Differential expression analysis

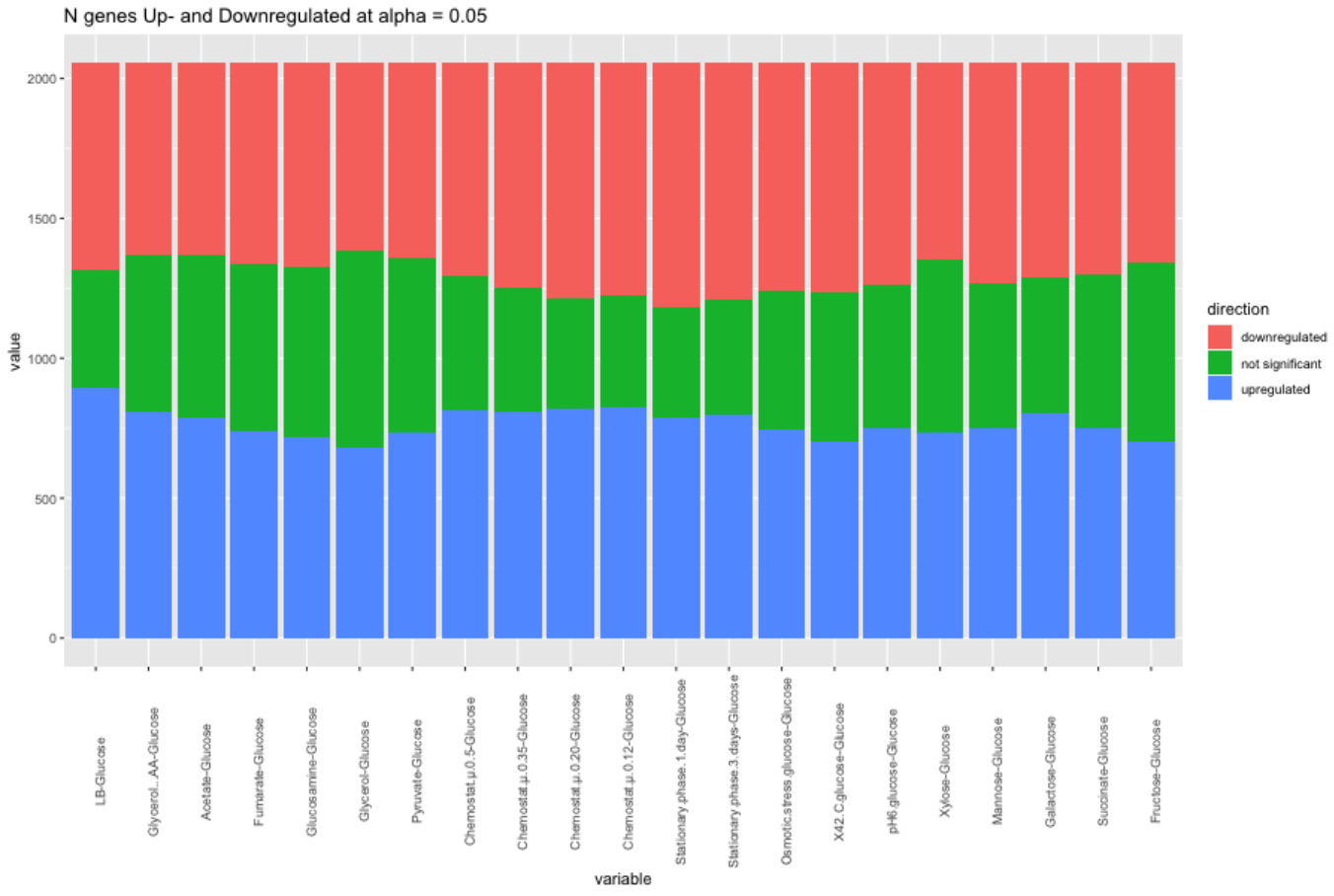
Data

The data used in this notebook comes from the supplementary material of this paper: blabla It is resampled from counts that represent means and standard deviations.

