_{0.6} Group Group PWY-6317: galactose degradation I (Leloir pathway) PWY-6385: peptidoglycan biosynthesis III (mycobacteria) PWY-7357: thiamin formation from pyrithiamine and oxythiamine (yeast) PWY66–422: D–galactose degradation V (Leloir pathway) 0.3 HISDEG-PWY: L-histidine degradation I 0.2 NONMEVIPP-PWY: methylerythritol phosphate pathway I PWY-6897: thiamin salvage II 0.1 P163-PWY: L-lysine fermentation to acetate and butanoate PWY-7013: L-1,2-propanediol degradation UDPNAGSYN-PWY: UDP-N-acetyl-D-glucosamine biosynthesis I GLYCOGENSYNTH-PWY: glycogen biosynthesis I (from ADP-D-Glucose) PWY-5659: GDP-mannose biosynthesis TRNA-CHARGING-PWY: tRNA charging DTDPRHAMSYN-PWY: dTDP-L-rhamnose biosynthesis I OANTIGEN-PWY: O-antigen building blocks biosynthesis (E. coli) **UNMAPPED** PWY0-1586: peptidoglycan maturation (meso-diaminopimelate containing) P108–PWY: pyruvate fermentation to propanoate I POLYAMSYN-PWY: superpathway of polyamine biosynthesis I GLUCONEO-PWY: gluconeogenesis I P42–PWY: incomplete reductive TCA cycle PWY-6471: peptidoglycan biosynthesis IV (Enterococcus faecium) PWY-6901: superpathway of glucose and xylose degradation PWY0-1298: superpathway of pyrimidine deoxyribonucleosides degradation PWY-7456: mannan degradation PWY-5861: superpathway of demethylmenaquinol-8 biosynthesis PWY-5838: superpathway of menaquinol-8 biosynthesis I PWY-4041: γ-glutamyl cycle GOLPDLCAT-PWY: superpathway of glycerol degradation to 1,3-propanediol POLYISOPRENSYN-PWY: polyisoprenoid biosynthesis (E. coli) PPGPPMET-PWY: ppGpp biosynthesis PWY-5005: biotin biosynthesis II COA-PWY: coenzyme A biosynthesis I PWY-4242: pantothenate and coenzyme A biosynthesis III P185–PWY: formaldehyde assimilation III (dihydroxyacetone cycle) PWY-5173: superpathway of acetyl-CoA biosynthesis BIOTIN-BIOSYNTHESIS-PWY: biotin biosynthesis I PWY-6519: 8-amino-7-oxononanoate biosynthesis I NAGLIPASYN-PWY: lipid IVA biosynthesis PWY0-862: (5Z)-dodec-5-enoate biosynthesis PWY-7664: oleate biosynthesis IV (anaerobic) FASYN-ELONG-PWY: fatty acid elongation -- saturated PWY-6282: palmitoleate biosynthesis I (from (5Z)-dodec-5-enoate) PWY-6147: 6-hydroxymethyl-dihydropterin diphosphate biosynthesis I THISYNARA–PWY: superpathway of thiamin diphosphate biosynthesis III (eukaryotes) CALVIN-PWY: Calvin-Benson-Bassham cycle NONOXIPENT-PWY: pentose phosphate pathway (non-oxidative branch) PWY-5973: cis-vaccenate biosynthesis PWY-7663: gondoate biosynthesis (anaerobic) PWY-6270: isoprene biosynthesis I PWY-7560: methylerythritol phosphate pathway II PWY-5840: superpathway of menaquinol-7 biosynthesis RIBOSYN2-PWY: flavin biosynthesis I (bacteria and plants) PWY-5791: 1,4-dihydroxy-2-naphthoate biosynthesis II (plants) PWY-5837: 1,4-dihydroxy-2-naphthoate biosynthesis I PWY-5899: superpathway of menaquinol-13 biosynthesis PWY-5897: superpathway of menaguinol-11 biosynthesis PWY-5898: superpathway of menaguinol-12 biosynthesis PANTOSYN-PWY: pantothenate and coenzyme A biosynthesis I PWY-5989: stearate biosynthesis II (bacteria and plants) PWY–6700: queuosine biosynthesis PWY-6703: preQ0 biosynthesis ASPASN–PWY: superpathway of L–aspartate and L–asparagine biosynthesis PWY-2942: L-lysine biosynthesis III PWY-5030: L-histidine degradation III PWY-1042: glycolysis IV (plant cytosol) PYRIDNUCSYN-PWY: NAD biosynthesis I (from aspartate) PWY-6151: S-adenosyl-L-methionine cycle I PWY-6163: chorismate biosynthesis from 3-dehydroquinate PWY-7219: adenosine ribonucleotides de novo biosynthesis 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-5100: pyruvate fermentation to acetate and lactate II PWY-6123: inosine-5'-phosphate biosynthesis I PWY-6124: inosine-5'-phosphate biosynthesis II PWY-5686: UMP biosynthesis PWY-6121: 5-aminoimidazole