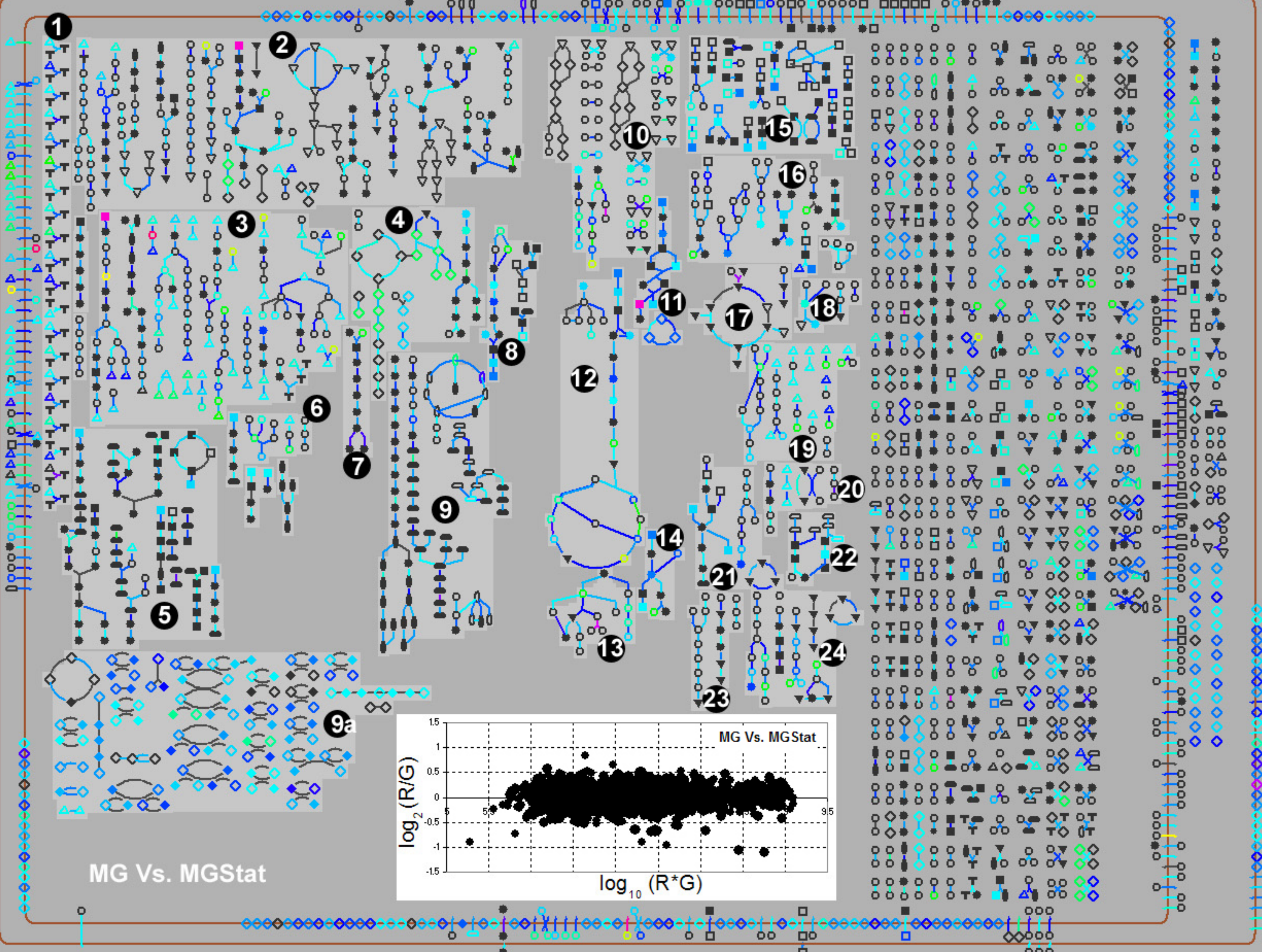Legend (top right):
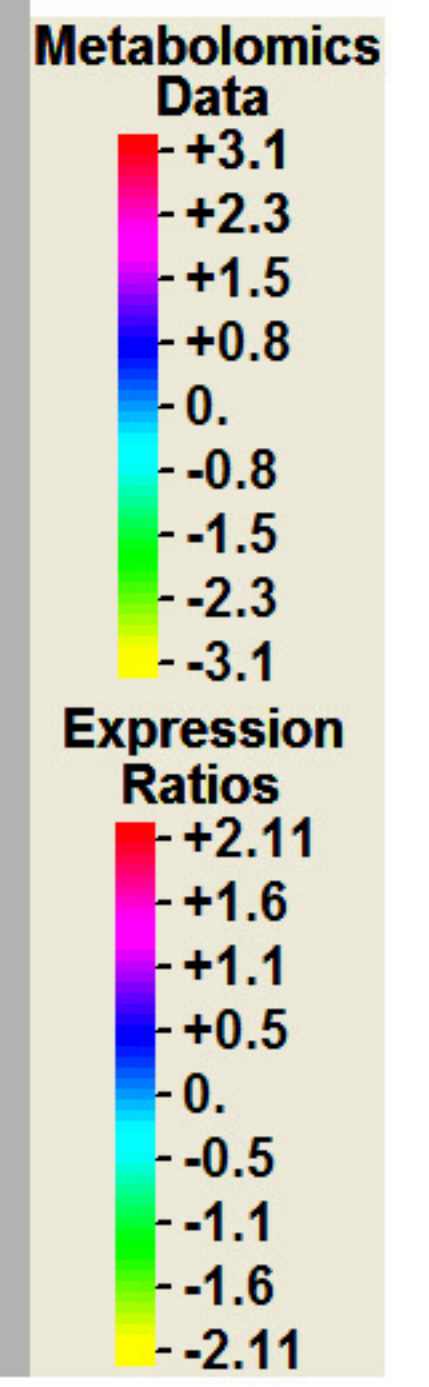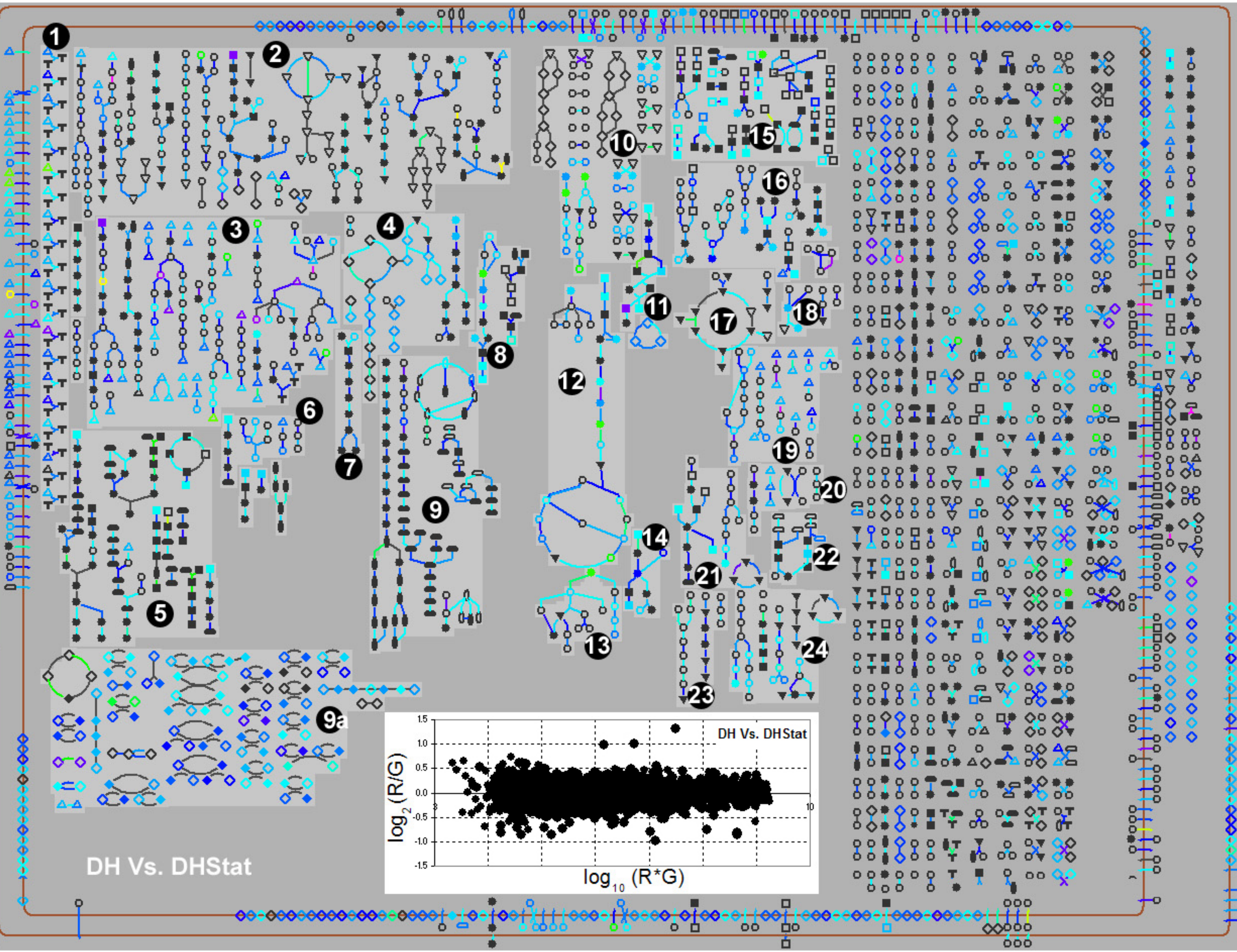