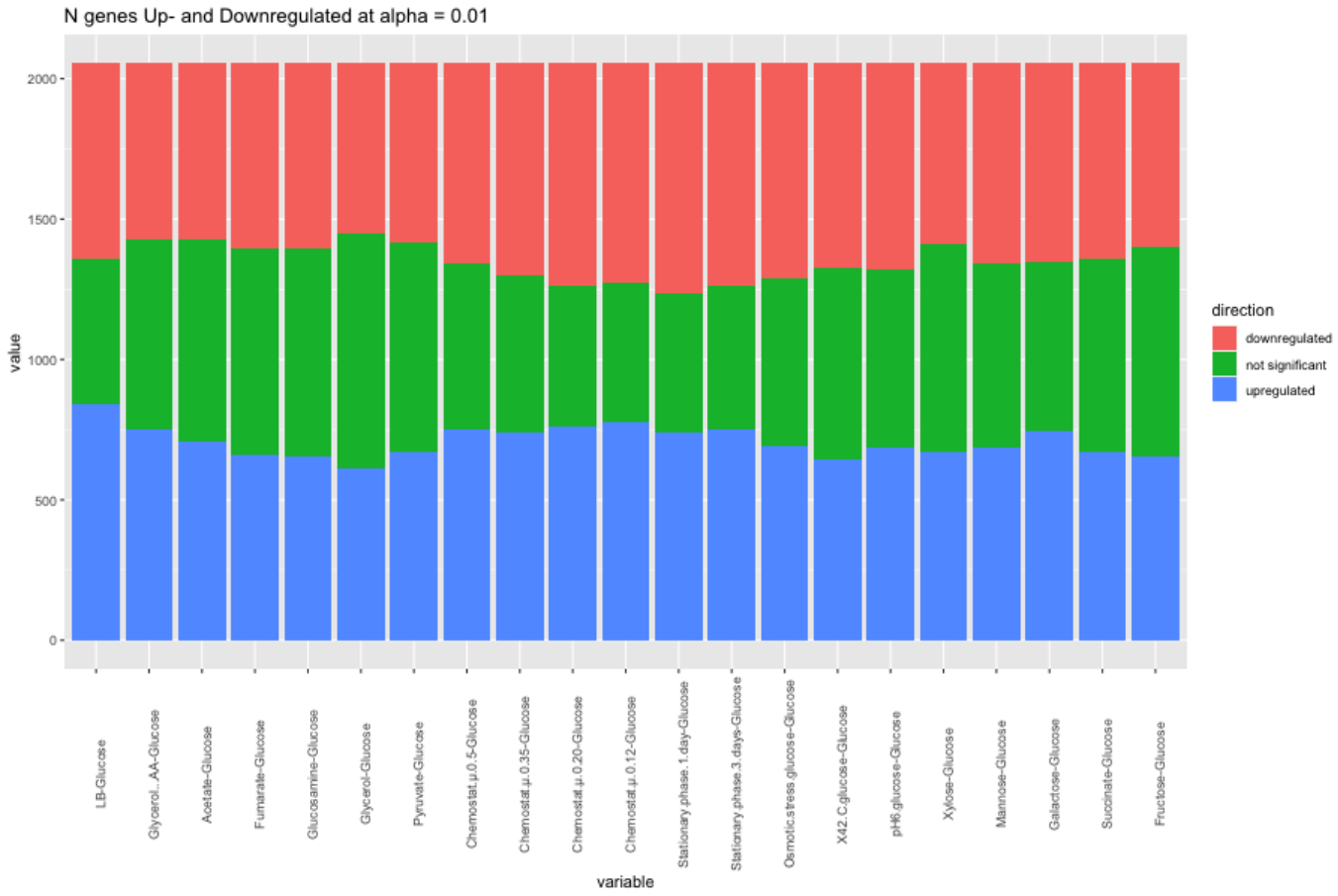
Why EdgeR?