ribonucleotide biosynthesis I PWY-6122: 5-aminoimidazole ribonucleotide biosynthesis II PWY-6277: superpathway of 5-aminoimidazole ribonucleotide biosynthesis PWY-6545: pyrimidine deoxyribonucleotides de novo biosynthesis III PWY-7198: pyrimidine deoxyribonucleotides de novo biosynthesis IV PWY-7210: pyrimidine deoxyribonucleotides biosynthesis from CTP PWY0–1297: superpathway of purine deoxyribonucleosides degradation HEXITOLDEGSUPER-PWY: superpathway of hexitol degradation (bacteria) PWY-5384: sucrose degradation IV (sucrose phosphorylase) PWY66–409: superpathway of purine nucleotide salvage PWY-6608: guanosine nucleotides degradation III PWY-4981: L-proline biosynthesis II (from arginine) PWY-6595: superpathway of quanosine nucleotides degradation (plants) PWY-6606: guanosine nucleotides degradation II SALVADEHYPOX-PWY: adenosine nucleotides degradation II PWY-6353: purine nucleotides degradation II (aerobic) PWY-5367: petroselinate biosynthesis PWY-6284: superpathway of unsaturated fatty acids biosynthesis (E. coli) PWY-5971: palmitate biosynthesis II (bacteria and plants) PWY–7211: superpathway of pyrimidine deoxyribonucleotides de novo biosynthesis PWY-7237: myo-, chiro- and scillo-inositol degradation SULFATE-CYS-PWY: superpathway of sulfate assimilation and cysteine biosynthesis TCA: TCA cycle I (prokaryotic) P441–PWY: superpathway of N–acetylneuraminate degradation PWY-6527: stachyose degradation PWY66-399: gluconeogenesis III PWY-7282: 4-amino-2-methyl-5-phosphomethylpyrimidine biosynthesis (yeast) PWY–7383: anaerobic energy metabolism (invertebrates, cytosol) COA-PWY-1: coenzyme A biosynthesis II (mammalian) HISTSYN-PWY: L-histidine biosynthesis MET-SAM-PWY: superpathway of S-adenosyl-L-methionine biosynthesis HOMOSER-METSYN-PWY: L-methionine biosynthesis I METSYN-PWY: L-homoserine and L-methionine biosynthesis LACTOSECAT-PWY: lactose and galactose degradation I PWY0-1296: purine ribonucleosides degradation PWY-6609: adenine and adenosine salvage III 1CMET2-PWY: N10-formyl-tetrahydrofolate biosynthesis PWY-3841: folate transformations II PWY-5920: superpathway of heme biosynthesis from glycine PWY-5154: L-arginine biosynthesis III (via N-acetyl-L-citrulline) PWY0-1415: superpathway of heme biosynthesis from uroporphyrinogen-III PWY–5345: superpathway of L–methionine biosynthesis (by sulfhydrylation) PWY-6803: phosphatidylcholine acyl editing PWY–7111: pyruvate fermentation to isobutanol (engineered) PWY0-845: superpathway of pyridoxal 5'-phosphate biosynthesis and salvage GLYCOLYSIS-E-D: superpathway of glycolysis and Entner-Doudoroff PYRIDOXSYN-PWY: pyridoxal 5'-phosphate biosynthesis I PWY–3781: aerobic respiration I (cytochrome c) PWY-7115: C4 photosynthetic carbon assimilation cycle, NAD-ME type PWY0–781: aspartate superpathway NAD-BIOSYNTHESIS-II: NAD salvage pathway II PWY–621: sucrose degradation III (sucrose invertase) FUCCAT-PWY: fucose degradation PWY-922: mevalonate pathway I GLUTORN-PWY: L-ornithine biosynthesis ARGSYN-PWY: L-arginine biosynthesis I (via L-ornithine) PWY-7400: L-arginine biosynthesis IV (archaebacteria) ARGSYNBSUB-PWY: L-arginine biosynthesis II (acetyl cycle) PWY–7279: aerobic respiration II (cytochrome c) (yeast) P164–PWY: purine nucleobases degradation I (anaerobic) SO4ASSIM-PWY: sulfate reduction I (assimilatory) SER-GLYSYN-PWY: superpathway of L-serine and glycine biosynthesis I METHGLYUT-PWY: superpathway of methylglyoxal degradation PWY-1269: CMP-3-deoxy-D-manno-octulosonate biosynthesis I PWY-7199: pyrimidine deoxyribonucleosides salvage PWY-241: C4 photosynthetic carbon assimilation cycle, NADP-ME type PWY-5083: NAD/NADH phosphorylation and dephosphorylation PWY-7220: adenosine deoxyribonucleotides de novo biosynthesis II PWY-7222: