0.5 1.0 1.5

	_		
		contaminated	not_contaminated
	LIMD Line of the state	- Correction and Correction	not_contaminated
	UMP biosynthesis		
	UDP-N-acetyl-D-glucosamine biosynthesis I		
	tetrapyrrole biosynthesis I from glutamate - TCA cycle V 2–oxoglutarate:ferredoxin oxidoreductase -		
	TCA cycle v 2-oxoglutarate: terredoxin oxidoreductase		
superpathway of pyrimidine ribonucleotides de novo biosynthesis - superpathway of pyrimidine nucleobases salvage - superpathway of purine nucleotides de novo biosynthesis I -			
	superpáthway of phospholipid biosynthesis 1 bacteria - superpathway of L-threonine biosynthesis -		
	superpathway of L-serine and glycine biosynthesis I		
	superpathway of L-isoleucine biosynthesis I-		
SUDA	pathway of guanosine nucleotides de novo biosynthesis II		
Supe	rpathway of guanosine nucleotides de novo biosynthesis I		
oupc	superpathway of branched amino acid biosynthesis		
	superpathway of aromatic amino acid biosynthesis		
supe	pathway of adenosine nucleotides de novo biosynthesis II		
SUDE	rpathway of adenosine nucleotides de novo biosynthesis I		
supe	pathway of 5-aminoimidazole ribonucleotide biosynthesis		
1	pyruvate fermentation to isobutanol engineered		
<b>≥</b>	phosphatidylglycerol biosynthesis II non-plastidic		
<b>×</b>	phosphatidylglyceról biosynthesis I plastidic		-
ک	pentose phosphate pathway non-oxidative branch		
at	L-valine biosynthesis		
<u>a</u>	L-tryptophan biosynthesis		
2	L-lysine biosynthesis VI		
Ś	L-lysine biosynthesis III		
PICRUSt2 pathway	L–isoleúcine biosýnthesis IV		
<u>K</u>	L–isoleucine biosynthesis III-		
<b>≥</b>	L-isoleucine biosynthesis II		
ш.	L-isoleucine biosynthesis I from threonine		
	L-arginine biosynthesis II acetyl cycle incomplete reductive TCA cycle		
	guanosine ribonucleotides de novo biosynthesis		
	guanosine deoxyribonucleotides de novo biosynthesis II		
	gondoate biosynthesis anaerobic		
	glycolysis III from glucose		
	GDP-mannose biosynthesis		
	fatty acid elongation — saturated <del>l</del>		
	coenzyme A biosynthesis I		
	cis-vaccenate biosynthesis		
	chorismate biosynthesis I -		
	chorismate biosynthesis from 3-dehydroquinate		
	CDP-diacylglycerol biosynthesis II+		
	CDP-diacy[glycerol biosynthesis I+		
	chorismate biosynthesis from 3-dehydroquinate - CDP-diacylglycerol biosynthesis II - CDP-diacylglycerol biosynthesis I - Calvin-Benson-Bassham cycle -		
	aerobic respiration I cytochrome c- adenosine ribonucleotides de novo biosynthesis		
	adenosine ribonucleotides de novo biosynthesis		
	adenosine deoxyribonucieotides de novo biosynthesis ii j		
	5–aminoimidazole ribonucleotide biosynthesis II		
	5-aminoimidazole ribonucleotide biośynthesis I 😓		