



	Cytochrome c oxidase	
	Citrate cycle (TCA cycle, Krebs cycle)	
	3-Hydroxypropionate bi-cycle	
	Reductive citrate cycle (Arnon-Buchanan cycle)	
	Formaldehyde assimilation, xylulose monophosphate pathway	
	Dissimilatory nitrate reduction, nitrate => ammonia	
	Cytochrome o ubiquinol oxidase	
	NADH:quinone oxidoreductase, prokaryotes	
	Succinate dehydrogenase, prokaryotes	
	Entner-Doudoroff pathway, glucose-6P => glyceraldehyde-3P + pyruvate	
	Cytochrome c oxidase, cbb3-type	
	Cytochrome bc1 complex respiratory unit	
	F-type ATPase, prokaryotes and chloroplasts	
	Phosphate acetyltransferase-acetate kinase pathway, acetyl-CoA => acetate	
	Sulfate transport system	
	Cytochrome c oxidase, prokaryotes	
	Dissimilatory sulfate reduction, sulfate => H2S	
	Assimilatory nitrate reduction, nitrate => ammonia	
	Energy-coupling factor transport system	
	Nitrogen fixation, nitrogen => ammonia	
	NAD(P)H:quinone oxidoreductase, chloroplasts and cyanobacteria	
	Fumarate reductase, prokaryotes	
	Multidrug/hemolysin transport system	
	NADH dehydrogenase (ubiquinone) Fe-S protein/flavoprotein complex, mitochondria	
	Complete nitrification, comammox, ammonia => nitrite => nitrate	
	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex	
	Nitrate/nitrite transport system	
	Nitrification, ammonia => nitrite	
	Cytochrome aa3-600 menaquinol oxidase	
	Iron/zinc/manganese/copper transport system	
	Manganese/iron transport system	
	NADH:ubiquinone oxidoreductase, mitochondria	
	Manganese/zinc/iron transport system	
	V-type ATPase, eukaryotes	
	C21-Steroid hormone biosynthesis, progesterone => cortisol/cortisone	
	Methane oxidation, methanotroph, methane => formaldehyde	
	NADH dehydrogenase (ubiquinone) 1 beta subcomplex	
	F-type ATPase, eukaryotes	
	PTS system, glucose-specific II component	
	Semi-phosphorylative Entner-Doudoroff pathway, gluconate/galactonate => glycerate-3P	
	alpha-Hemolysin/cyclolysin transport system	
	Succinate dehydrogenase (ubiquinone)	
	Denitrification, nitrate => nitrogen	
	PTS system, maltose/glucose-specific II component	
	PTS system, beta-glucoside (arbutin/salicin/cellobiose)-specific II component	
	Cytochrome bc1 complex	
	Cytochrome bd ubiquinol oxidase	
	Coenzyme M biosynthesis	
	Methanogenesis, methanol => methane	
	F420 biosynthesis	
	Acetyl-CoA pathway, CO2 => acetyl-CoA	
	Iron complex transport system	
	V/A-type ATPase, prokaryotes	
	Non-phosphorylative Entner-Doudoroff pathway, gluconate/galactonate => glycerate	
	Methanogenesis, CO2 => methane	
	Methanogenesis, 2-oxoglutarate => 2-oxoadipate => 2-oxopimelate => 2-oxosuberate	
	Methanogenesis, methylamine/dimethylamine/trimethylamine => methane	
	Pentose phosphate pathway, oxidative phase, glucose 6P => ribulose 5P	
	D-Glucuronate degradation, D-glucuronate => pyruvate + D-glyceraldehyde 3P	
	D-Galacturonate degradation (bacteria), D-galacturonate => pyruvate + D-glyceraldehyde 3P	
	Reductive acetyl-CoA pathway (Wood-Ljungdahl pathway)	
	Semi-phosphorylative Entner-Doudoroff pathway, gluconate => glycerate-3P	
	Methylaspartate cycle	
	Citrate cycle, second carbon oxidation, 2-oxoglutarate => oxaloacetate	
	Pentose phosphate pathway, archaea, fructose 6P => ribose 5P	
	Methanogenesis, acetate => methane	
	Formaldehyde assimilation, ribulose monophosphate pathway	
	Ascorbate biosynthesis, plants, glucose-6P => ascorbate	
	PRPP biosynthesis, ribose 5P => PRPP	
	Pyruvate oxidation, pyruvate => acetyl-CoA	
	Pentose phosphate pathway, non-oxidative phase, fructose 6P => ribose 5P	
	Incomplete reductive citrate cycle, acetyl-CoA => oxoglutarate	
	Hydroxypropionate-hydroxybutyrate cycle	
	Formaldehyde assimilation, serine pathway	
	Dicarboxylate-hydroxybutyrate cycle	
	Thiosulfate oxidation by SOX complex, thiosulfate => sulfate	
	Pentose phosphate pathway (Pentose phosphate cycle)	
	Citrate cycle, first carbon oxidation, oxaloacetate => 2-oxoglutarate	
	Glycolysis, core module involving three-carbon compounds	
	Gluconeogenesis, oxaloacetate => fructose-6P	

- Sphingomonadales_2
- Sphingomonadales_5
- Alteromonadales_3b
- Alteromonadales_3
- Methanococci_7
- Thermoprotei_23
- Thermoprotei_20
- Thermococci_4
- Nanoarchaeales_43
- Sulfurovum_31
- Aquificales_21
- Aquificales_14b
- Pseudomonadales_1
- Pseudomonadales_4