T1 vs. T2 adjusted $p = 0.0069$

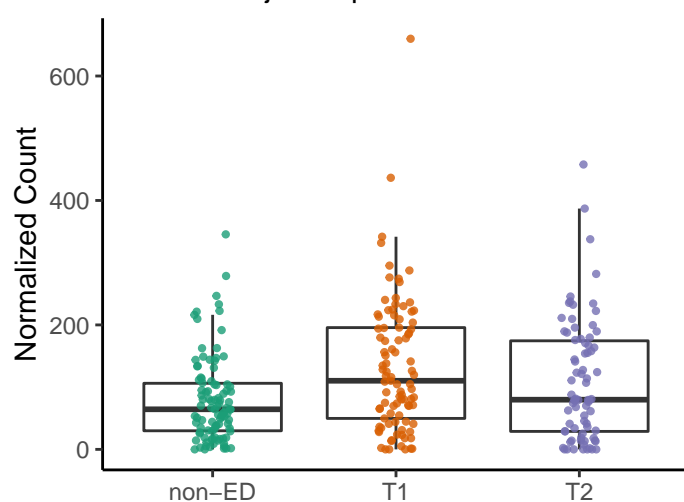


PWY0-845: superpathway of pyridoxal

non-ED vs. T1 adjusted $p = 0.00046$

non-ED vs. T2 adjusted $p = 0.09$

T1 vs. T2 adjusted $p = 0.063$

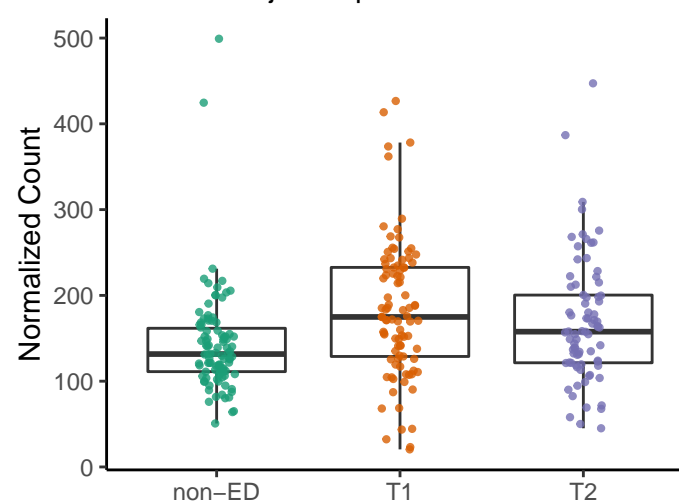


PWY-6125: superpathway of guanosine

non-ED vs. T1 adjusted $p = 0.00052$

non-ED vs. T2 adjusted $p = 0.049$

T1 vs. T2 adjusted $p = 0.12$

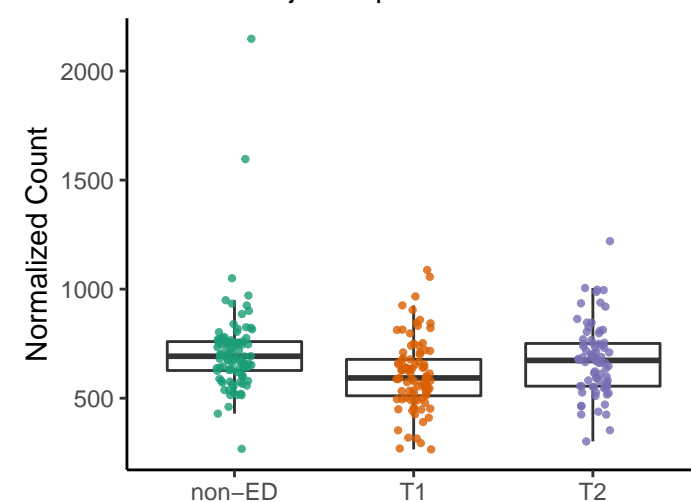


PWY-6387: UDP-N-acetylmuramoyl-L-alanine

non-ED vs. T1 adjusted $p = 0.00065$

non-ED vs. T2 adjusted $p = 0.28$

T1 vs. T2 adjusted $p = 0.021$

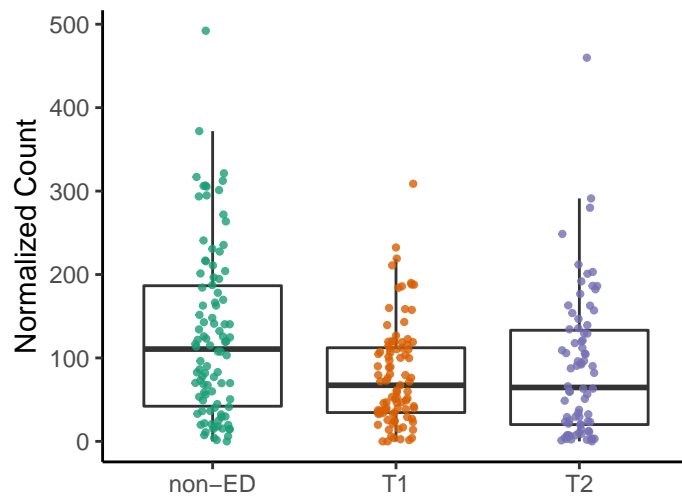


DAPLYSINESYN-PWY: L-lysine biosyn

non-ED vs. T1 adjusted $p = 0.00074$

non-ED vs. T2 adjusted $p = 0.041$

T1 vs. T2 adjusted $p = 0.37$

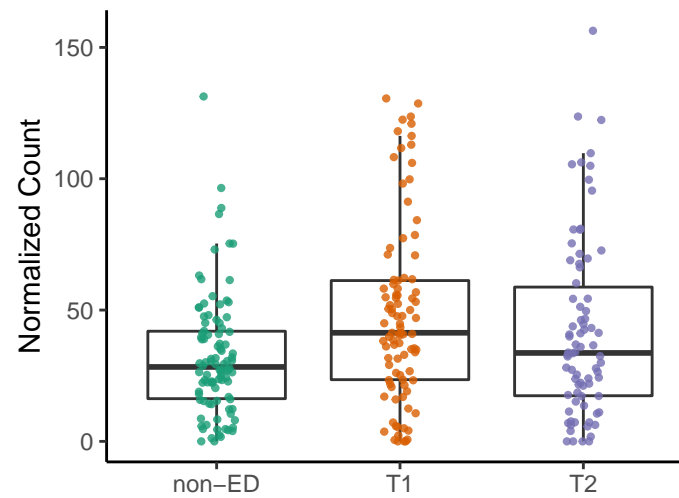


PWY66-399: gluconeogenesis III

non-ED vs. T1 adjusted $p = 0.00074$

non-ED vs. T2 adjusted $p = 0.093$

T1 vs. T2 adjusted $p = 0.11$

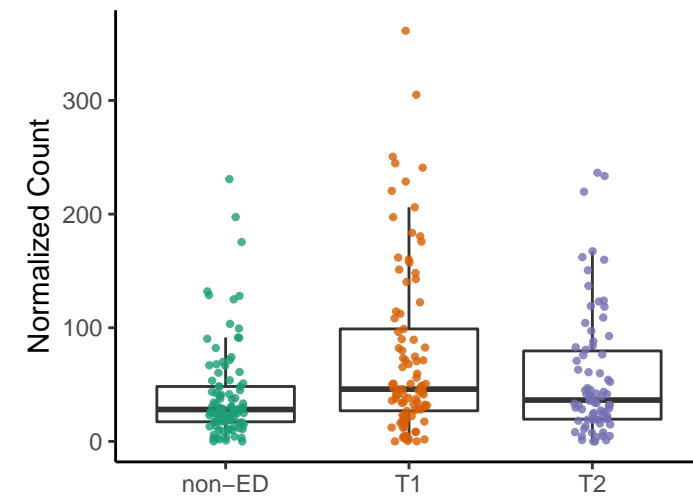


PWY66-400: glycolysis VI (metazoan)

non-ED vs. T1 adjusted $p = 0.00082$

non-ED vs. T2 adjusted $p = 0.12$

T1 vs. T2 adjusted $p = 0.065$

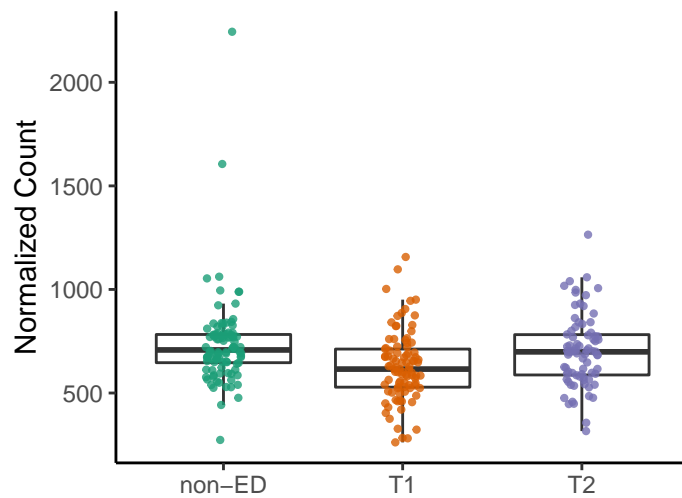


PWY-6386: UDP-N-acetylmuramoyl-

non-ED vs. T1 adjusted $p = 0.00091$

non-ED vs. T2 adjusted $p = 0.39$

T1 vs. T2 adjusted $p = 0.018$

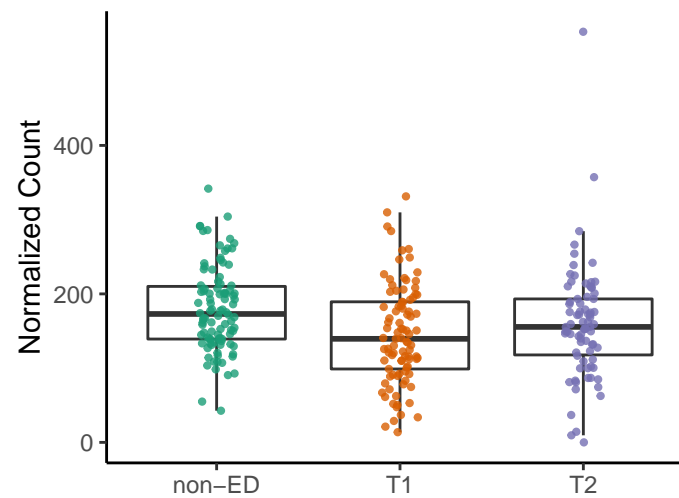


PYRIDNUCSYN-PWY: NAD biosynthe

non-ED vs. T1 adjusted $p = 0.00092$

non-ED vs. T2 adjusted $p = 0.14$

T1 vs. T2 adjusted $p = 0.19$

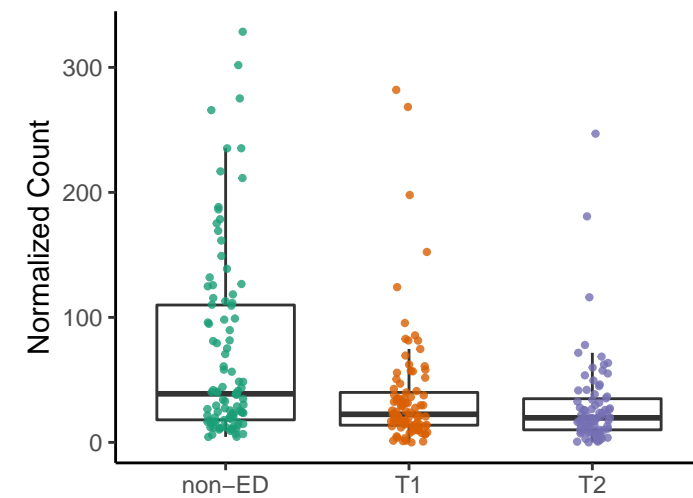


PENTOSE-P-PWY: pentose phosphat

non-ED vs. T1 adjusted $p = 0.0011$

non-ED vs. T2 adjusted $p = 0.00017$

T1 vs. T2 adjusted $p = 0.29$

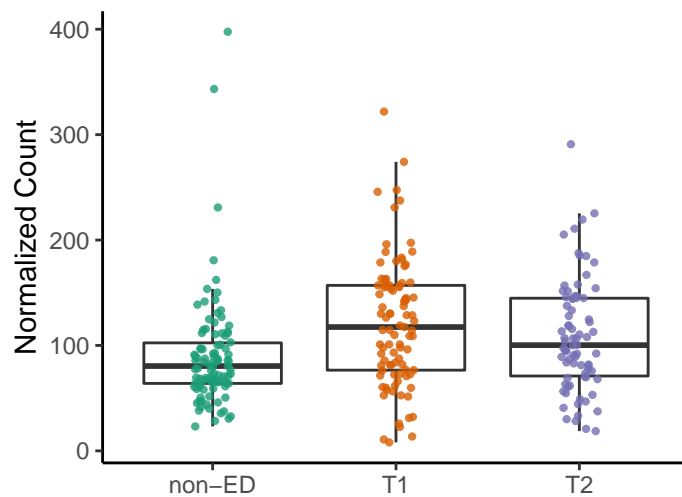


PWY-7197: pyrimidine deoxyribonucle

non-ED vs. T1 adjusted $p = 0.0011$

non-ED vs. T2 adjusted $p = 0.089$

T1 vs. T2 adjusted $p = 0.15$

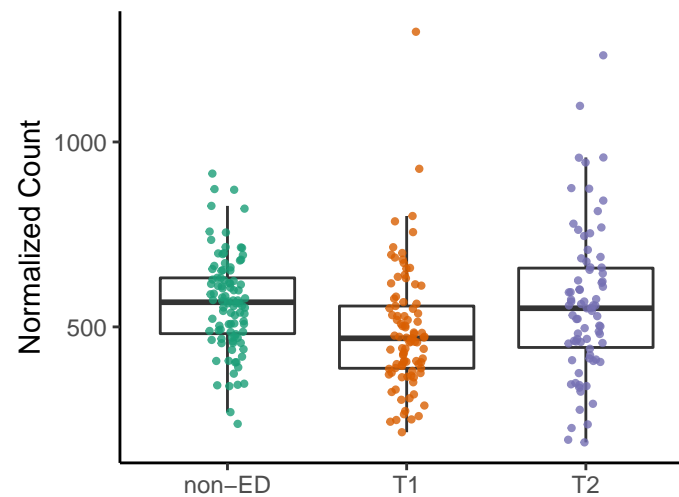


PWY-1042: glycolysis IV (plant cytosol)