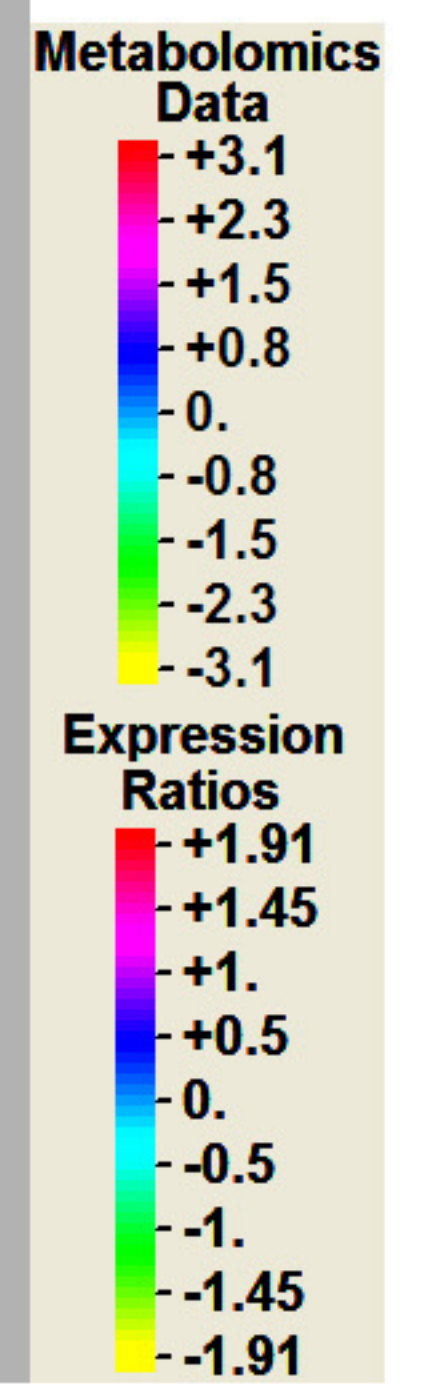- △ Amino Acids
- ☐ Carbohydrates
- ◇ Proteins
- ⬭ Purines
- ⬭ Pyrimidines
- ▽ Cofactors
- ⊤ tRNAs
- ○ Other
- ● (Filled) Phosphorylated

