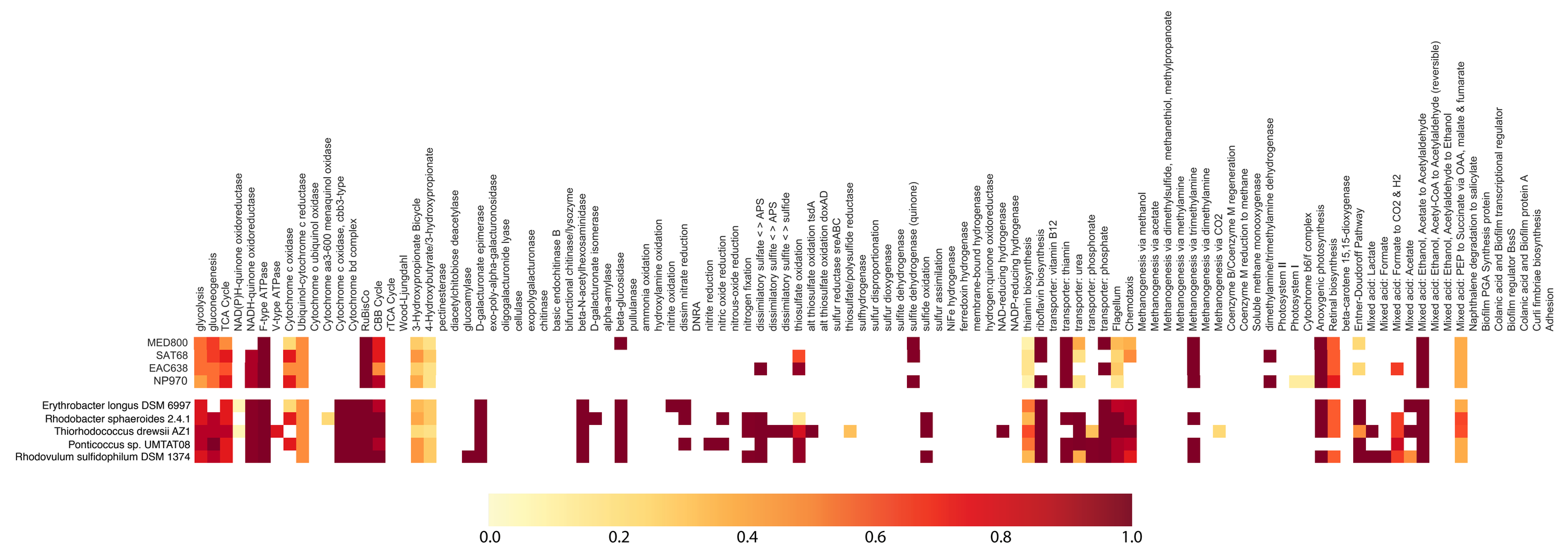
glycolysis
gluconeogenesis
TCA Cycle
NAD(P)H-quinone oxidoreductase
NADH-quinone oxidoreductase
F-type ATPase
V-type ATPase
Cytochrome c oxidase
Ubiquinol-cytochrome c reductase
Cytochrome o ubiquinol oxidase
Cytochrome aa3-600 menaquinol oxidase
Cytochrome c oxidase, cbb3-type
Cytochrome bd complex
RuBisCo
CBB Cycle
rTCA Cycle
Wood-Ljungdahl
3-Hydroxypropionate Bicycle
4-Hydroxybutyrate/3-hydroxypropionate
pectinesterase
diacetylchitobiose deacetylase
glucoamylase
D-galacturonate epimerase
exo-poly-alpha-galacturonosidase
oligogalacturonide lyase
cellulase
exopolygalacturonase
chitinase
basic endochitinase B
bifunctional chitinase/lysozyme
beta-N-acetylhexosaminidase
D-galacturonate isomerase
alpha-amylase
beta-glucosidase
pullulanase
ammonia oxidation
hydroxylamine oxidation
nitrite oxidation
dissim nitrate reduction
DNRA
nitrite reduction
nitric oxide reduction
nitrous-oxide reduction
nitrogen fixation
dissimilatory sulfate < > APS
dissimilatory sulfite < > APS
dissimilatory sulfite < > sulfide
thiosulfate oxidation
alt thiosulfate oxidation tsdA
alt thiosulfate oxidation doxAD
sulfur reductase sreABC
thiosulfate/polysulfide reductase
sulfhydrogenase
sulfur disproportionation
sulfur dioxygenase
sulfite dehydrogenase
sulfite dehydrogenase (quinone)
sulfide oxidation
sulfur assimilation
NiFe hydrogenase
ferredoxin hydrogenase
membrane-bound hydrogenase
hydrogen:quinone oxidoreductase
NAD-reducing hydrogenase
NADP-reducing hydrogenase
thiamin biosynthesis
riboflavin biosynthesis
transporter: vitamin B12
transporter: thiamin
transporter: urea
transporter: phosphonate
transporter: phosphate
Flagellum
Chemotaxis
Methanogenesis via methanol
Methanogenesis via acetate
Methanogenesis via dimethylsulfide, methanethiol, methylpropanoate
Methanogenesis via methylamine
Methanogenesis via trimethylamine
Methanogenesis via dimethylamine
Methanogenesis via CO2
Coenzyme B/Coenzyme M regeneration
Coenzyme M reduction to methane
Soluble methane monooxygenase
dimethylamine/trimethylamine dehydrogenase
Photosystem II
Photosystem I
Cytochrome b6/f complex
Anoxygenic photosynthesis
Retinal biosynthesis
beta-carotene 15,15-dioxygenase
Entner-Doudoroff Pathway
Mixed acid: Lactate
Mixed acid: Formate
Mixed acid: Formate to CO2 & H2
Mixed acid: Acetate
Mixed acid: Ethanol, Acetate to Acetylaldehyde
Mixed acid: Ethanol, Acetyl-CoA to Acetylaldehyde (reversible)
Mixed acid: Ethanol, Acetylaldehyde to Ethanol
Mixed acid: PEP to Succinate via OAA, malate & fumarate
Naphthalene degradation to salicylate
Biofilm PGA Synthesis protein
Colanic acid and Biofilm transcriptional regulator
Biofilm regulator BssS
Colanic acid and Biofilm protein A
Curli fimbriae biosynthesis
Adhesion
MED800
SAT68
EAC638
NP970
Erythrobacter longus DSM 6997
Rhodobacter sphaeroides 2.4.1
Thiorhodococcus drewsii AZ1
Ponticoccus sp. UMTAT08
Rhodovulum sulfidophilum DSM 1374
0.0
0.2
0.4
0.6
0.8
1.0