

central-extension3	acetoacetate degradation (to acetyl CoA)	alanine biosynthesis II	superpathway of allantoin degradation in yeast	superpathway of glutamate biosynthesis	glycolysis III
respiration (anaerobic)	arginine degradation I (arginase pathway)	arginine degradation X (arginine monooxygenase pathway)	arginine degradation VI (arginase 2 pathway)	spermine biosynthesis	arginine biosynthesis II (acetyl cycle)
chorismate biosynthesis I	asparagine biosynthesis I	asparagine degradation I	aspartate biosynthesis	lactose degradation III	superpathway of leucine, valine, and isoleucine biosynthesis
spermidine biosynthesis I	citrulline degradation	coenzyme A biosynthesis	superoxide radicals degradation	superpathway of ergosterol biosynthesis	fatty acid β-oxidation I
mixed acid fermentation	superpathway of tetrahydrofolate biosynthesis and salvage	glutamine biosynthesis I	gluconeogenesis I	D-gluconate degradation	glucose and glucose-1-phosphate degradation
glutamate biosynthesis IV	glutamate degradation I	glutamine degradation II	glutathione biosynthesis	glutathione redox reactions II	glutamate biosynthesis III
glutamate biosynthesis I	glycine cleavage complex	glycolysis I	glyoxylate cycle	glycine biosynthesis III	glycine biosynthesis I
glycine biosynthesis IV	heme biosynthesis from uroporphyrinogen-II	hexaprenyl diphosphate biosynthesis	histidine biosynthesis	homoserine biosynthesis	threonine biosynthesis from homoserine
isoleucine degradation I	isoleucine biosynthesis I (from threonine)	L-cysteine degradation II	leucine biosynthesis	triacylglycerol degradation	phospholipases
lysine biosynthesis IV	aspartate degradation II	D-mannose degradation	dolichyl-diphosphooligosaccharide biosynthesis	methionine degradation I (to homocysteine)	NAD salvage pathway II
pentose phosphate pathway (non-oxidative branch)	pentose phosphate pathway (oxidative branch)	pentose phosphate pathway (partial)	adenine and adenosine salvage I	phosphopantothenate biosynthesis I	pentose phosphate pathway
phenylalanine biosynthesis I	pyridoxal 5'-phosphate salvage pathway	proline biosynthesis I	2-methylcitrate cycle I	pyrimidine ribonucleotides de novo biosynthesis	salvage pathways of pyrimidine ribonucleotides
pyrimidine deoxyribonucleotides de novo biosynthesis I	glycerol degradation I	lipote biosynthesis and incorporation I	PRPP biosynthesis I	alanine biosynthesis III	trehalose degradation II (trehalase)
biotin-carboxyl carrier protein assembly	purine ribonucleosides degradation to ribose-1-phosphate	glutamate dependent acid resistance	acetate conversion to acetyl-CoA	biotin biosynthesis from 7-keto-8-aminopelargonic acid	sphingosine and sphingosine-1-phosphate metabolism
ubiquinol-6 biosynthesis (eukaryotic)	glutamate degradation IX (via 4-aminobutyrate)	(R,R)-butanediol degradation	phosphatidylcholine biosynthesis I	NAD salvage pathway III	tyrosine degradation III
phosphatidylethanolamine biosynthesis II	phosphatidylglycerol biosynthesis II (non-plastidic)	putrescine biosynthesis III	cholesterol biosynthesis II (via 24,25-dihydrolanosterol)	cholesterol biosynthesis III (via desmosterol)	superpathway of cholesterol biosynthesis
ethanol degradation II (cytosolic)	ethanol degradation IV (peroxisomal)	cholesterol biosynthesis I	superpathway of glyoxylate cycle	homocysteine and cysteine interconversion	superpathway of sulfur amino acid biosynthesis (Saccharomyces cerevisiae)
purine nucleotides de novo biosynthesis II	mevalonate pathway I	formaldehyde oxidation V (tetrahydrofolate pathway)	folate polyglutamylation	folate transformations I	plant sterol biosynthesis
fatty acid ω-oxidation	isoleucine biosynthesis I	choline biosynthesis III	aerobic respiration -- electron donor II	folate transformations II (plants)	γ-glutamyl cycle
glutathione-mediated detoxification	glutathione redox reactions I	sorbitol degradation I	glycerol degradation IV	DIMBOA-glucoside degradation	proline biosynthesis II (from arginine)