Metabolomics Data
+3.1
+2.3
+1.5
+0.8
0.
-0.8
-1.5
-2.3
-3.1

Expression Ratios
+2.11
+1.6
+1.1
+0.5
0.
-0.5
-1.1
-1.6
-2.11

MG Vs. MGStat

$\log_2 (R/G)$ vs $\log_{10} (R*G)$

Expression Ratios (lower panel)
+1.91
+1.45
+1.
+0.5
0.
-0.5
-1.
-1.45
-1.91

DH Vs. DHStat

$\log_2 (R/G)$ vs $\log_{10} (R*G)$

Additional data file 10

Integration of transcriptome and metabolome data during the comparison of ancestral and evolved strains in prolonged stationary phase evolution (MG/MGStat and DH/DHStat). Metabolic overview for *E. coli* illustrating the results of high-throughput transcriptome and metabolome experiments in a global metabolic pathway context generated by Pathway Tools. Gene expression levels are mapped to reaction steps involved in a metabolism, and the range of data values levels in a given experimental dataset is mapped to a spectrum of colours according to the $\log_2$ ratio scale on the lower right inset. Similarly, for metabolomics data, compound nodes are coloured according to the data value for the corresponding compound. The inner inset shows the ratio-intensity plot of the gene expression data displaying the $\log_2(Ri/Gi)$ ratio for each element on the array as a function of the $\log_{10}(Ri*Gi)$ product intensities. (1- Biosynthesis - Aminoacyl-tRNAs, 2- Biosynthesis - Cofactors, prosthetic group and electron carriers, 3- Biosynthesis - Amino acids, 4- Biosynthesis - Fattyacids and lipids, 5- Biosynthesis - Cell structure, 6- Biosynthesis - Amines and polyamines, 7- Biosynthesis - Secondary metabolites, 8- Biosynthesis - Sugars and polysaccharides, 9- Biosynthesis - Nucleosides and nucleotides, 9a- Biosynthesis -Signal transduction pathways, 10- Respiration, 11- Pentose phosphate pathway, 12- Glycolysis, 13- Fermentation, 14- Superpathway of glycolysis and Entner-Doudoroff, 15- Degradation - Sugars and polysaccharides, 16- Degradation - Sugar derivatives, 17- Degradation - Fattyacids and lipids, 18- Degradation - Alcohols, 19- Degradation - Amino acids, 20- Degradation - Inorganic nutrients, 21- Degradation - Amines and polyamines, 22- Degradation - Nucleosides and nucleotides, 23- Degradation - Aromatic compounds, 24- Degradation - Carboxylates.)