- Uses count data
- Normalization suited for count data, no between probe normalization as for

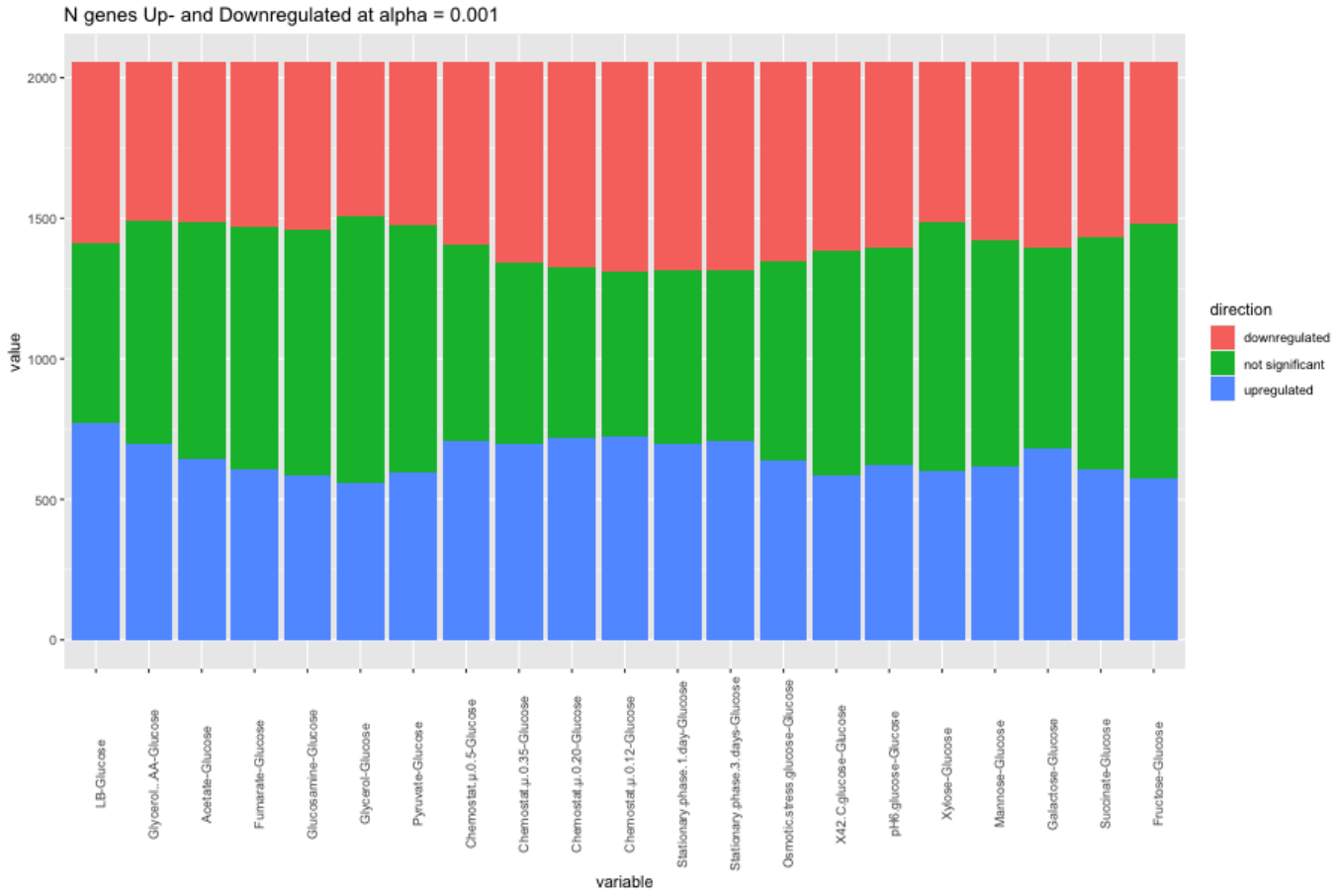
Results



Number of up- and downregulated genes decided by fishers combined method with an alpha cutoff of 0.05



Number of up- and downregulated genes decided by fishers combined method with an alpha cutoff of 0.01



