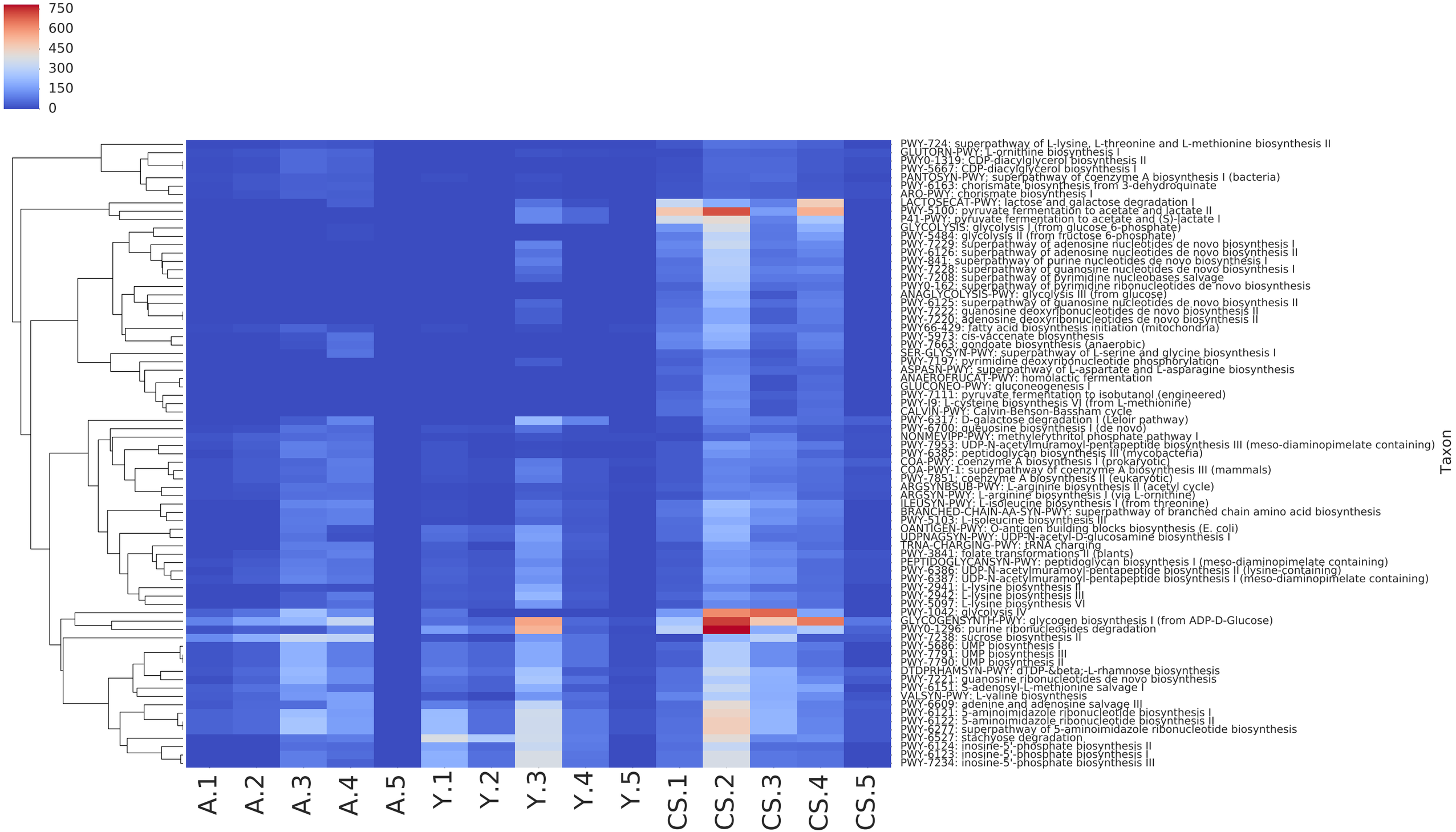
750
600
450
300
150
0
PWY-724: superpathway of L-lysine, L-threonine and L-methionine biosynthesis II
GLUTORN-PWY: L-ornithine biosynthesis I
PWY0-1319: CDP-diacylglycerol biosynthesis II
PWY-5667: CDP-diacylglycerol biosynthesis I
PANTOSYN-PWY: superpathway of coenzyme A biosynthesis I (bacteria)
PWY-6163: chorismate biosynthesis from 3-dehydroquinate
ARO-PWY: chorismate biosynthesis I
LACTOSECAT-PWY: lactose and galactose degradation I
PWY-5100: pyruvate fermentation to acetate and lactate II
P41-PWY: pyruvate fermentation to acetate and (S)-lactate I
GLYCOLYSIS: glycolysis I (from glucose 6-phosphate)
PWY-5484: glycolysis II (from fructose 6-phosphate)
PWY-7229: superpathway of adenosine nucleotides de novo biosynthesis I
PWY-6126: superpathway of adenosine nucleotides de novo biosynthesis II
PWY-841: superpathway of purine nucleotides de novo biosynthesis I
PWY-7228: superpathway of guanosine nucleotides de novo biosynthesis I
PWY-7208: superpathway of pyrimidine nucleobases salvage
PWY0-162: superpathway of pyrimidine ribonucleotides de novo biosynthesis
ANAGLYCOLYSIS-PWY: glycolysis III (from glucose)
PWY-6125: superpathway of guanosine nucleotides de novo biosynthesis II
PWY-7222: guanosine deoxyribonucleotides de novo biosynthesis II
PWY-7220: adenosine deoxyribonucleotides de novo biosynthesis II
PWY66-429: fatty acid biosynthesis initiation (mitochondria)
PWY-5973: cis-vaccenate biosynthesis
PWY-7663: gondoate biosynthesis (anaerobic)
SER-GLYSYN-PWY: superpathway of L-serine and glycine biosynthesis I
PWY-7197: pyrimidine deoxyribonucleotide phosphorylation
ASPASN-PWY: superpathway of L-aspartate and L-asparagine biosynthesis
ANAEROFRUCAT-PWY: homolactic fermentation
GLUCONEO-PWY: gluconeogenesis I
PWY-7111: pyruvate fermentation to isobutanol (engineered)
PWY-I9: L-cysteine biosynthesis VI (from L-methionine)
CALVIN-PWY: Calvin-Benson-Bassham cycle
PWY-6317: D-galactose degradation I (Leloir pathway)
PWY-6700: queuosine biosynthesis I (de novo)
NONMEVIPP-PWY: methylerythritol phosphate pathway I