non-ED vs. T1 adjusted $p = 0.0013$

non-ED vs. T2 adjusted $p = 0.96$

T1 vs. T2 adjusted $p = 0.027$

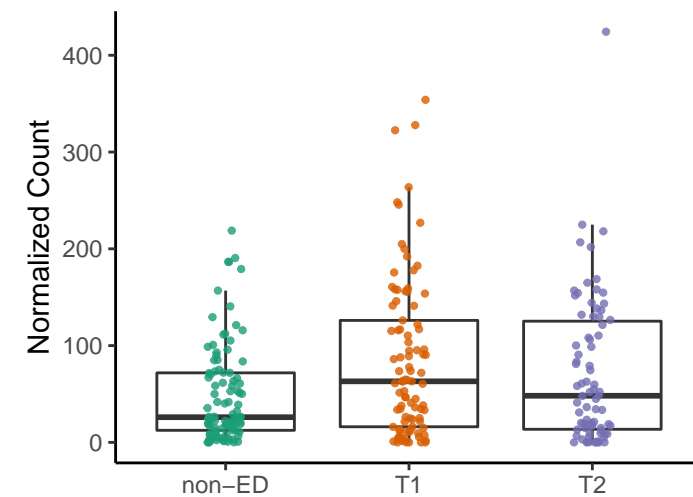


ARGININE-SYN4-PWY: L-ornithine de

non-ED vs. T1 adjusted $p = 0.0015$

non-ED vs. T2 adjusted $p = 0.089$

T1 vs. T2 adjusted $p = 0.12$

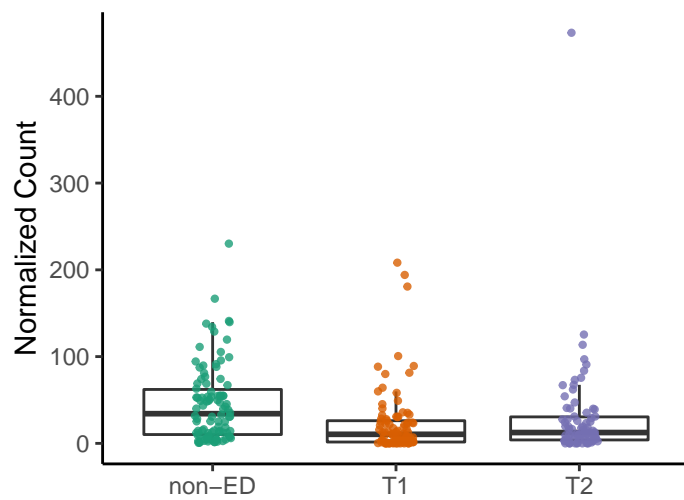


PWY-5304: superpathway of sulfur ox

non-ED vs. T1 adjusted $p = 0.0016$

non-ED vs. T2 adjusted $p = 0.12$

T1 vs. T2 adjusted $p = 0.36$

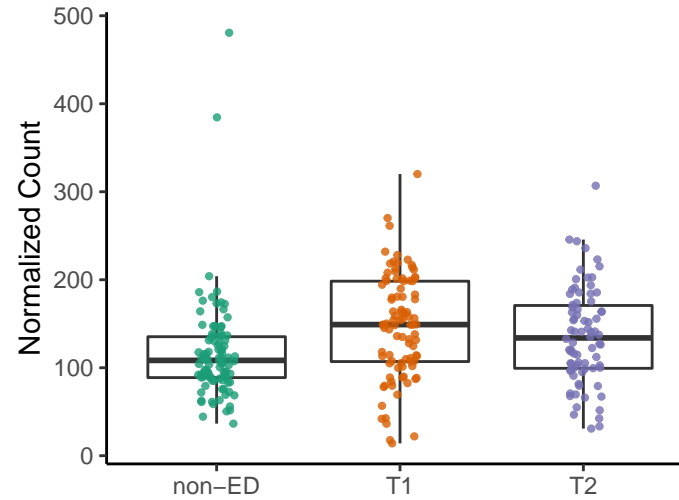


PWY-7184: pyrimidine deoxyribonucle

non-ED vs. T1 adjusted $p = 0.0017$

non-ED vs. T2 adjusted $p = 0.093$

T1 vs. T2 adjusted $p = 0.14$

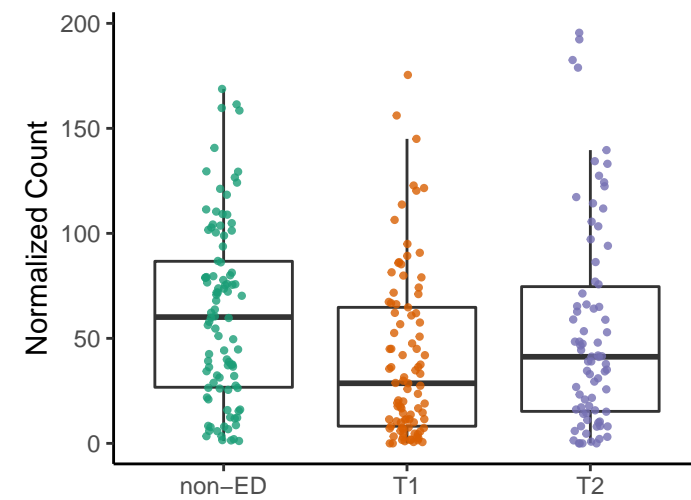


PWY-5989: stearate biosynthesis II (ba

non-ED vs. T1 adjusted $p = 0.0018$

non-ED vs. T2 adjusted $p = 0.39$

T1 vs. T2 adjusted $p = 0.17$

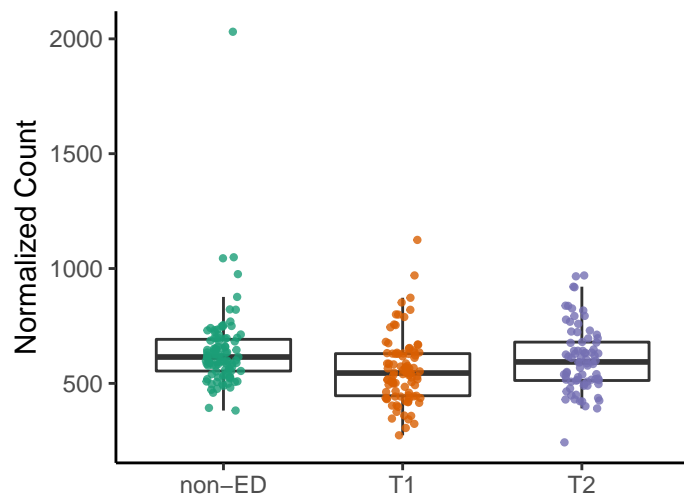


PWY-6121: 5-aminoimidazole ribonuc

non-ED vs. T1 adjusted $p = 0.0019$

non-ED vs. T2 adjusted $p = 0.27$

T1 vs. T2 adjusted $p = 0.019$

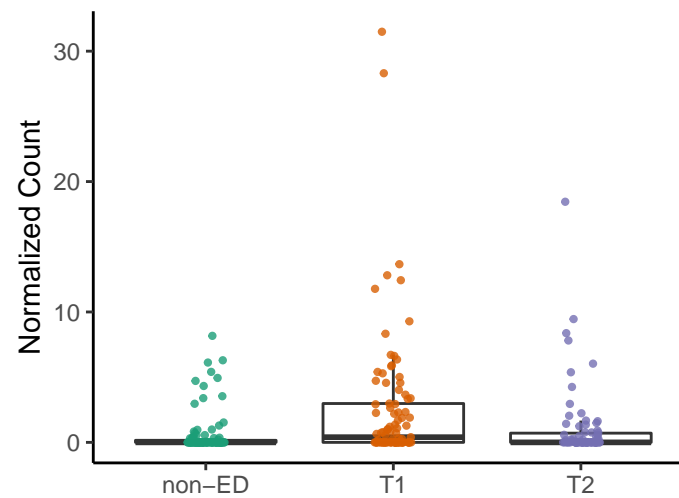


7ALPHADEHYDROX-PWY: cholate deg

non-ED vs. T1 adjusted $p = 0.0021$

non-ED vs. T2 adjusted $p = 0.33$

T1 vs. T2 adjusted $p = 0.03$

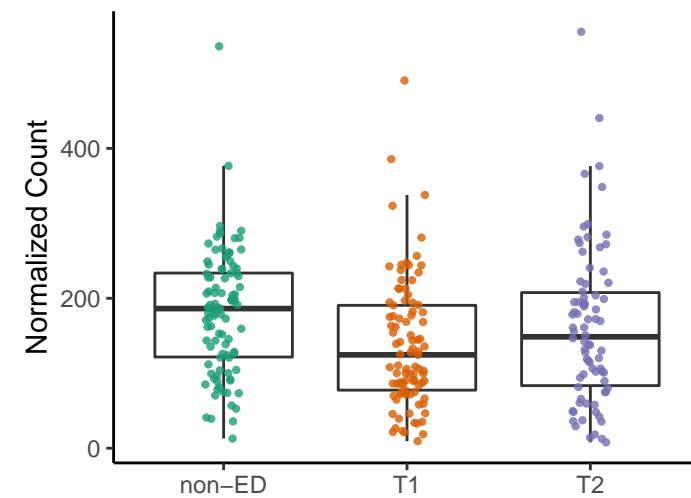


ASPASN-PWY: superpathway of L-aspa

non-ED vs. T1 adjusted $p = 0.0021$

non-ED vs. T2 adjusted $p = 0.28$

T1 vs. T2 adjusted $p = 0.074$

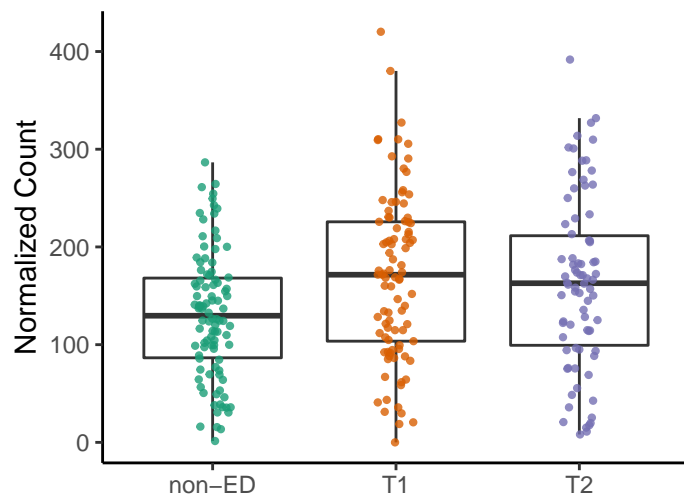


PWY-6168: flavin biosynthesis III (fung

non-ED vs. T1 adjusted $p = 0.0021$

non-ED vs. T2 adjusted $p = 0.041$

T1 vs. T2 adjusted $p = 0.36$

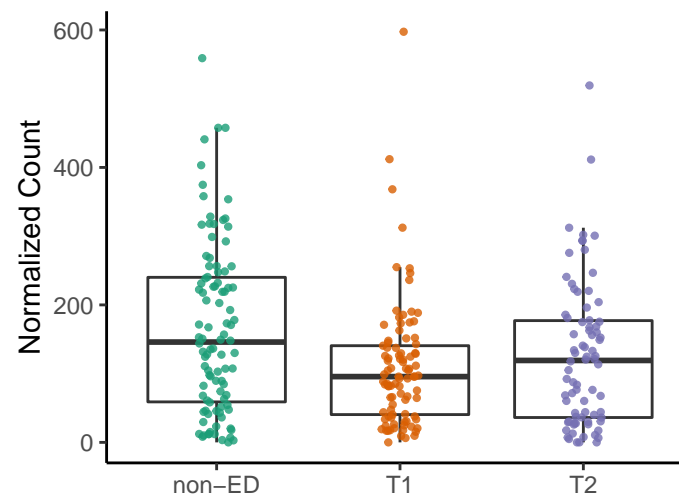


OANTIGEN-PWY: O-antigen building I

non-ED vs. T1 adjusted $p = 0.0026$

non-ED vs. T2 adjusted $p = 0.091$

T1 vs. T2 adjusted $p = 0.14$

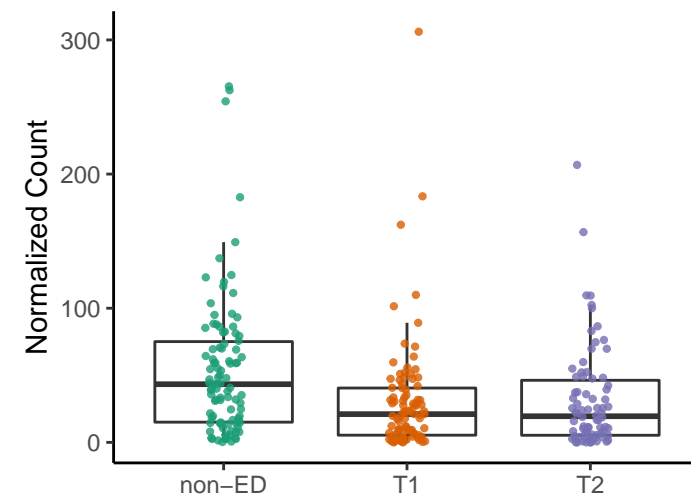


LACTOSECAT-PWY: lactose and galac

non-ED vs. T1 adjusted $p = 0.0029$

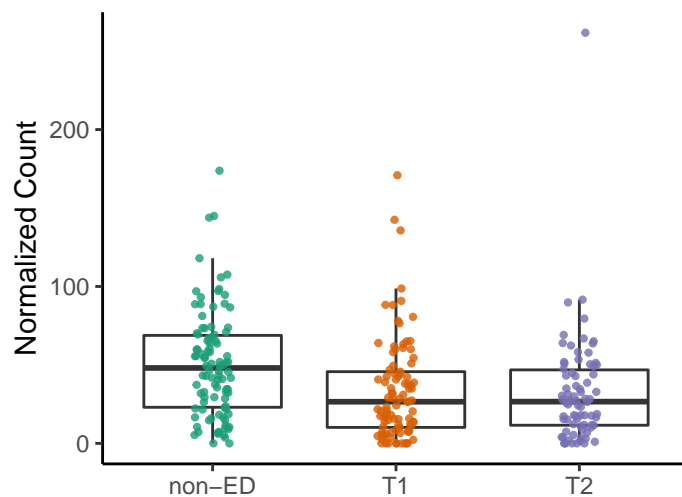
