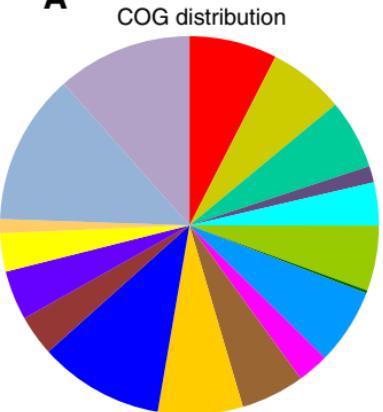
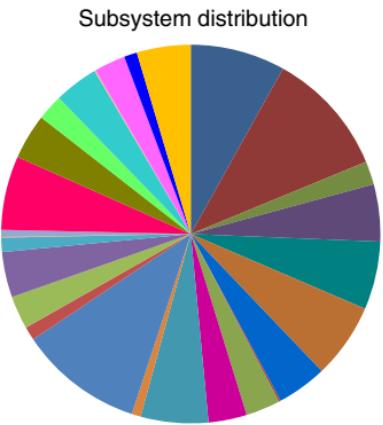


A**COG category feature (counts)**

- Translation, ribosomal structure and biogenesis (149)
- Transcription (129)
- Replication, recombination and repair (118)
- Cell cycle control, cell division, chromosome partitioning (28)
- Posttranslational modification, protein turnover, chaperones (73)
- Cell wall/ membrane/ envelope biogenesis (111)
- Cell motility (5)
- Inorganic ion transport and metabolism (129)
- Signal transduction mechanisms (53)
- Energy production and conversion (108)
- Carbohydrate transport and metabolism (144)
- Amino acid transport and metabolism (212)
- Nucleotide transport and metabolism (69)
- Coenzyme transport and metabolism (84)
- Lipid transport and metabolism (65)
- Secondary metabolites biosynthesis, transport and catabolism (24)
- General function prediction only (257)
- Function unknown (229)

B**Subsystem feature (counts)**

- Amino Acids and Derivatives (146)
- Carbohydrates (193)
- Cell Division and Cell Cycle (36)
- Cell Wall and Capsule (88)
- Clustering-based subsystems (105)
- Cofactors, Vitamins, Prosthetic Groups, Pigments (116)
- DNA Metabolism (77)
- Dormancy and Sporulation (3)
- Fatty Acids, Lipids, and Isoprenoids (53)
- Iron acquisition and metabolism (59)
- Membrane Transport (104)
- Metabolism of Aromatic Compounds (14)
- Miscellaneous (191)
- Nitrogen Metabolism (21)
- Nucleosides and Nucleotides (51)
- Phages, Prophages, Transposable elements, Plasmids (70)
- Phosphorus Metabolism (22)
- Photosynthesis (1)
- Potassium metabolism (11)
- Protein metabolism (114)
- Regulation and Cell signaling (146)
- Respiration (40)
- RNA Metabolism (68)
- Secondary Metabolism (2)
- Stress Response (48)
- Sulfur Metabolism (48)
- Virulence, Disease and Defense (83)