PWY-7953: UDP-N-acetylmuramoyl-pentapeptide biosynthesis III (meso-diaminopimelate containing)
PWY-6385: peptidoglycan biosynthesis III (mycobacteria)
COA-PWY: coenzyme A biosynthesis I (prokaryotic)
COA-PWY-1: superpathway of coenzyme A biosynthesis III (mammals)
PWY-7851: coenzyme A biosynthesis II (eukaryotic)
ARGSYNBSUB-PWY: L-arginine biosynthesis II (acetyl cycle)
ARGSYN-PWY: L-arginine biosynthesis I (via L-ornithine)
ILEUSYN-PWY: L-isoleucine biosynthesis I (from threonine)
BRANCHED-CHAIN-AA-SYN-PWY: superpathway of branched chain amino acid biosynthesis
PWY-5103: L-isoleucine biosynthesis III
OANTIGEN-PWY: O-antigen building blocks biosynthesis (E. coli)
UDPNAGSYN-PWY: UDP-N-acetyl-D-glucosamine biosynthesis I
TRNA-CHARGING-PWY: tRNA charging
PWY-3841: folate transformations II (plants)
PEPTIDOGLYCANSYN-PWY: peptidoglycan biosynthesis I (meso-diaminopimelate containing)
PWY-6386: UDP-N-acetylmuramoyl-pentapeptide biosynthesis II (lysine-containing)
PWY-6387: UDP-N-acetylmuramoyl-pentapeptide biosynthesis I (meso-diaminopimelate containing)
PWY-2941: L-lysine biosynthesis II
PWY-2942: L-lysine biosynthesis III
PWY-5097: L-lysine biosynthesis VI
PWY-1042: glycolysis IV
GLYCOGENSYNTH-PWY: glycogen biosynthesis I (from ADP-D-Glucose)
PWY0-1296: purine ribonucleosides degradation
PWY-7238: sucrose biosynthesis II
PWY-5686: UMP biosynthesis I
PWY-7791: UMP biosynthesis III
PWY-7790: UMP biosynthesis II
DTDPRHAMSYN-PWY: dTDP-β-L-rhamnose biosynthesis
PWY-7221: guanosine ribonucleotides de novo biosynthesis
PWY-6151: S-adenosyl-L-methionine salvage I
VALSYN-PWY: L-valine biosynthesis
PWY-6609: adenine and adenosine salvage III
PWY-6121: 5-aminoimidazole ribonucleotide biosynthesis I
PWY-6122: 5-aminoimidazole ribonucleotide biosynthesis II
PWY-6277: superpathway of 5-aminoimidazole ribonucleotide biosynthesis
PWY-6527: stachyose degradation
PWY-6124: inosine-5'-phosphate biosynthesis II
PWY-6123: inosine-5'-phosphate biosynthesis I
PWY-7234: inosine-5'-phosphate biosynthesis III
A.1
A.2
A.3
A.4
A.5
Y.1
Y.2
Y.3
Y.4
Y.5
CS.1
CS.2
CS.3
CS.4
CS.5
Taxon