non-ED vs. T2 adjusted $p = 0.012$

T1 vs. T2 adjusted $p = 0.54$



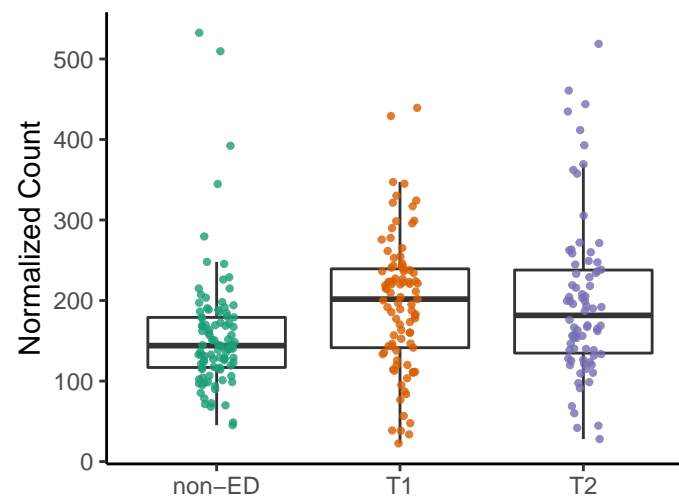
ARG+POLYAMINE-SYN: superpathway of

non-ED vs. T1 adjusted $p = 0.0033$
non-ED vs. T2 adjusted $p = 0.0099$
T1 vs. T2 adjusted $p = 0.81$



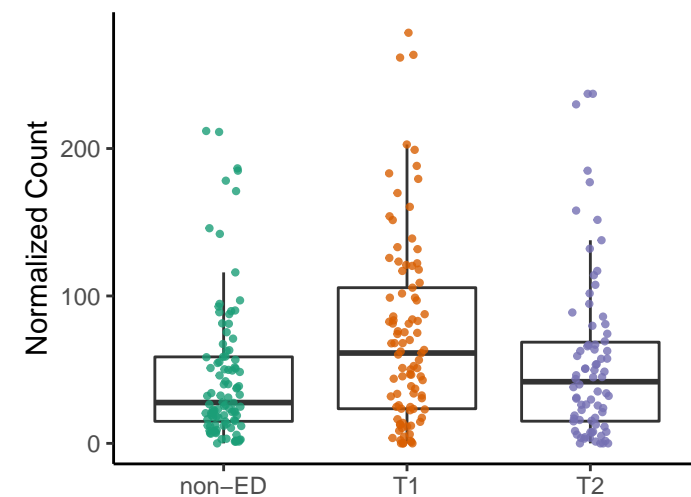
PWY-7208: superpathway of pyrimidin

non-ED vs. T1 adjusted $p = 0.0033$
non-ED vs. T2 adjusted $p = 0.021$
T1 vs. T2 adjusted $p = 0.88$



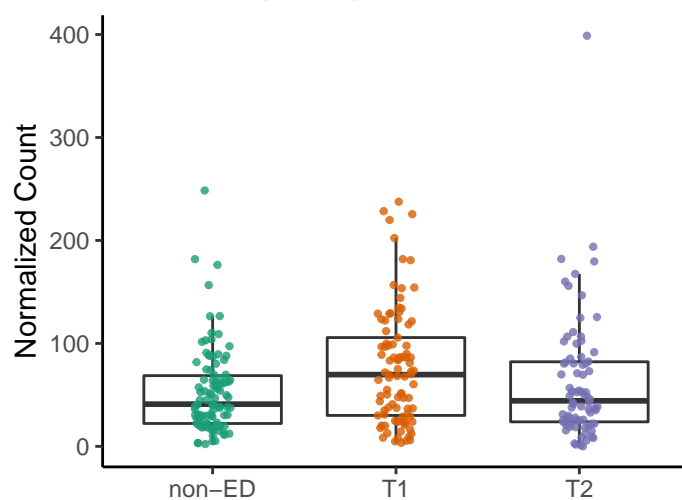
PHOSLIPSYN-PWY: superpathway of

non-ED vs. T1 adjusted $p = 0.0043$
non-ED vs. T2 adjusted $p = 0.39$
T1 vs. T2 adjusted $p = 0.056$



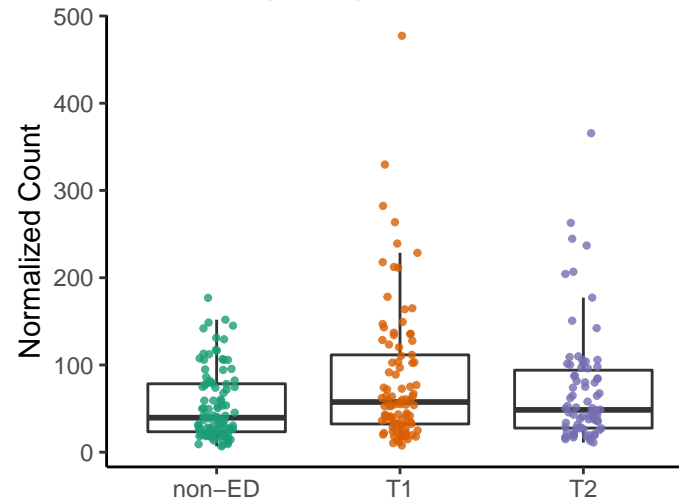
PWY-5154: L-arginine biosynthesis III

non-ED vs. T1 adjusted $p = 0.0046$
non-ED vs. T2 adjusted $p = 0.34$
T1 vs. T2 adjusted $p = 0.15$



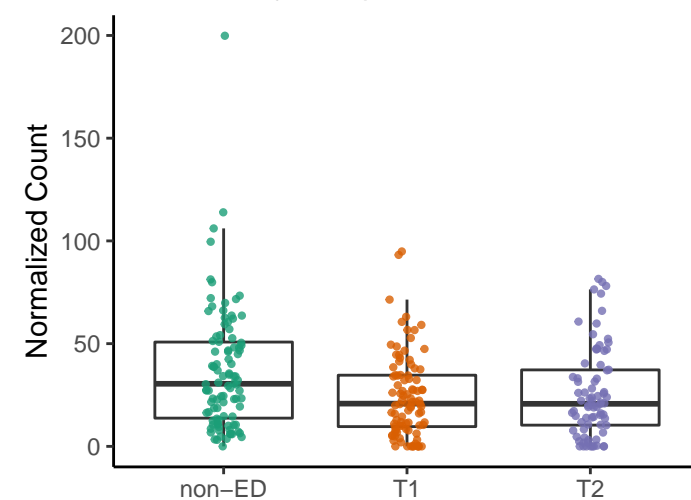
PWY0-1297: superpathway of purine d

non-ED vs. T1 adjusted $p = 0.0047$
non-ED vs. T2 adjusted $p = 0.12$
T1 vs. T2 adjusted $p = 0.19$



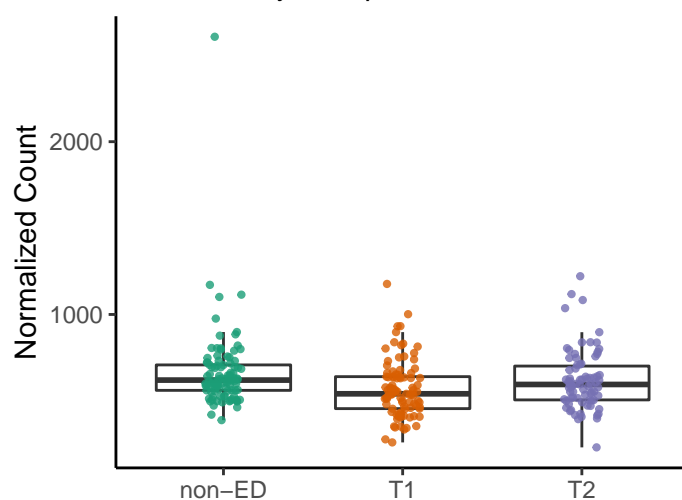
FOLSYN-PWY: superpathway of tetrah

non-ED vs. T1 adjusted $p = 0.0048$
non-ED vs. T2 adjusted $p = 0.041$
T1 vs. T2 adjusted $p = 0.54$



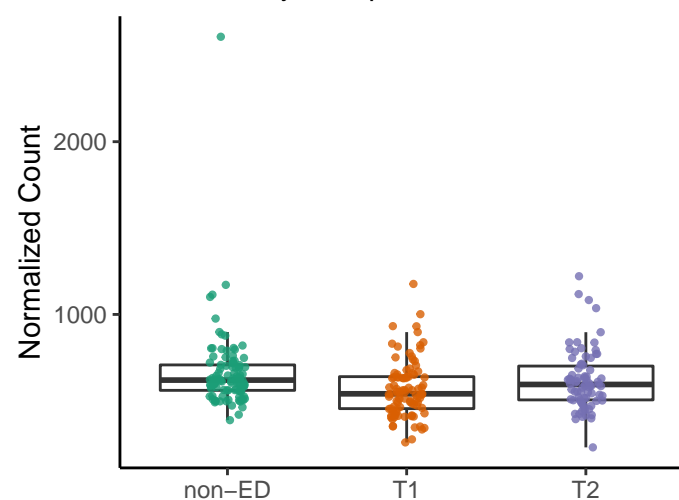
PWY-6122: 5-aminoimidazole ribonuc

non-ED vs. T1 adjusted $p = 0.0055$
non-ED vs. T2 adjusted $p = 0.26$
T1 vs. T2 adjusted $p = 0.021$



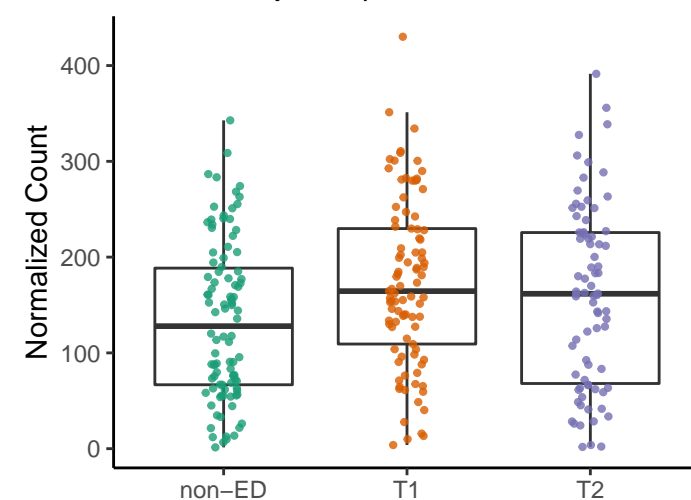
PWY-6277: superpathway of 5-aminc

non-ED vs. T1 adjusted $p = 0.0055$
non-ED vs. T2 adjusted $p = 0.26$
T1 vs. T2 adjusted $p = 0.021$



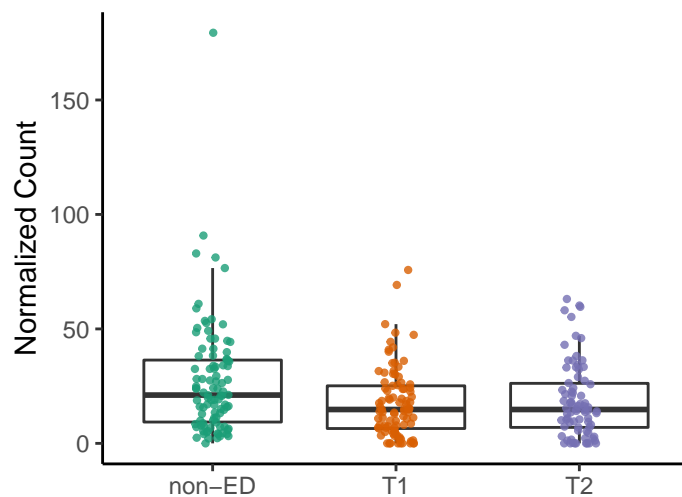
PWY-6897: thiamin salvage II

non-ED vs. T1 adjusted $p = 0.0063$
non-ED vs. T2 adjusted $p = 0.14$
T1 vs. T2 adjusted $p = 0.31$



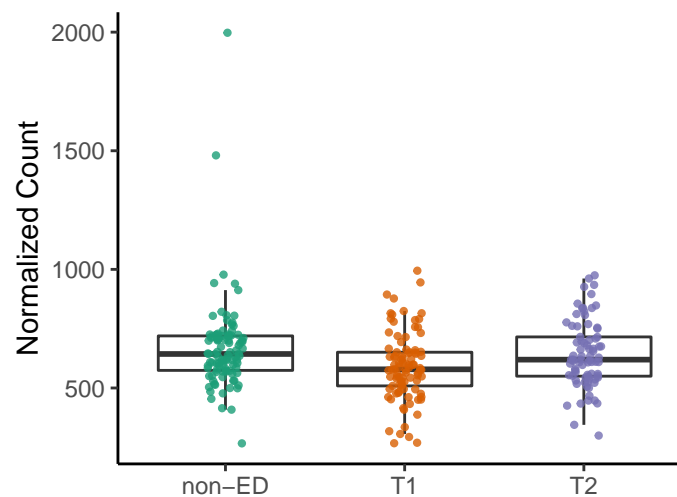
PWY-6612: superpathway of tetrahydr

non-ED vs. T1 adjusted $p = 0.0063$
 non-ED vs. T2 adjusted $p = 0.041$
 T1 vs. T2 adjusted $p = 0.53$



