

UMAP 1

## Translation, ribosomal structure and biogenesis!!!Translation, ribosomal structure and biogenesis!!!General function prediction only anslation, ribosomal structure and biogenesis!!!Translation, ribosomal structure and biogenesis ranslation, ribosomal structure and biogenesis!!!Transcription ranslation, ribosomal structure and biogenesis!!!Replication, recombination and repair!!!Transcription ranslation, ribosomal structure and biogenesis!!!Posttranslational modification, protein turnover, chaperones anslation, ribosomal structure and biogenesis!!!General function prediction only!!!Signal transduction mechanisms!!!Signal transduction mechanisms anslation, ribosomal structure and biogenesis!!!General function prediction only anslation, ribosomal structure and biogenesis!!!Defense mechanisms ranslation, ribosomal structure and biogenesis!!!Amino acid transport and metabolism anslation, ribosomal structure and biogenesis ranscription!!!Translation, ribosomal structure and biogenesis ranscription!!!Signal transduction mechanisms!!!Signal transduction mechanisms ranscription!!!Signal transduction mechanisms ranscription!!!Replication, recombination and repair!!!Replication, recombination and repair ranscription!!!Replication, recombination and repair ranscription!!!Energy production and conversion ranscription!!!Coenzyme transport and metabolism ranscription!!!Cell wall/membrane/envelope biogenesis!!!Posttranslational modification, protein turnover, chaperones ranscription Signal transduction mechanisms!!!Transcription!!!Cell motility!!!Extracellular structures anal transduction mechanisms!!!Transcription Signal transduction mechanisms!!!!ranscription Signal transduction mechanisms!!!Signal transduction mechanisms!!!Transcription!!!Signal transduction mechanisms Signal transduction mechanisms!!!Signal transduction mechanisms!!!Transcription Signal transduction mechanisms!!!Signal transduction mechanisms Signal transduction mechanisms!!!Signal transduction mechanisms Signal transduction mechanisms!!!General function prediction only ignal transduction mechanisms!!!Cell wall/membrane/envelope biogenesis Signal transduction mechanisms Secondary metabolites biosynthesis, transport and catabolism!!!Intracellular trafficking, secretion, and vesicular transport Secondary metabolites biosynthesis, transport and catabolism!!!General function prediction only Secondary metabolites biosynthesis, transport and catabolism!!!Defense mechanisms Secondary metabolites biosynthesis, transport and catabolism Replication, recombination and repair!!!Transcription Replication, recombination and repair!!!Replication, recombination and repair Replication, recombination and repair!!!Function unknown Replication, recombination and repair!!!Coenzyme transport and metabolism Replication, recombination and repair Posttranslational modification, protein turnover, chaperones!!!Translation, ribosomal structure and biogenesis Posttranslational modification, protein turnover, chaperones!!!Transcription Posttranslational modification, protein turnover, chaperones!!!Transcription Posttranslational modification, protein turnover, chaperones!!!Posttranslational modification, protein turnover, chaperones Posttranslational modification, protein turnover, chaperones!!!Lipid transport and metabolism!!!Lipid transport and metabolism Posttranslational modification, protein turnover, chaperones!!!Inorganic ion transport and metabolism Posttranslational modification, protein turnover, chaperones!!!Function unknown Posttranslational modification, protein turnover, chaperones!!!Amino acid transport and metabolism Posttranslational modification, protein turnover, chaperones!!!Amino acid transport and metabolism Posttranslational modification, protein turnover, chaperones!!!Amino acid transport and metabolism Posttranslational modification, protein turnover, chaperones Nucleotide transport and metabolism!!!Signal transduction mechanisms Nucleotide transport and metabolism!!!Nucleotide transport and metabolism Nucleotide transport and metabolism!!!General function prediction only!!!Coenzyme transport and metabolism Nucleotide transport and metabolism!!!General function prediction only Nucleotide transport and metabolism!!!Defense