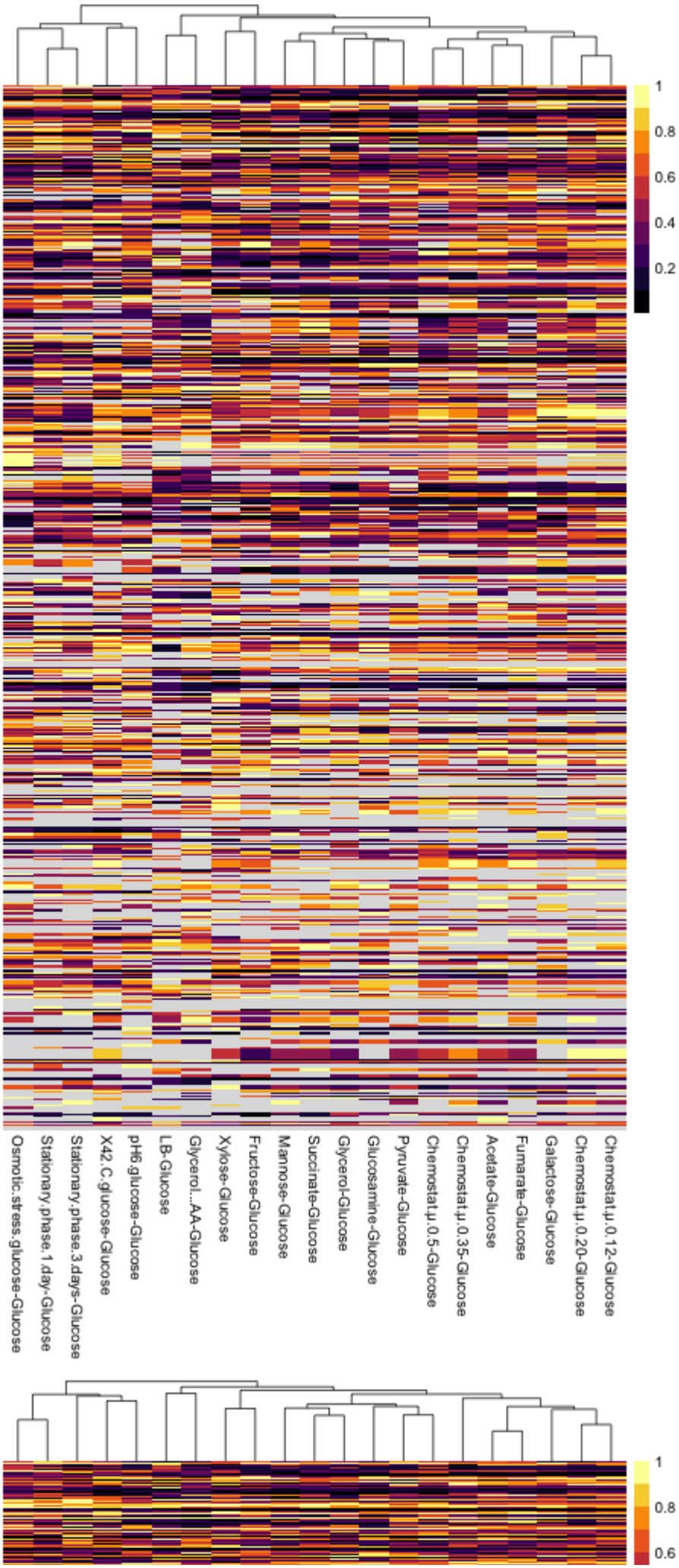
Number of up- and downregulated genes decided by fishers combined method with an alpha cutoff of 0.001