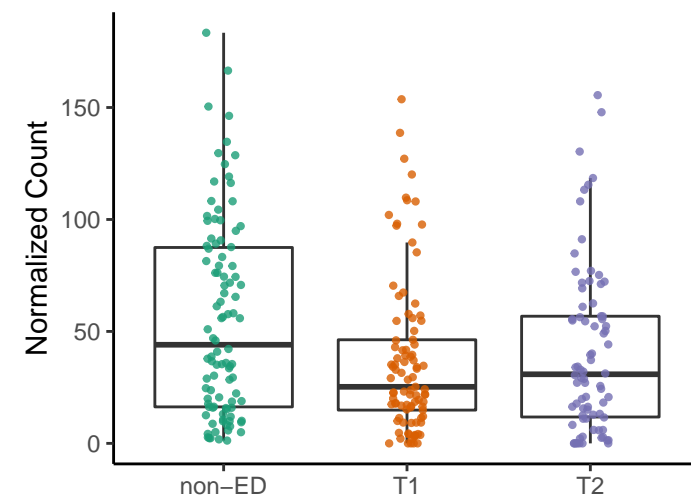
PEPTIDOGLYCANSYN-PWY: peptido

non-ED vs. T1 adjusted $p = 0.0067$
 non-ED vs. T2 adjusted $p = 0.43$
 T1 vs. T2 adjusted $p = 0.029$



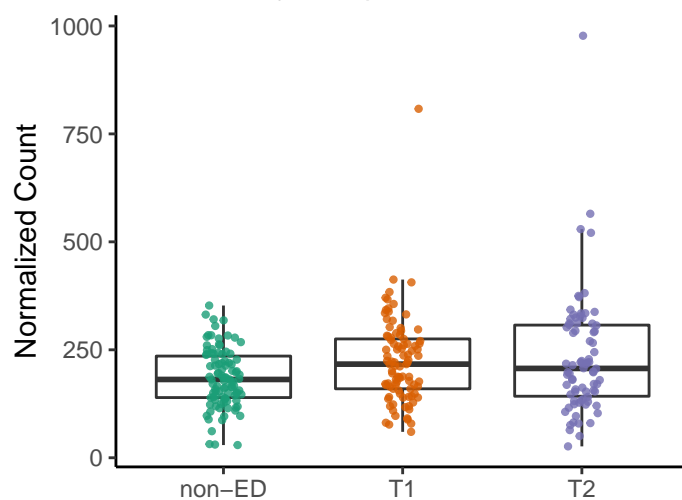
PYRIDNUCSAL-PWY: NAD salvage pa

non-ED vs. T1 adjusted $p = 0.0067$
 non-ED vs. T2 adjusted $p = 0.068$
 T1 vs. T2 adjusted $p = 0.5$



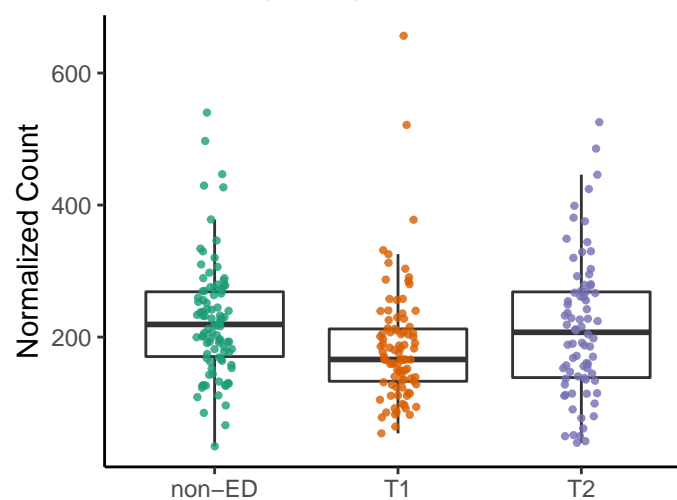
PWY-6703: preQ0 biosynthesis

non-ED vs. T1 adjusted $p = 0.0069$
 non-ED vs. T2 adjusted $p = 0.041$
 T1 vs. T2 adjusted $p = 0.99$



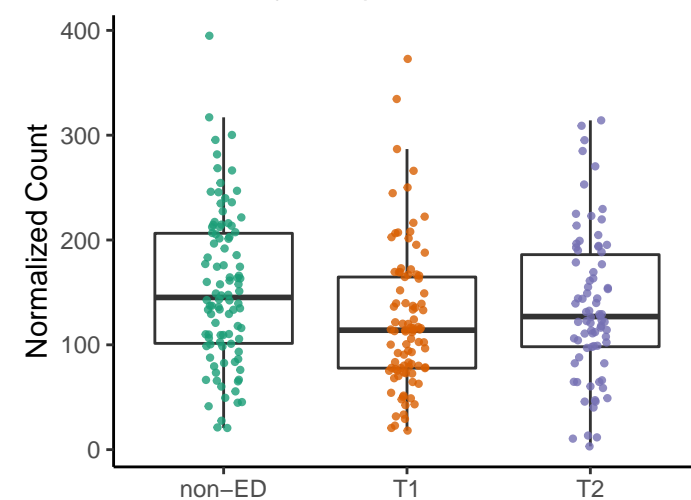
COA-PWY: coenzyme A biosynthesis I

non-ED vs. T1 adjusted $p = 0.0084$
 non-ED vs. T2 adjusted $p = 0.56$
 T1 vs. T2 adjusted $p = 0.033$



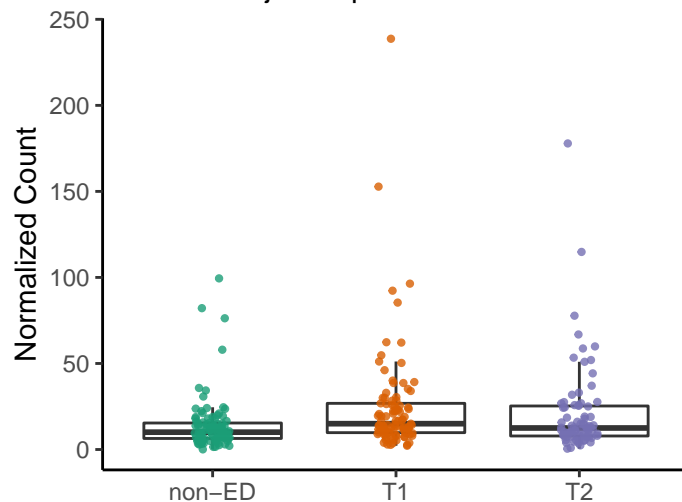
PWY-5659: GDP-mannose biosynthes

non-ED vs. T1 adjusted $p = 0.0094$
 non-ED vs. T2 adjusted $p = 0.23$
 T1 vs. T2 adjusted $p = 0.37$



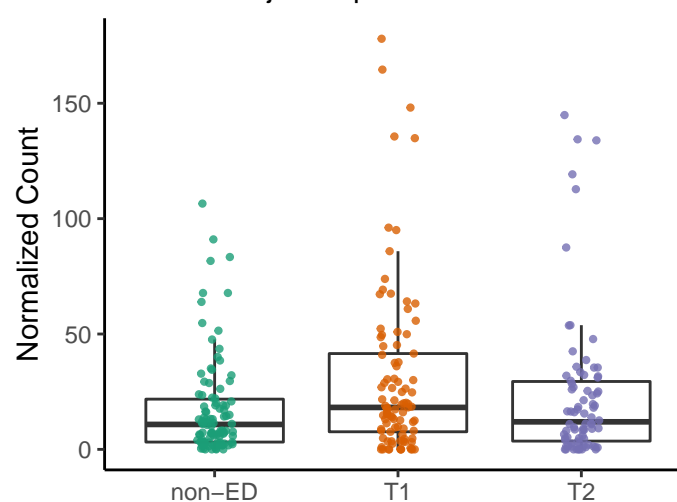
P161-PWY: acetylene degradation

non-ED vs. T1 adjusted $p = 0.0098$
 non-ED vs. T2 adjusted $p = 0.1$
 T1 vs. T2 adjusted $p = 0.45$



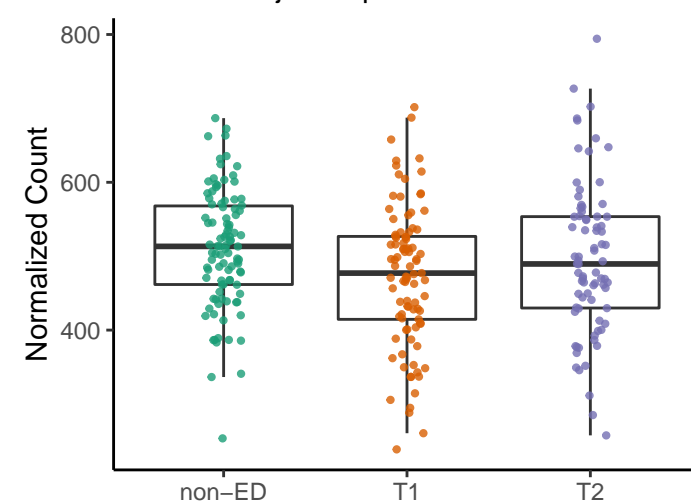
PWY-7323: superpathway of GDP-ma

non-ED vs. T1 adjusted $p = 0.01$
 non-ED vs. T2 adjusted $p = 0.31$
 T1 vs. T2 adjusted $p = 0.15$



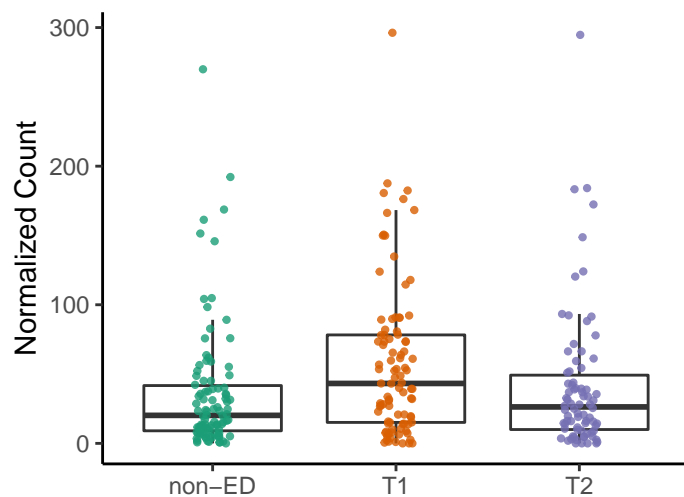
PWY-5097: L-lysine biosynthesis VI

non-ED vs. T1 adjusted $p = 0.012$
 non-ED vs. T2 adjusted $p = 0.43$
 T1 vs. T2 adjusted $p = 0.37$



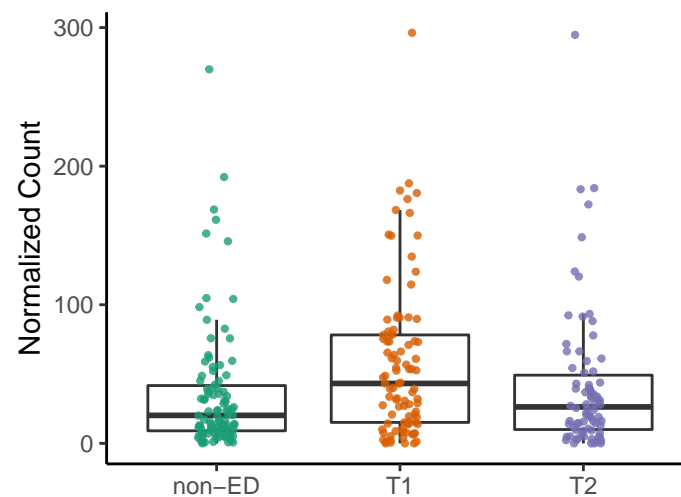
PWY4FS-7: phosphatidylglycerol biosy

non-ED vs. T1 adjusted $p = 0.012$
 non-ED vs. T2 adjusted $p = 0.58$
 T1 vs. T2 adjusted $p = 0.039$



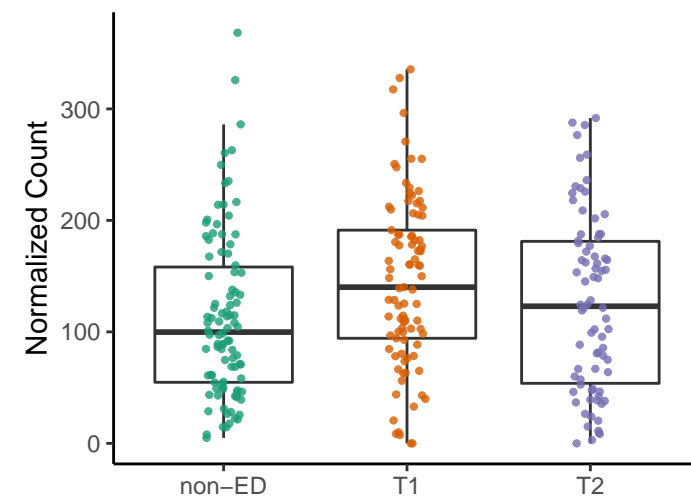
PWY4FS-8: phosphatidylglycerol biosy

non-ED vs. T1 adjusted $p = 0.012$
 non-ED vs. T2 adjusted $p = 0.58$
 T1 vs. T2 adjusted $p = 0.039$