guanosine deoxyribonucleotides de novo biosynthesis II PWY-7184: pyrimidine deoxyribonucleotides de novo biosynthesis I PWY0–166: superpathway of pyrimidine deoxyribonucleotides de novo biosynthesis (E. coli) GLUCOSE1PMETAB-PWY: glucose and glucose-1-phosphate degradation PWY–7197: pyrimidine deoxyribonucleotide phosphorylation PWY-6628: superpathway of L-phenylalanine biosynthesis PANTO-PWY: phosphopantothenate biosynthesis I PWY-7234: inosine-5'-phosphate biosynthesis III PWY0–1241: ADP–L–glycero–β–D–manno–heptose biosynthesis PWY-6936: seleno-amino acid biosynthesis PWY-5667: CDP-diacylglycerol biosynthesis I PWY0-1319: CDP-diacylglycerol biosynthesis II PWY-7208: superpathway of pyrimidine nucleobases salvage PWY–841: superpathway of purine nucleotides de novo biosynthesis I PWY-6126: superpathway of adenosine nucleotides de novo biosynthesis II PWY-7229: superpathway of adenosine nucleotides de novo biosynthesis I PWY-6125: superpathway of guanosine nucleotides de novo biosynthesis II PWY-7228: superpathway of guanosine nucleotides de novo biosynthesis I PWY-5103: L-isoleucine biosynthesis III ILEUSYN-PWY: L-isoleucine biosynthesis I (from threonine) VALSYN-PWY: L-valine biosynthesis PWY-6737: starch degradation V BRANCHED-CHAIN-AA-SYN-PWY: superpathway of branched amino acid biosynthesis PWY–5188: tetrapyrrole biosynthesis I (from glutamate) ANAEROFRUCAT-PWY: homolactic fermentation GLYCOLYSIS: glycolysis I (from glucose 6-phosphate) PWY-5484: glycolysis II (from fructose 6-phosphate) ANAGLYCOLYSIS-PWY: glycolysis III (from glucose) PWY-3001: superpathway of L-isoleucine biosynthesis I THRESYN-PWY: superpathway of L-threonine biosynthesis PWY-5097: L-lysine biosynthesis VI PWY-724: superpathway of L-lysine, L-threonine and L-methionine biosynthesis II PWY-2941: L-lysine biosynthesis II DAPLYSINESYN-PWY: L-lysine biosynthesis I P4-PWY: superpathway of L-lysine, L-threonine and L-methionine biosynthesis I PWY0-1479: tRNA processing PWY-7117: C4 photosynthetic carbon assimilation cycle, PEPCK type FERMENTATION-PWY: mixed acid fermentation PWY-5913: TCA cycle VI (obligate autotrophs) UNINTEGRATED PHOSLIPSYN-PWY: superpathway of phospholipid biosynthesis I (bacteria) PWY4FS-7: phosphatidylglycerol biosynthesis I (plastidic) PWY4FS-8: phosphatidylglycerol biosynthesis II (non-plastidic) PWY0–162: superpathway of pyrimidine ribonucleotides de novo biosynthesis DENOVOPURINE2-PWY: superpathway of purine nucleotides de novo biosynthesis II TRPSYN-PWY: L-tryptophan biosynthesis PWY-7187: pyrimidine deoxyribonucleotides de novo biosynthesis II PWY–5347: superpathway of L–methionine biosynthesis (transsulfuration) PWY-7221: quanosine ribonucleotides de novo biosynthesis HSERMETANA-PWY: L-methionine biosynthesis III PWY-5695: urate biosynthesis/inosine 5'-phosphate degradation PWY0–1061: superpathway of L–alanine biosynthesis ARO-PWY: chorismate biosynthesis I COMPLETE-ARO-PWY: superpathway of aromatic amino acid biosynthesis PWY66–400: glycolysis VI (metazoan) FASYN-INITIAL-PWY: superpathway of fatty acid biosynthesis initiation (E. coli) PWY-7388: octanoyl-[acyl-carrier protein] biosynthesis (mitochondria, yeast) HEMESYN2-PWY: heme biosynthesis II (anaerobic) PWY-5189: tetrapyrrole biosynthesis II (from glycine) GLCMANNANAUT-PWY: superpathway of N-acetylglucosamine, N-acetylmannosamine and N-acetylneuraminate degradation HEME-BIOSYNTHESIS-II: heme biosynthesis I (aerobic) PWY-5918: superpathay of heme biosynthesis from glutamate PWY0–1261: anhydromuropeptides recycling PENTOSE-P-PWY: pentose phosphate pathway PWY-6168: flavin biosynthesis III (fungi) PWY-7539: 6-hydroxymethyl-dihydropterin diphosphate biosynthesis III (Chlamydia) C_1

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