<i>S</i>-adenosyl-L-methionine cycle II	valine degradation II (via 4-aminobutyrate)	glycogen biosynthesis II (from UDP-D-Glucose)	leucine degradation III	isoleucine degradation II	phenylalanine degradation III
very long chain fatty acid biosynthesis	tryptophan degradation VIII (to tryptophol)	methionine degradation III	NAD/NADH phosphorylation and dephosphorylation	2-ketoglutarate dehydrogenase complex	geranylgeranyldiphosphate biosynthesis
geranyl diphosphate biosynthesis	<i>trans, trans</i>-farnesyl diphosphate biosynthesis	fatty acid β-oxidation II (core pathway)	fatty acid activation	acyl-CoA hydrolysis	tetrapyrrole biosynthesis II
siroheme biosynthesis	cardiolipin biosynthesis II	lysine degradation IX	sulfate activation for sulfonation	homocysteine biosynthesis	thiosulfate disproportionation III (rhodanese)
methylglyoxal degradation I	methylthiopropionate biosynthesis	methylglyoxal degradation V	pyruvate fermentation to ethanol II	GDP-mannose biosynthesis	CDP-diacylglycerol biosynthesis I
phosphatidylethanolamine biosynthesis I	epoxysqualene biosynthesis	uridine-5'-phosphate biosynthesis	pyrimidine ribonucleotides interconversion	TCA cycle variation III (eukaryotic)	urate degradation to allantoin
allantoin degradation to ureidoglycolate I (urea producing)	urea degradation I	itaconate biosynthesis	phenylethanol biosynthesis	β-alanine biosynthesis IV	glycogen degradation III
ubiquinol-8 biosynthesis (eukaryotic)	4-hydroxyphenylpyruvate biosynthesis	superpathway of geranylgeranyldiphosphate biosynthesis I (via mevalonate)	heme biosynthesis II	L-glutamine biosynthesis II (tRNA-dependent)	<i>R</i>-acetoin biosynthesis I
glycogen degradation II	<i>R,R</i>-butanediol biosynthesis	fatty acid biosynthesis initiation II	fatty acids biosynthesis (yeast)	oleate biosynthesis II (animals)	γ-linolenate biosynthesis II (animals)
acyl carrier protein metabolism	pseudouridine degradation	zymosterol biosynthesis	ergosterol biosynthesis	glycerol-3-phosphate shuttle	5-aminoimidazole ribonucleotide biosynthesis I
5-aminoimidazole ribonucleotide biosynthesis II	inosine-5'-phosphate biosynthesis II	adenosine nucleotides de novo biosynthesis	dolichol and dolichyl phosphate biosynthesis	lanosterol biosynthesis	6-hydroxymethyl-dihydropterin diphosphate biosynthesis
<i>S</i>-adenosyl-L-methionine cycle I	3-dehydroquinate biosynthesis I	flavin biosynthesis III (fungi)	superpathway of 5-aminoimidazole ribonucleotide biosynthesis	selenocysteine biosynthesis II (archaea and eukaryotes)	cysteine biosynthesis IV (fungi)
galactose degradation I (Leilor pathway)	acetaldehyde biosynthesis II	acetaldehyde biosynthesis I	phosphate acquisition II	D-myo-inositol (1,4,5)-trisphosphate biosynthesis	3-phosphoinositide biosynthesis
phosphate regeneration in cell wall regeneration	superpathway of D-myo-inositol (1,4,5)-trisphosphate metabolism	1D-myo-inositol hexakisphosphate biosynthesis I (from Ins(1,4,5)P3)	D-myo-inositol (1,4,5)-trisphosphate degradation	D-myo-inositol (1,4,5)-trisphosphate biosynthesis	<i>meso</i>-butanediol biosynthesis I
<i>meso</i>-butanediol biosynthesis II	sitosterol biosynthesis	4-aminobutyrate degradation III	p-aminobenzoate biosynthesis	pyrimidine ribonucleosides degradation II	adenine and adenosine salvage II
guanosine nucleotides degradation II	superpathway of tetrahydrofolate biosynthesis	tetrahydrofolate salvage from 5,10-methylytetrahydrofolate	tetrahydrofolate biosynthesis	adenine and adenosine salvage VI	superpathway of phenylalanine biosynthesis
superpathway of tryptophan biosynthesis	galactose degradation IV	NAD salvage pathway I	acetyl-CoA biosynthesis (from pyruvate)	xanthine and xanthosine salvage	5-adenosyl-L-methionine biosynthesis
superpathway of serine and glycine biosynthesis I	serine biosynthesis	sulfate reduction I (assimilatory)	sphingolipid metabolism	thioredoxin pathway	threonine biosynthesis
trehalose biosynthesis I	triacylglycerol biosynthesis	tRNA charging pathway	tryptophan biosynthesis	UDP-N-acetyl-D-glucosamine biosynthesis II	valine degradation I
valine biosynthesis	xylose degradation I				