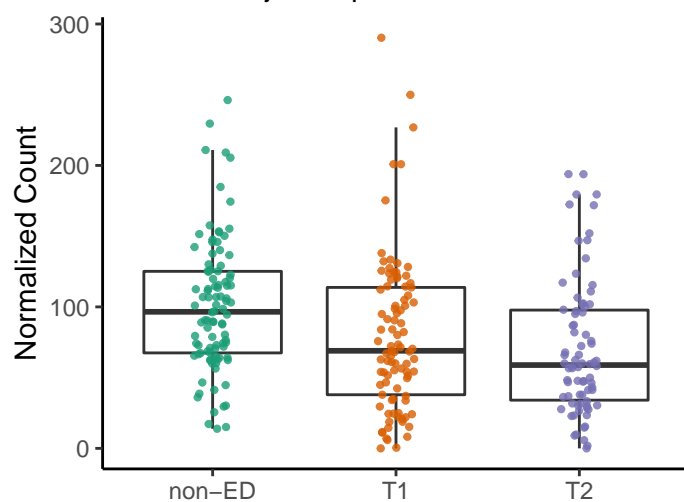
ANAEROFRUCAT-PWY: homolactic fe

non-ED vs. T1 adjusted $p = 0.014$
 non-ED vs. T2 adjusted $p = 0.43$
 T1 vs. T2 adjusted $p = 0.14$



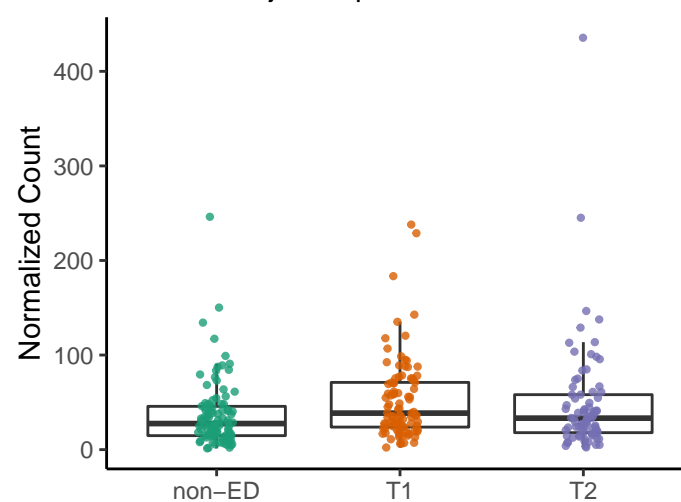
HSERMETANA-PWY: L-methionine bi

non-ED vs. T1 adjusted $p = 0.014$
 non-ED vs. T2 adjusted $p = 0.0013$
 T1 vs. T2 adjusted $p = 0.55$



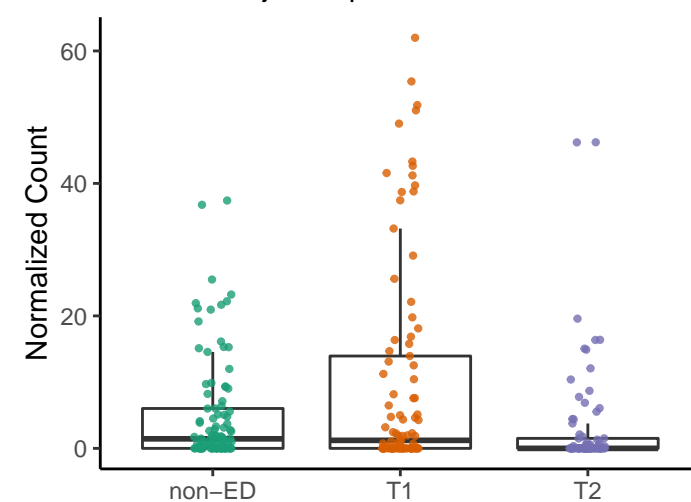
HISDEG-PWY: L-histidine degradati

non-ED vs. T1 adjusted $p = 0.023$
 non-ED vs. T2 adjusted $p = 0.23$
 T1 vs. T2 adjusted $p = 0.7$



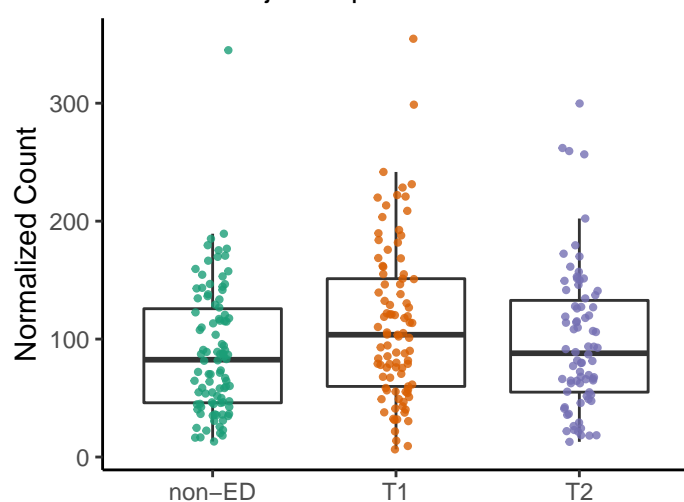
PWY-5505: L-glutamate and L-glutami

non-ED vs. T1 adjusted $p = 0.023$
 non-ED vs. T2 adjusted $p = 0.26$
 T1 vs. T2 adjusted $p = 0.0045$



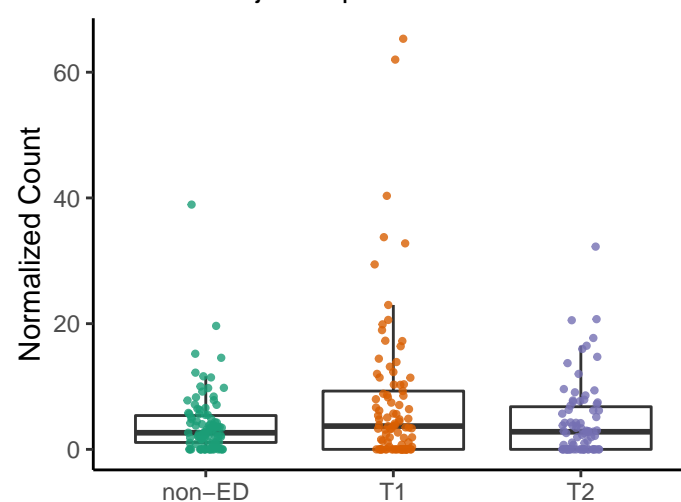
PWY66-409: superpathway of purine n

non-ED vs. T1 adjusted $p = 0.026$
 non-ED vs. T2 adjusted $p = 0.42$
 T1 vs. T2 adjusted $p = 0.074$



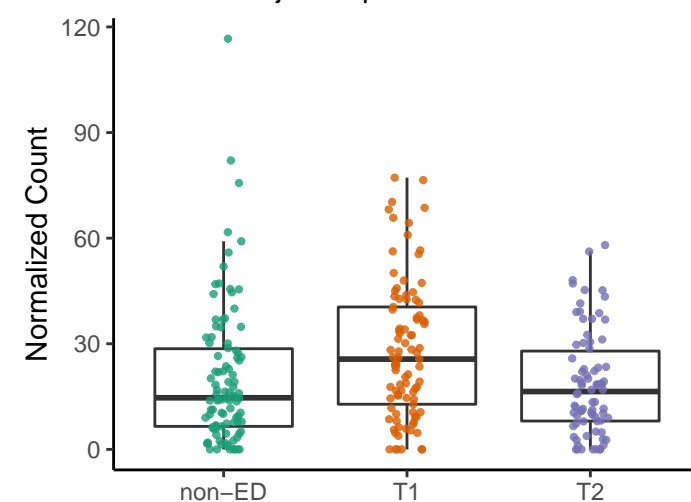
PWY-5464: superpathway of cytosolic c

non-ED vs. T1 adjusted $p = 0.028$
 non-ED vs. T2 adjusted $p = 0.68$
 T1 vs. T2 adjusted $p = 0.14$



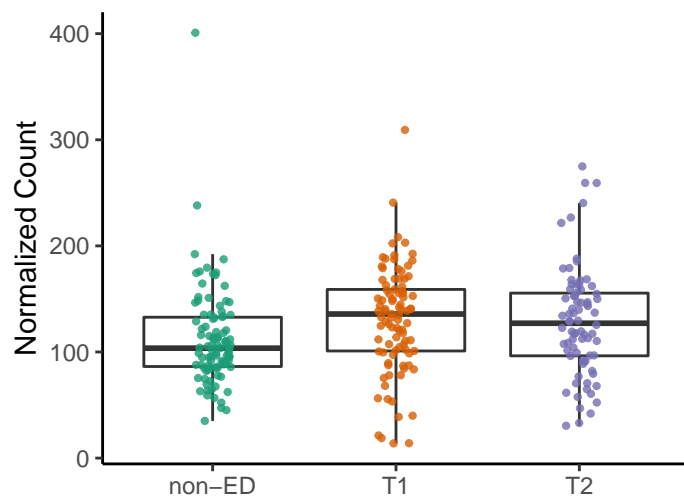
PWY-5676: acetyl-CoA fermentation to

non-ED vs. T1 adjusted $p = 0.028$
 non-ED vs. T2 adjusted $p = 0.61$
 T1 vs. T2 adjusted $p = 0.0045$



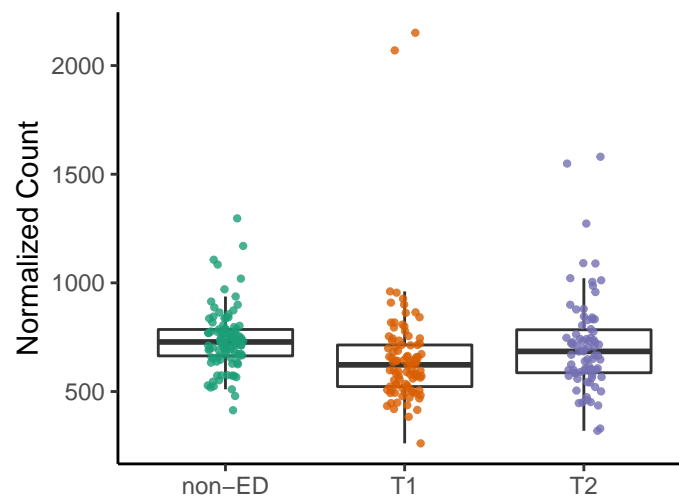
PWY-6545: pyrimidine deoxyribonucle

non-ED vs. T1 adjusted p = 0.028
non-ED vs. T2 adjusted p = 0.096
T1 vs. T2 adjusted p = 0.61



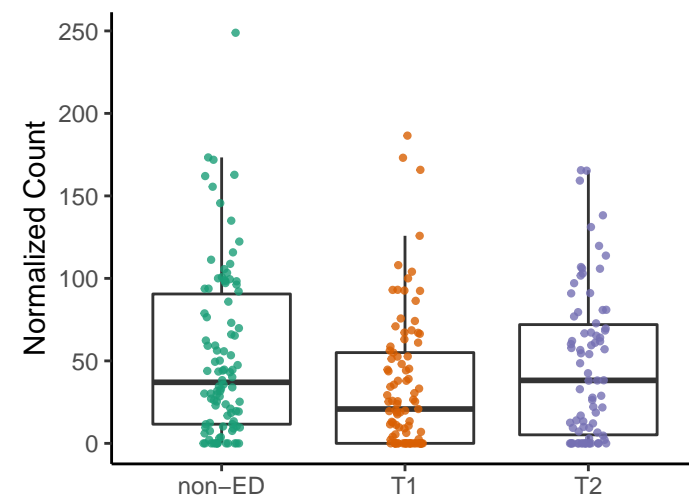
PWY-7111: pyruvate fermentation to i

non-ED vs. T1 adjusted p = 0.028
non-ED vs. T2 adjusted p = 0.58
T1 vs. T2 adjusted p = 0.031



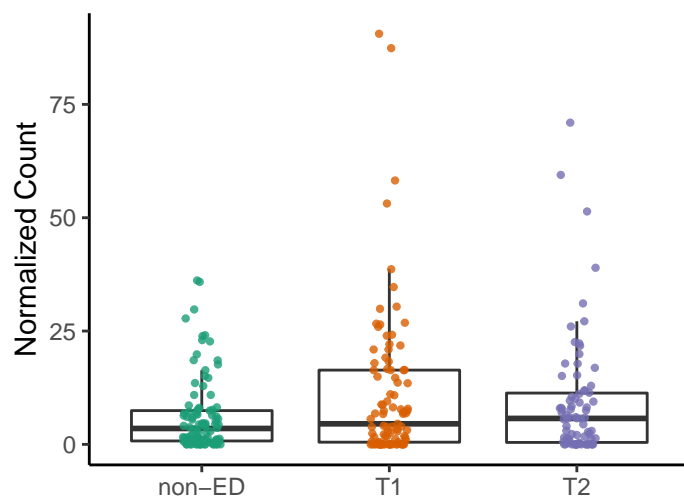
PWY-7456: mannan degradation

non-ED vs. T1 adjusted p = 0.029
non-ED vs. T2 adjusted p = 0.59
T1 vs. T2 adjusted p = 0.078



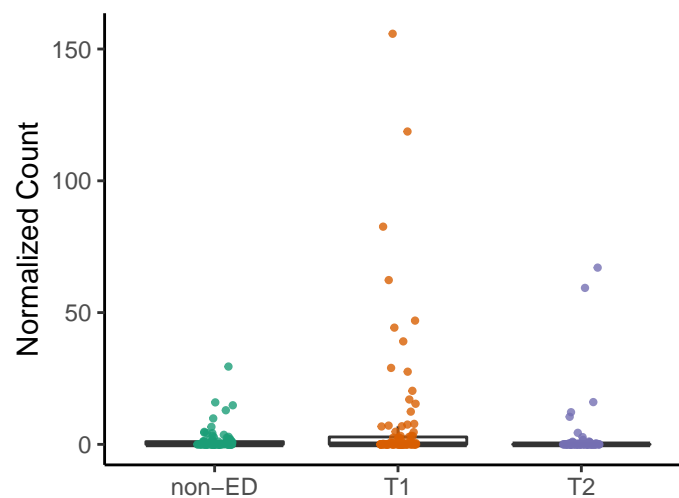
PWY-6531: mannitol cycle

non-ED vs. T1 adjusted p = 0.03
non-ED vs. T2 adjusted p = 0.17
T1 vs. T2 adjusted p = 0.26