mechanisms Nucleotide transport and metabolism!!!Cell wall/membrane/envelope biogenesis Nucleotide transport and metabolism!!!Cell cycle control, cell division, chromosome partitioning Nucleotide transport and metabolism Mobilome: prophages, transposons Lipid transport and metabolism!!!Secondary metabolites biosynthesis, transport and catabolism Lipid transport and metabolism!!!Lipid transport and metabolism Lipid transport and metabolism!!!General function prediction only!!!Energy production and conversion Lipid transport and metabolism!!!General function prediction only Lipid transport and metabolism!!!Cell wall/membrane/envelope biogenesis Lipid transport and metabolism Intracellular trafficking, secretion, and vesicular transport!!!Intracellular trafficking, secretion, and vesicular transport Intracellular trafficking, secretion, and vesicular transport!!!Extracellular structures Intracellular trafficking, secretion, and vesicular transport!!!Cell wall/membrane/envelope biogenesis Intracellular trafficking, secretion, and vesicular transport Inorganic ion transport and metabolism!!!Signal transduction mechanisms Inorganic ion transport and metabolism!!!Secondary metabolites biosynthesis, transport and catabolism Inorganic ion transport and metabolism!!!Defense mechanisms Inorganic ion transport and metabolism!!!Coenzyme transport and metabolism Inorganic ion transport and metabolism General function prediction only!!!Signal transduction mechanisms General function prediction only!!!Intracellular trafficking, secretion, and vesicular transport!!!Cell wall/membrane/envelope biogenesis General function prediction only!!!Inorganic ion transport and metabolism General function prediction 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and metabolism Defense mechanisms!!!Defense mechanisms Defense mechanisms Coenzyme transport and metabolism!!!Secondary metabolites biosynthesis, transport and catabolism Coenzyme transport and metabolism!!!Posttranslational modification, protein turnover, chaperones Coenzyme transport and metabolism!!!Nucleotide transport and metabolism Coenzyme transport and metabolism!!!Lipid transport and metabolism Coenzyme transport and metabolism!!!General function prediction only Coenzyme transport and metabolism!!!Function unknown Coenzyme transport and metabolism!!!Energy production and conversion Coenzyme transport and metabolism!!!Defense mechanisms Coenzyme transport and metabolism!!!Coenzyme transport and metabolism Coenzyme transport and metabolism!!!Amino acid transport and metabolism Coenzyme transport and metabolism Cell wall/membrane/envelope biogenesis!!!Signal transduction mechanisms Cell wall/membrane/envelope biogenesis!!!Posttranslational modification, protein turnover, chaperones!!!Cell wall/membrane/envelope biogenesis!!!Posttranslational modification, protein turnover, chaperones Cell wall/membrane/envelope biogenesis!!!Intracellular trafficking, secretion, and vesicular transport Cell wall/membrane/envelope biogenesis!!!Intracellular trafficking, secretion, and vesicular transport Cell wall/membrane/envelope biogenesis!!!Intracellular transport and wall/membrane/envelope biogenesis!!!! 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Amino acid transport and metabolism!!!Coenzyme transport and metabolism!!!Translation, ribosomal structure and biogenesis!!!Secondary metabolites biosynthesis, transport and catabolism

Carbohydrate transport and metabolism!!!Amino acid transport and metabolism!!!General function prediction only

Carbohydrate transport and metabolism

mino acid transport and metabolism

mino acid transport and metabolism!!!Transcription

Amino acid transport and metabolism!!!Function unknown

Amino acid transport and metabolism!!!Nucleotide transport and metabolism Amino acid transport and metabolism!!!General function prediction only

Amino acid transport and metabolism!!!Coenzyme transport and metabolism Amino acid transport and metabolism!!!Cell wall/membrane/envelope biogenesis

Amino acid transport and metabolism!!!Carbohydrate transport and metabolism Amino acid transport and metabolism!!!Amino acid transport and metabolism

Amino acid transport and metabolism!!!Cell cycle control, cell division, chromosome partitioning