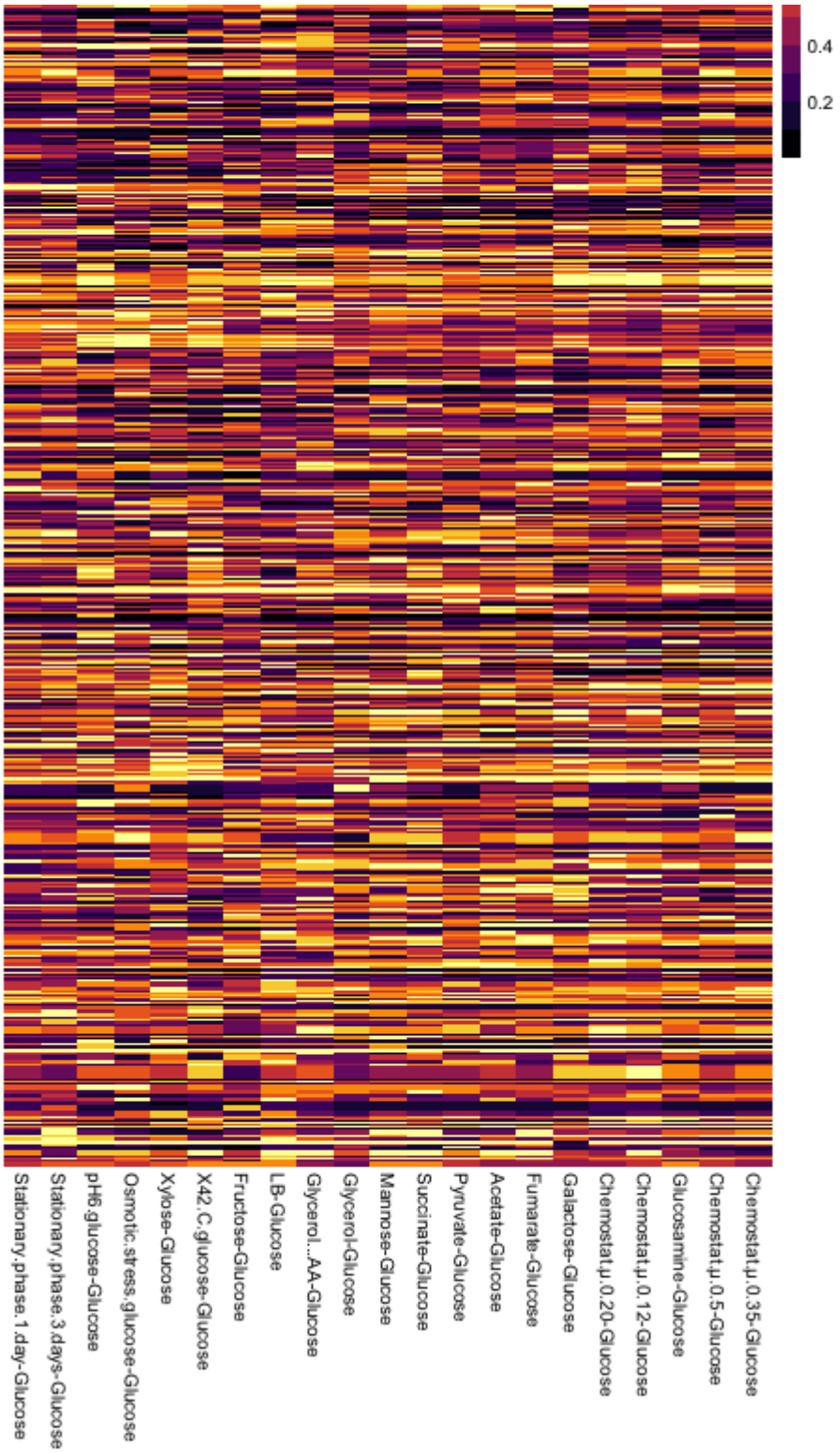
Go term analysis with piano

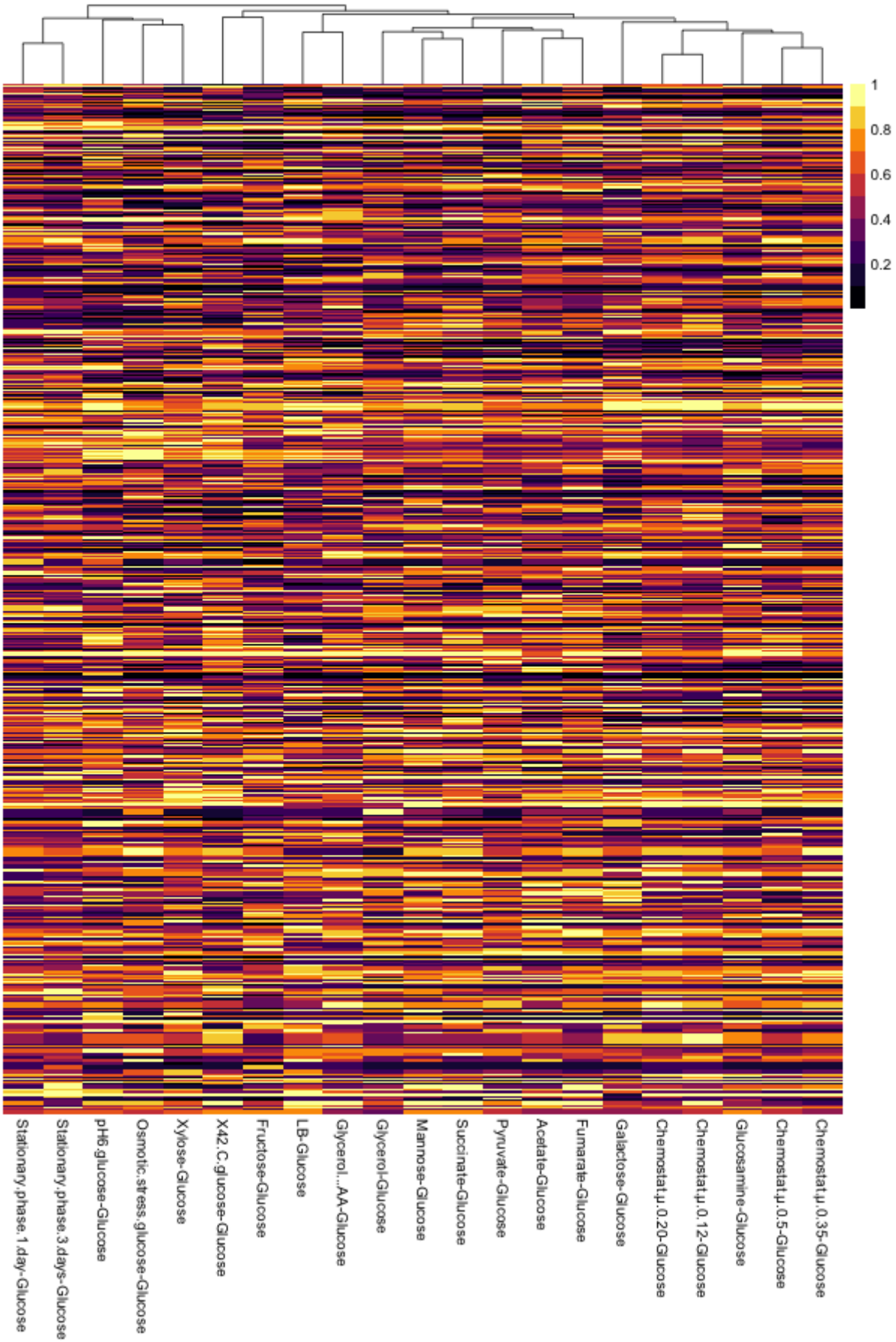
Why the given parameters?

- fishers combined test: includes the

Results


1
0.8
0.6
0.4
0.2
Chemostat.μ.0.12-Glucose
Chemostat.μ.0.20-Glucose
Galactose-Glucose
Fumarate-Glucose
Acetate-Glucose
Chemostat.μ.0.35-Glucose
Chemostat.μ.0.5-Glucose
Pyruvate-Glucose
Glucosamine-Glucose
Glycerol-Glucose
Succinate-Glucose
Mannose-Glucose
Fructose-Glucose
Xylose-Glucose
Glycerol...AA-Glucose
LB-Glucose
pH6.glucose-Glucose
X42.C.glucose-Glucose
Stationary.phase.3.days-Glucose
Stationary.phase.1.day-Glucose
Osmotic.stress.glucose-Glucose
1
0.8
0.6


0.4
0.2
Chemostat.μ.0.35-Glucose
Chemostat.μ.0.5-Glucose
Glucosamine-Glucose
Chemostat.μ.0.12-Glucose
Chemostat.μ.0.20-Glucose
Galactose-Glucose
Fumarate-Glucose
Acetate-Glucose
Pyruvate-Glucose
Succinate-Glucose
Mannose-Glucose
Glycerol-Glucose
Glycerol...AA-Glucose
LB-Glucose
Fructose-Glucose
X42.C.glucose-Glucose
Xylose-Glucose
Osmotic.stress.glucose-Glucose
pH6.glucose-Glucose
Stationary.phase.3.days-Glucose
Stationary.phase.1.day-Glucose



Go term analysis with Goatools