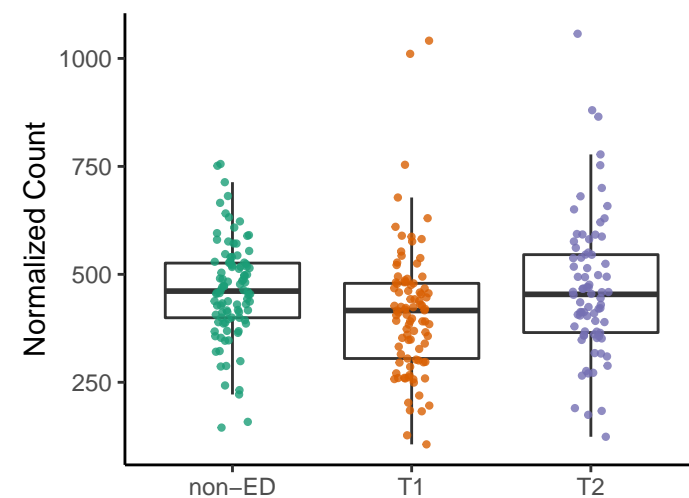
PWY-7013: L-1,2-propanediol degrad

non-ED vs. T1 adjusted p = 0.03
non-ED vs. T2 adjusted p = 0.63
T1 vs. T2 adjusted p = 0.056



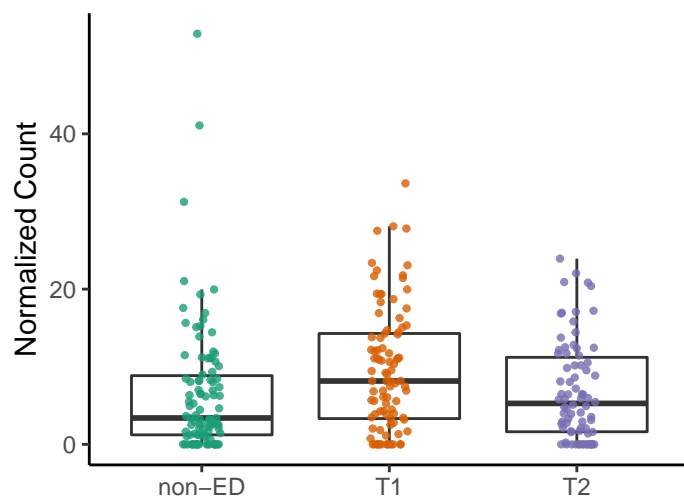
PWY0-1296: purine ribonucleosides d

non-ED vs. T1 adjusted p = 0.032
non-ED vs. T2 adjusted p = 0.91
T1 vs. T2 adjusted p = 0.05



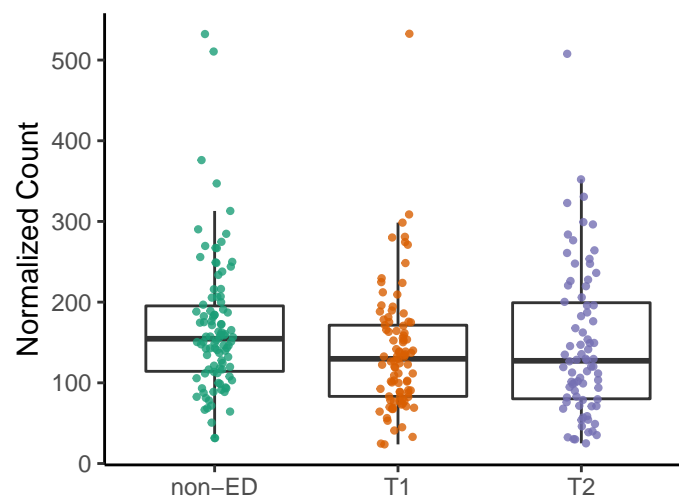
P162-PWY: L-glutamate degradation V

non-ED vs. T1 adjusted p = 0.032
non-ED vs. T2 adjusted p = 0.9
T1 vs. T2 adjusted p = 0.021



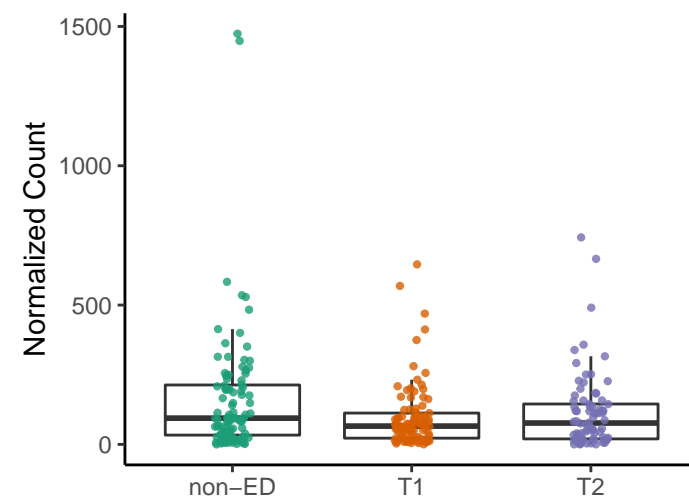
PWY-4242: pantothenate and coenzyn

non-ED vs. T1 adjusted p = 0.033
non-ED vs. T2 adjusted p = 0.23
T1 vs. T2 adjusted p = 0.41



UDPNAGSYN-PWY: UDP-N-acetyl-

non-ED vs. T1 adjusted p = 0.033
non-ED vs. T2 adjusted p = 0.15
T1 vs. T2 adjusted p = 0.26

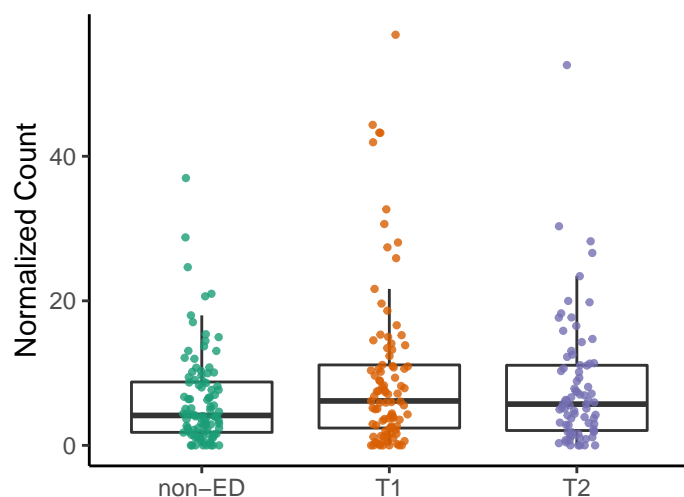


HEME-BIOSYNTHESIS-II: heme biosy

non-ED vs. T1 adjusted $p = 0.037$

non-ED vs. T2 adjusted $p = 0.24$

T1 vs. T2 adjusted $p = 0.22$

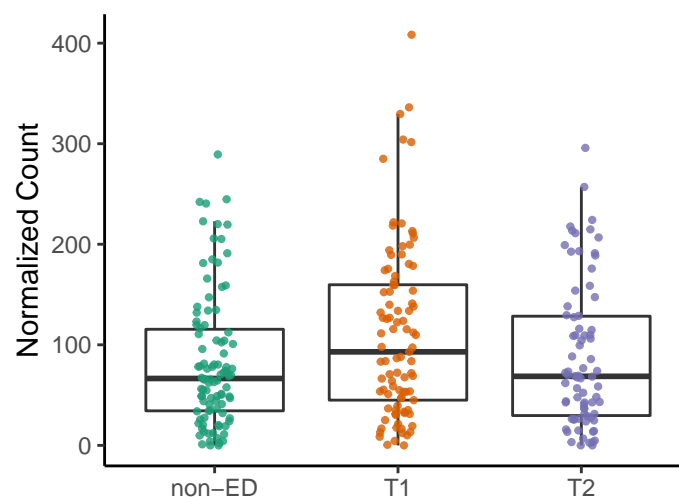


PWY-7560: methylerythritol phosphate

non-ED vs. T1 adjusted $p = 0.038$

non-ED vs. T2 adjusted $p = 0.76$

T1 vs. T2 adjusted $p = 0.096$

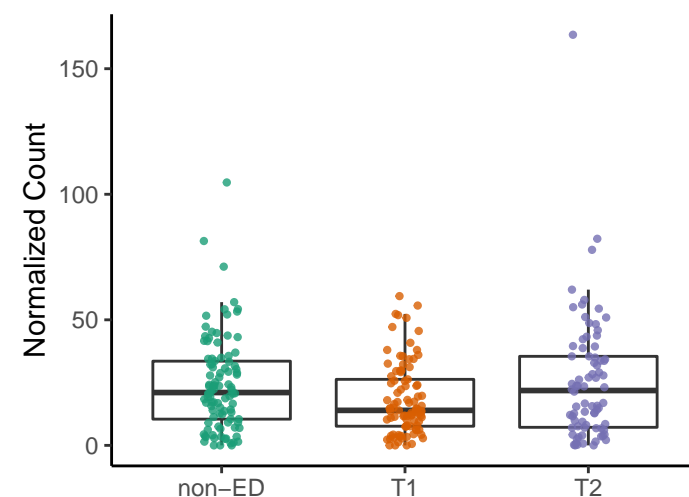


PWY-6595: superpathway of guanosin

non-ED vs. T1 adjusted $p = 0.039$

non-ED vs. T2 adjusted $p = 0.78$

T1 vs. T2 adjusted $p = 0.058$

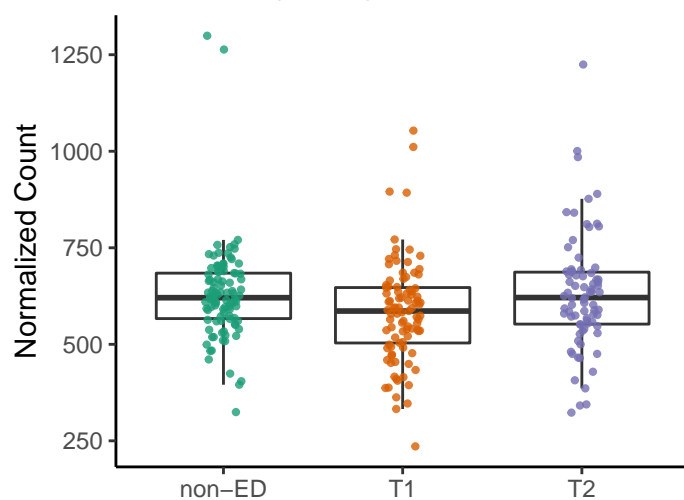


PWY-7221: guanosine ribonucleotide:

