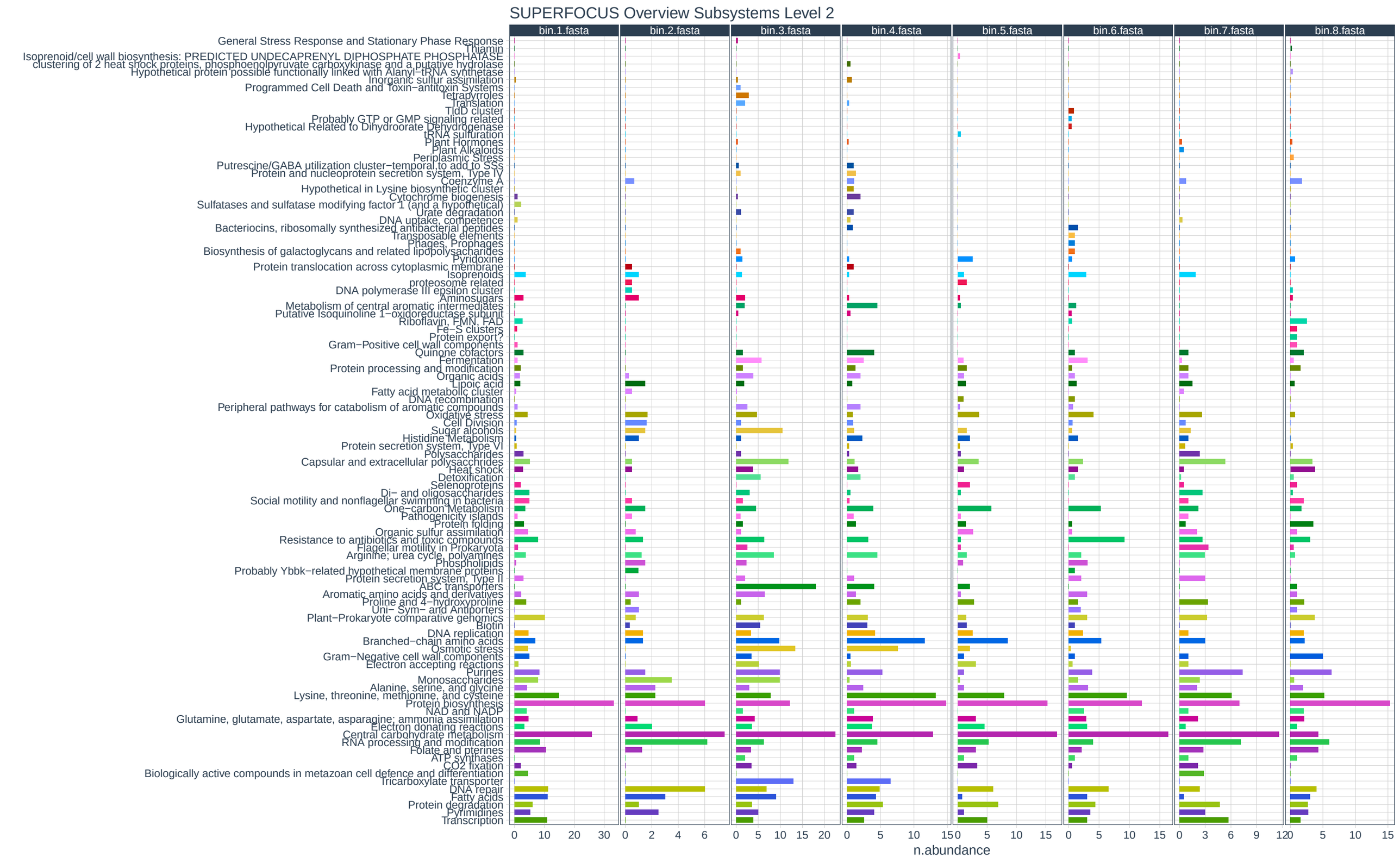
SUPERFOCUS Overview Subsystems Level 2
bin.1.fasta
bin.2.fasta
bin.3.fasta
bin.4.fasta
bin.5.fasta
bin.6.fasta
bin.7.fasta
bin.8.fasta
General Stress Response and Stationary Phase Response
Thiamin
Isoprenoid/cell wall biosynthesis: PREDICTED UNDECAPRENYL DIPHOSPHATE PHOSPHATASE
clustering of 2 heat shock proteins, phosphoenolpyruvate carboxykinase and a putative hydrolase
Hypothetical protein possible functionally linked with Alanyl−tRNA synthetase
Inorganic sulfur assimilation
Programmed Cell Death and Toxin−antitoxin Systems
Tetrapyrroles
Translation
TldD cluster
Probably GTP or GMP signaling related
Hypothetical Related to Dihydroorate Dehydrogenase
tRNA sulfuration
Plant Hormones
Plant Alkaloids
Periplasmic Stress
Putrescine/GABA utilization cluster−temporal,to add to SSs
Protein and nucleoprotein secretion system, Type IV
Coenzyme A
Hypothetical in Lysine biosynthetic cluster
Cytochrome biogenesis
Sulfatases and sulfatase modifying factor 1 (and a hypothetical)
Urate degradation
DNA uptake, competence
Bacteriocins, ribosomally synthesized antibacterial peptides
Transposable elements
Phages, Prophages
Biosynthesis of galactoglycans and related lipopolysaccharides
Pyridoxine
Protein translocation across cytoplasmic membrane
Isoprenoids
proteosome related
DNA polymerase III epsilon cluster
Aminosugars
Metabolism of central aromatic intermediates
Putative Isoquinoline 1−oxidoreductase subunit
Riboflavin, FMN, FAD
Fe−S clusters
Protein export?
Gram−Positive cell wall components
Quinone cofactors
Fermentation
Protein processing and modification
Organic acids
Lipoic acid
Fatty acid metabolic cluster
DNA recombination
Peripheral pathways for catabolism of aromatic compounds
Oxidative stress
Cell Division
Sugar alcohols
Histidine Metabolism
Protein secretion system, Type VI
Polysaccharides
Capsular and extracellular polysaccharides
Heat shock
Detoxification
Selenoproteins
Di− and oligosaccharides
Social motility and nonflagellar swimming in bacteria
One−carbon Metabolism
Pathogenicity islands
Protein folding
Organic sulfur assimilation
Resistance to antibiotics and toxic compounds
Flagellar motility in Prokaryota
Arginine; urea cycle, polyamines
Phospholipids
Probably Ybbk−related hypothetical membrane proteins
Protein secretion system, Type II
ABC transporters
Aromatic amino acids and derivatives
Proline and 4−hydroxyproline
Uni− Sym− and Antiporters
Plant−Prokaryote comparative genomics
Biotin
DNA replication
Branched−chain amino acids
Osmotic stress
Gram−Negative cell wall components
Electron accepting reactions
Purines
Monosaccharides
Alanine, serine, and glycine
Lysine, threonine, methionine, and cysteine
Protein biosynthesis
NAD and NADP
Glutamine, glutamate, aspartate, asparagine; ammonia assimilation
Electron donating reactions
Central carbohydrate metabolism
RNA processing and modification
Folate and pterines
ATP synthases
CO2 fixation
Biologically active compounds in metazoan cell defence and differentiation
Tricarboxylate transporter
DNA repair
Fatty acids
Protein degradation
Pyrimidines
Transcription
0 10 20 30
0 2 4 6
0 5 10 15 20
0 5 10 15
0 5 10 15
0 5 10 15
0 3 6 9 12
0 5 10 15
n.abundance