Pyruvate oxidation, pyruvate => acetyl-CoA
Glycolysis (Embden-Meyerhof pathway), glucose => pyruvate
Glycolysis, core module involving three-carbon compounds
Gluconeogenesis, oxaloacetate => fructose-6P
PRPP biosynthesis, ribose 5P => PRPP
Iron complex transport system
Succinate dehydrogenase, prokaryotes
Citrate cycle, first carbon oxidation, oxaloacetate => 2-oxoglutarate
Reductive citrate cycle (Arnon-Buchanan cycle)
Pentose phosphate pathway (Pentose phosphate cycle)
Pentose phosphate pathway, non-oxidative phase, fructose 6P => ribose 5P
Citrate cycle (TCA cycle, Krebs cycle)
Citrate cycle, second carbon oxidation, 2-oxoglutarate => oxaloacetate
Cytochrome o ubiquinol oxidase
NADH:quinone oxidoreductase, prokaryotes
F-type ATPase, prokaryotes and chloroplasts
Phosphate acetyltransferase-acetate kinase pathway, acetyl-CoA => acetate
Methanogenesis, CO2 => methane
Acetyl-CoA pathway, CO2 => acetyl-CoA
2-Oxocarboxylic acid chain extension, 2-oxoglutarate => 2-oxoadipate => 2-oxopimelate => 2-oxosuberate
F420 biosynthesis
Nitrogen fixation, nitrogen => ammonia
Coenzyme M biosynthesis
Methanogenesis, methylamine/dimethylamine/trimethylamine => methane
Methanogenesis, methanol => methane
Non-phosphorylative Entner-Doudoroff pathway, gluconate/galactonate => glycerate
Energy-coupling factor transport system
Hydroxypropionate-hydroxybutylate cycle
Cytochrome bc1 complex
Denitrification, nitrate => nitrogen
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)
D-Glucuronate degradation, D-glucuronate => pyruvate + D-glyceraldehyde 3P
D-Galacturonate degradation (bacteria), D-galacturonate => pyruvate + D-glyceraldehyde 3P
Entner-Doudoroff pathway, glucose-6P => glyceraldehyde-3P + pyruvate
Cytochrome c oxidase
Pentose phosphate pathway, oxidative phase, glucose 6P => ribulose 5P
Cytochrome c oxidase, prokaryotes
Cytochrome c oxidase, cbb3-type
Cytochrome bc1 complex respiratory unit
Pentose phosphate pathway, archaea, fructose 6P => ribose 5P
V/A-type ATPase, prokaryotes
Thiosulfate oxidation by SOX complex, thiosulfate => sulfate
PTS system, maltose/glucose-specific II component
PTS system, beta-glucoside (arbutin/salicin/cellobiose)-specific II component
Incomplete reductive citrate cycle, acetyl-CoA => oxoglutarate
Formaldehyde assimilation, serine pathway
Dicarboxylate-hydroxybutyrate cycle
Formaldehyde assimilation, ribulose monophosphate pathway
Methanogenesis, acetate => methane
Ascorbate biosynthesis, plants, glucose-6P => ascorbate
Sulfate transport system
Semi-phosphorylative Entner-Doudoroff pathway, gluconate => glycerate-3P
Cytochrome bd ubiquinol oxidase
Formaldehyde assimilation, xylulose monophosphate pathway
Dissimilatory sulfate reduction, sulfate => H2S
Dissimilatory nitrate reduction, nitrate => ammonia
Assimilatory nitrate reduction, nitrate => ammonia
Reductive acetyl-CoA pathway (Wood-Ljungdahl pathway)
3-Hydroxypropionate bi-cycle
Methylaspartate cycle
Alteromonadales_3
Alteromonadales_3b
Sphingomonadales_5
Sphingomonadales_2
Sulfurovum_31
Pseudomonadales_4
Pseudomonadales_1
Thermococci_4
Thermoprotei_20
Thermoprotei_23
Aquificales_14b
Methanococci_7
Nanoarchaeales_43
Aquificales_21