non-ED vs. T1 adjusted $p = 0.039$

non-ED vs. T2 adjusted $p = 0.97$

T1 vs. T2 adjusted $p = 0.059$

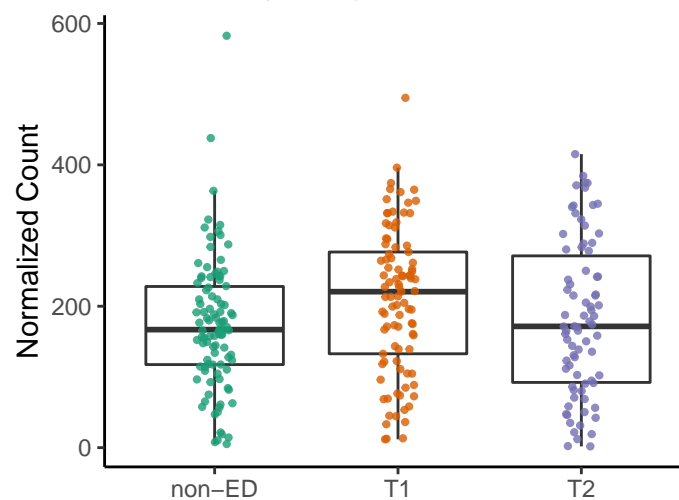


PWY-5973: cis-vaccenate biosynthesi

non-ED vs. T1 adjusted $p = 0.041$

non-ED vs. T2 adjusted $p = 0.71$

T1 vs. T2 adjusted $p = 0.019$

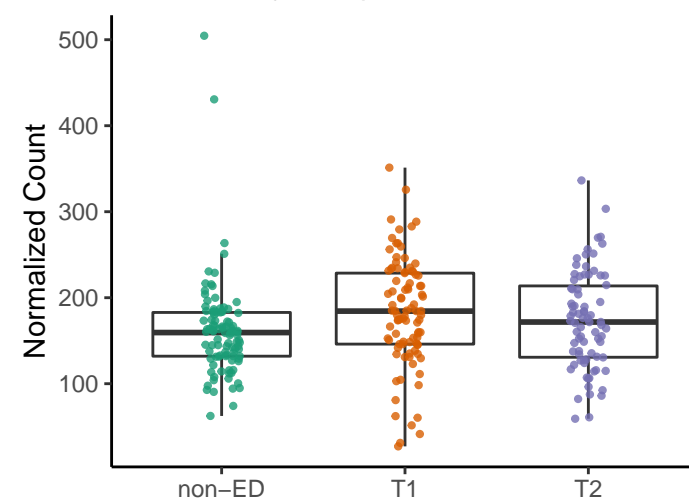


PWY0-166: superpathway of pyrimidin

non-ED vs. T1 adjusted $p = 0.041$

non-ED vs. T2 adjusted $p = 0.29$

T1 vs. T2 adjusted $p = 0.26$

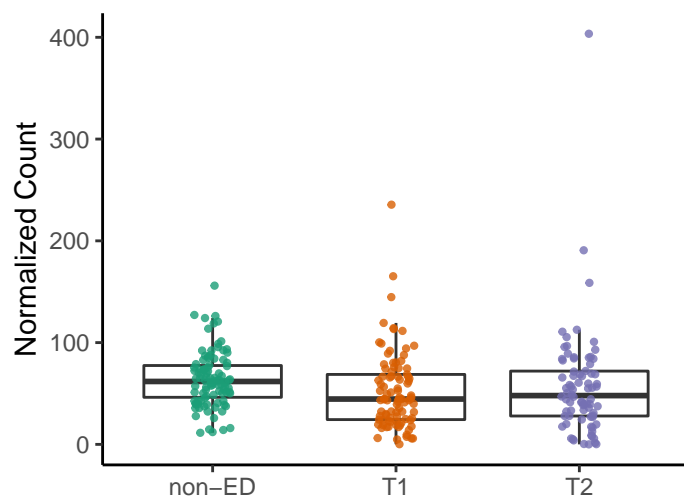


SALVADEHYPOX-PWY: adenosine nu

non-ED vs. T1 adjusted $p = 0.042$

non-ED vs. T2 adjusted $p = 0.41$

T1 vs. T2 adjusted $p = 0.44$

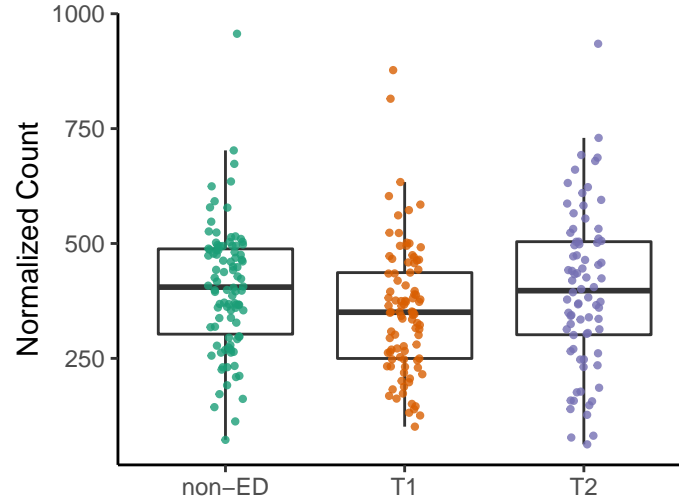


PWY-6385: peptidoglycan biosynthesi

non-ED vs. T1 adjusted $p = 0.042$

non-ED vs. T2 adjusted $p = 0.95$

T1 vs. T2 adjusted $p = 0.045$

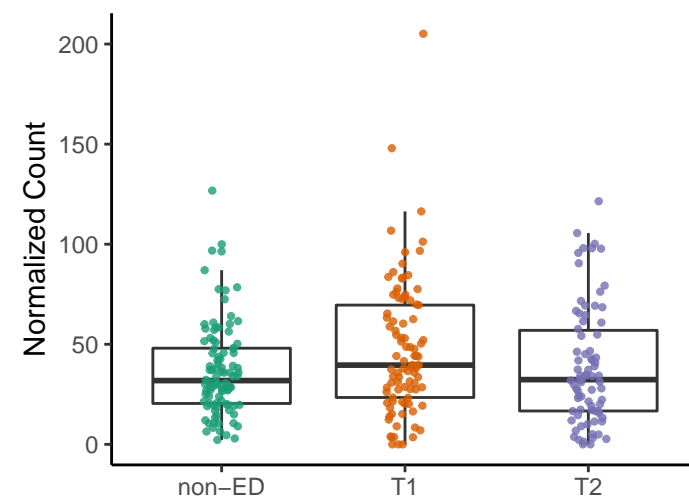


HEXITOLDEGSUPER-PWY: superpath

non-ED vs. T1 adjusted $p = 0.045$

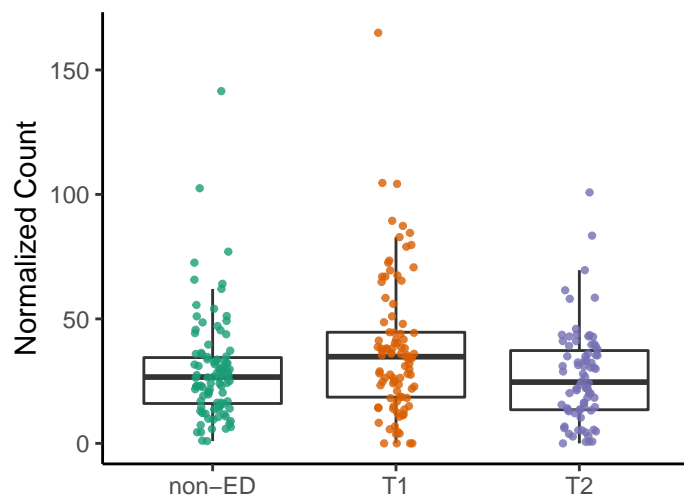
non-ED vs. T2 adjusted $p = 0.77$

T1 vs. T2 adjusted $p = 0.056$



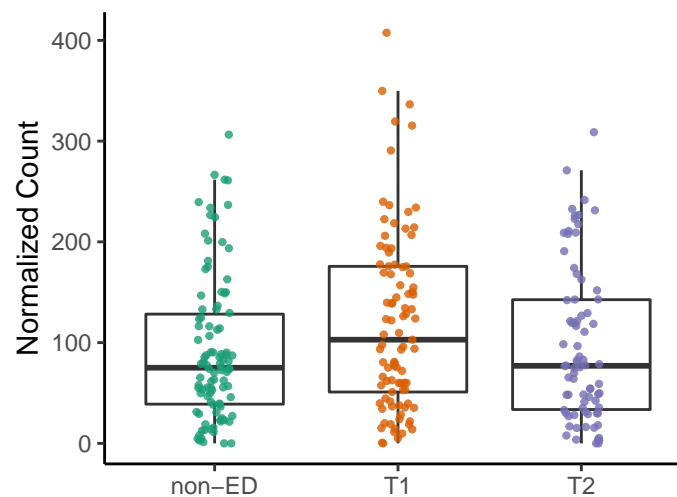
P441-PWY: superpathway of N-acetyl

non-ED vs. T1 adjusted $p = 0.046$
 non-ED vs. T2 adjusted $p = 0.57$
 T1 vs. T2 adjusted $p = 0.011$



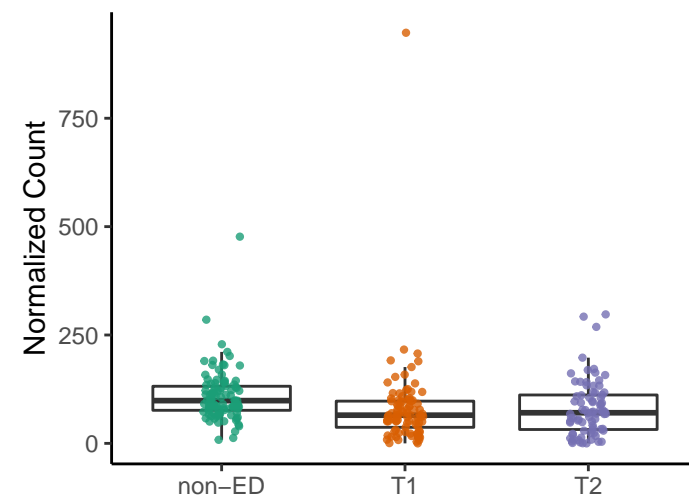
PWY-6270: isoprene biosynthesis I

non-ED vs. T1 adjusted $p = 0.046$
 non-ED vs. T2 adjusted $p = 0.77$
 T1 vs. T2 adjusted $p = 0.1$



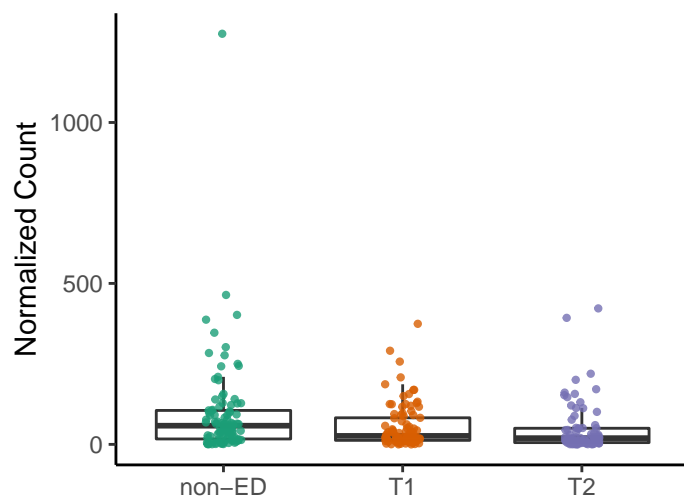
PWY-6305: putrescine biosynthesis IV

non-ED vs. T1 adjusted $p = 0.046$
 non-ED vs. T2 adjusted $p = 0.024$
 T1 vs. T2 adjusted $p = 0.12$



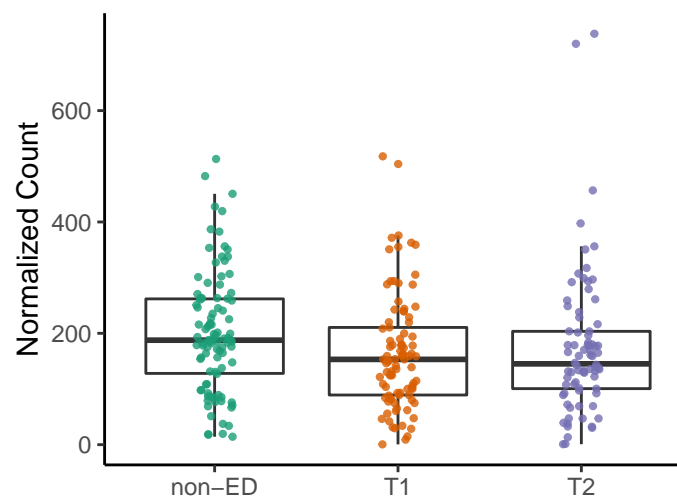
PWY-6147: 6-hydroxymethyl-dihydro

non-ED vs. T1 adjusted $p = 0.048$
 non-ED vs. T2 adjusted $p = 0.047$
 T1 vs. T2 adjusted $p = 0.82$



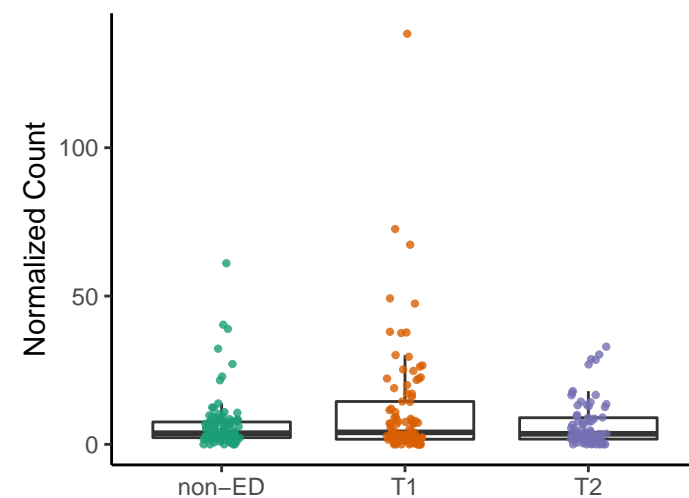
TRPSYN-PWY: L-tryptophan biosynth

non-ED vs. T1 adjusted $p = 0.052$
 non-ED vs. T2 adjusted $p = 0.28$
 T1 vs. T2 adjusted $p = 0.53$



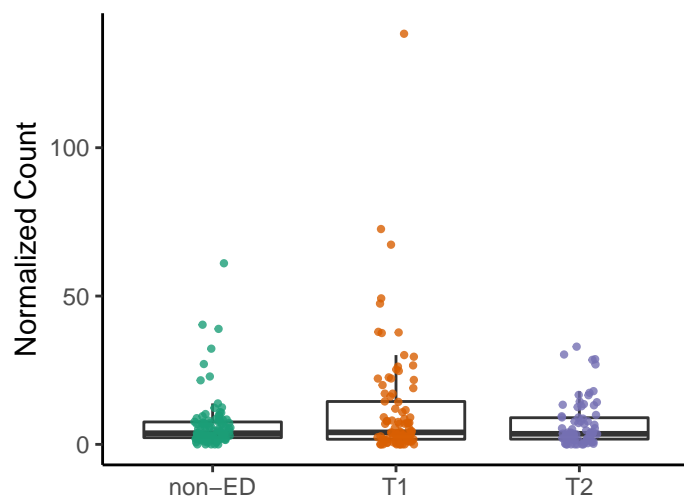
PWY-5791: 1,4-dihydroxy-2-naphtho

non-ED vs. T1 adjusted $p = 0.055$
 non-ED vs. T2 adjusted $p = 0.97$
 T1 vs. T2 adjusted $p = 0.037$



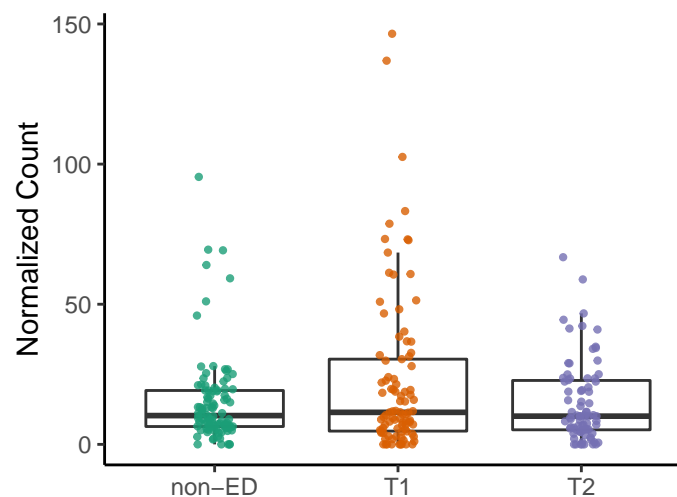
PWY-5837: 1,4-dihydroxy-2-naphtho

non-ED vs. T1 adjusted $p = 0.055$
 non-ED vs. T2 adjusted $p = 0.97$
 T1 vs. T2 adjusted $p = 0.037$



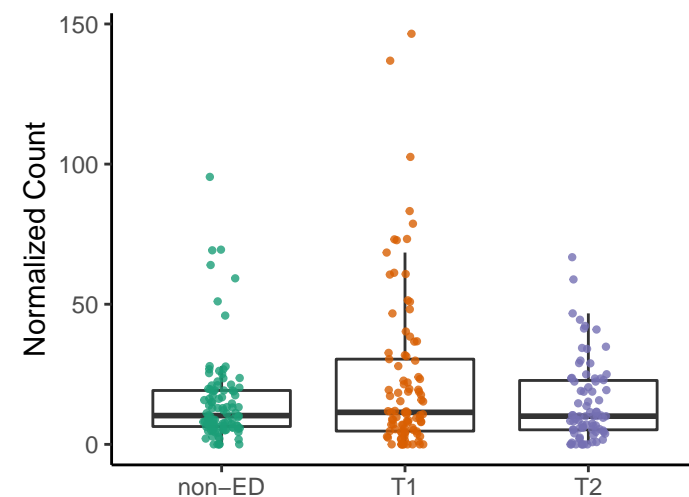
PWY-5897: superpathway of menaquir

non-ED vs. T1 adjusted $p = 0.056$
 non-ED vs. T2 adjusted $p = 0.93$
 T1 vs. T2 adjusted $p = 0.042$



PWY-5898: superpathway of menaquir

non-ED vs. T1 adjusted $p = 0.056$
 non-ED vs. T2 adjusted $p = 0.93$
 T1 vs. T2 adjusted $p = 0.042$

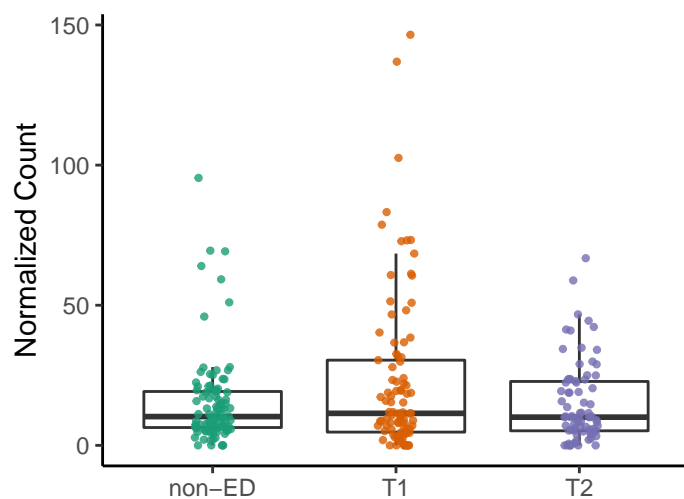


PWY-5899: superpathway of menaquir

non-ED vs. T1 adjusted $p = 0.056$

non-ED vs. T2 adjusted $p = 0.93$

T1 vs. T2 adjusted $p = 0.042$

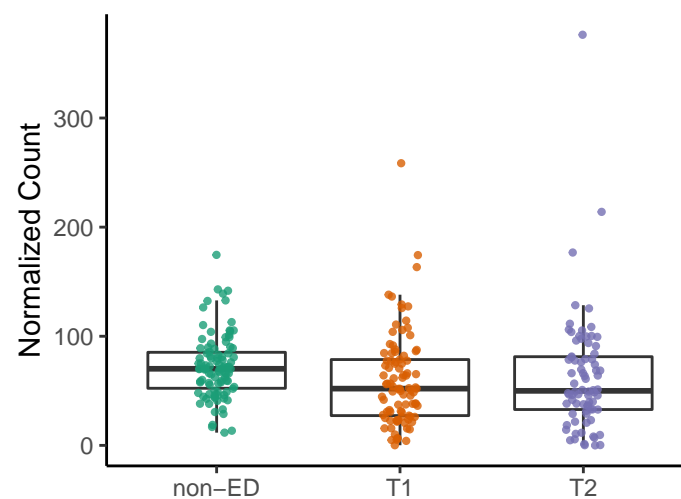


PWY-6608: guanosine nucleotides deg

non-ED vs. T1 adjusted $p = 0.056$

non-ED vs. T2 adjusted $p = 0.28$

T1 vs. T2 adjusted $p = 0.6$

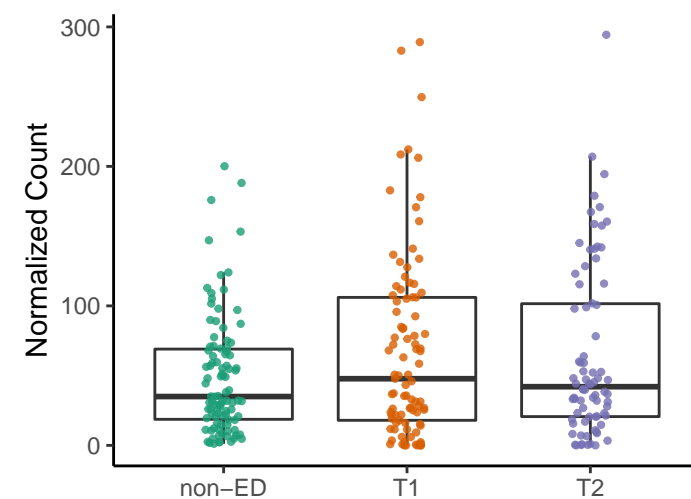


PWY-5101: L-isoleucine biosynthesis

non-ED vs. T1 adjusted $p = 0.057$

non-ED vs. T2 adjusted $p = 0.15$

T1 vs. T2 adjusted $p = 0.7$

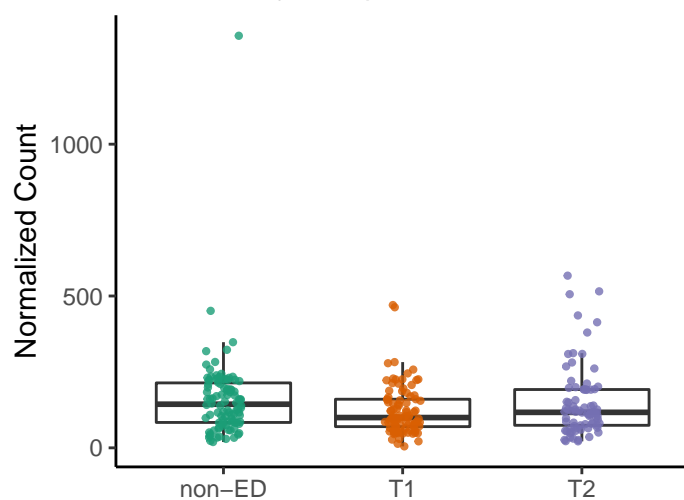


PWY0-1586: peptidoglycan maturati

non-ED vs. T1 adjusted $p = 0.069$

non-ED vs. T2 adjusted $p = 0.7$

T1 vs. T2 adjusted $p = 0.027$

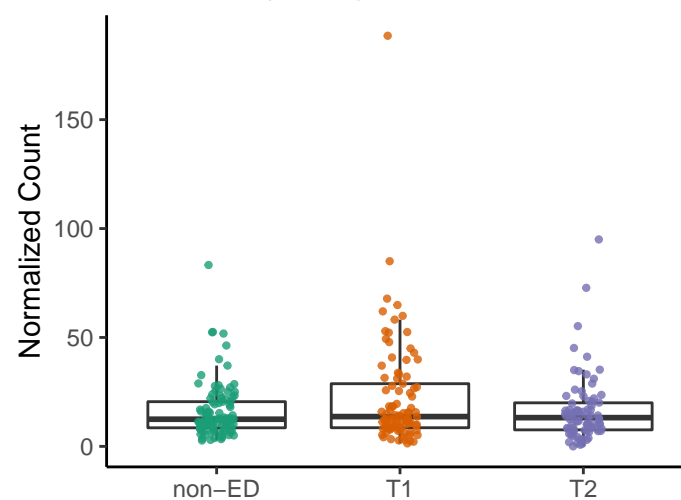


HEMESYN2-PWY: heme biosynthesis

non-ED vs. T1 adjusted $p = 0.07$

non-ED vs. T2 adjusted $p = 0.94$

T1 vs. T2 adjusted $p = 0.2$

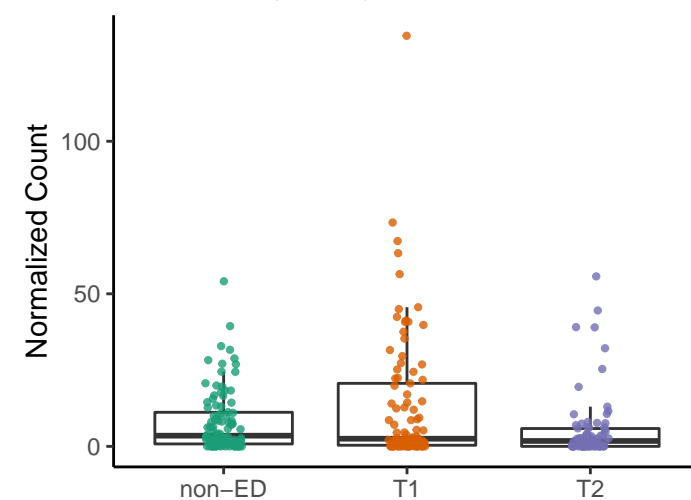


P108-PWY: pyruvate fermentation to p

non-ED vs. T1 adjusted $p = 0.07$

non-ED vs. T2 adjusted $p = 0.24$

T1 vs. T2 adjusted $p = 0.018$

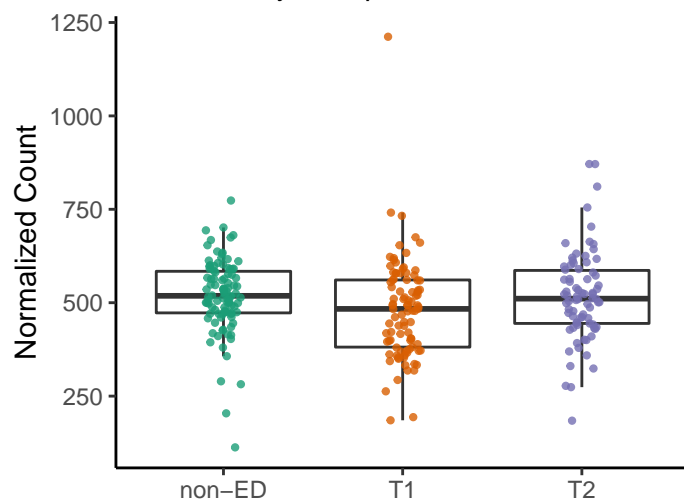


PWY-5667: CDP-diacylglycerol biosy

non-ED vs. T1 adjusted $p = 0.07$

non-ED vs. T2 adjusted $p = 0.95$

T1 vs. T2 adjusted $p = 0.21$

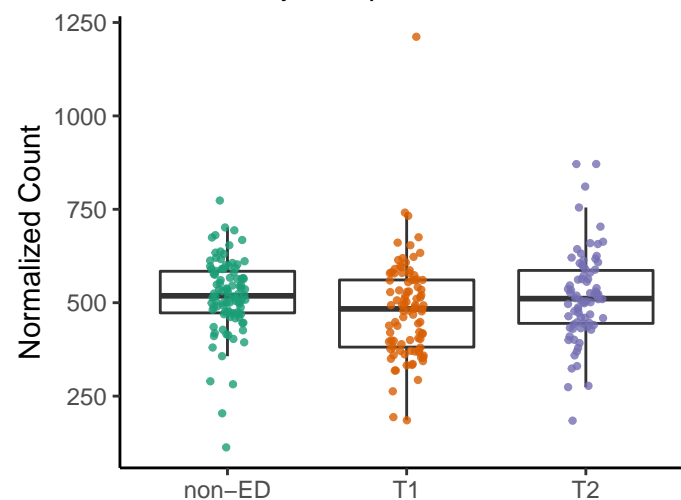


PWY0-1319: CDP-diacylglycerol bios

non-ED vs. T1 adjusted $p = 0.07$

non-ED vs. T2 adjusted $p = 0.95$

T1 vs. T2 adjusted $p = 0.21$

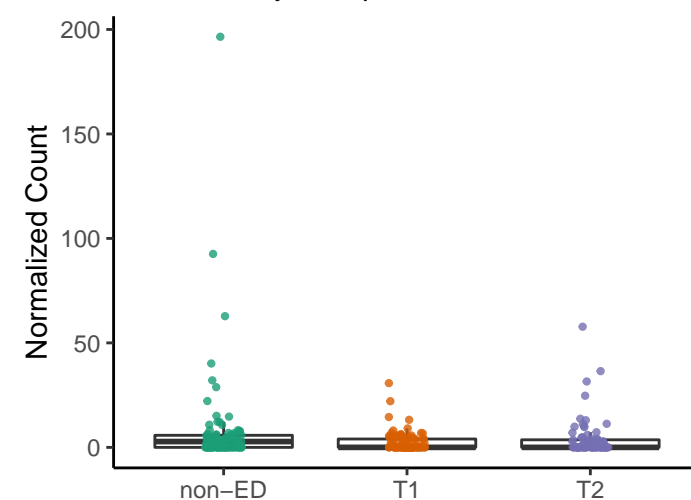


P124-PWY: Bifidobacterium shunt

non-ED vs. T1 adjusted $p = 0.077$

non-ED vs. T2 adjusted $p = 0.28$

T1 vs. T2 adjusted $p = 0.24$



PWY-7187: pyrimidine deoxyribonucleotides de novo biosynthesis II

non-ED vs. T1 adjusted p = 0.081

non-ED vs. T2 adjusted p = 0.18

T1 vs. T2 adjusted p = 0.59

