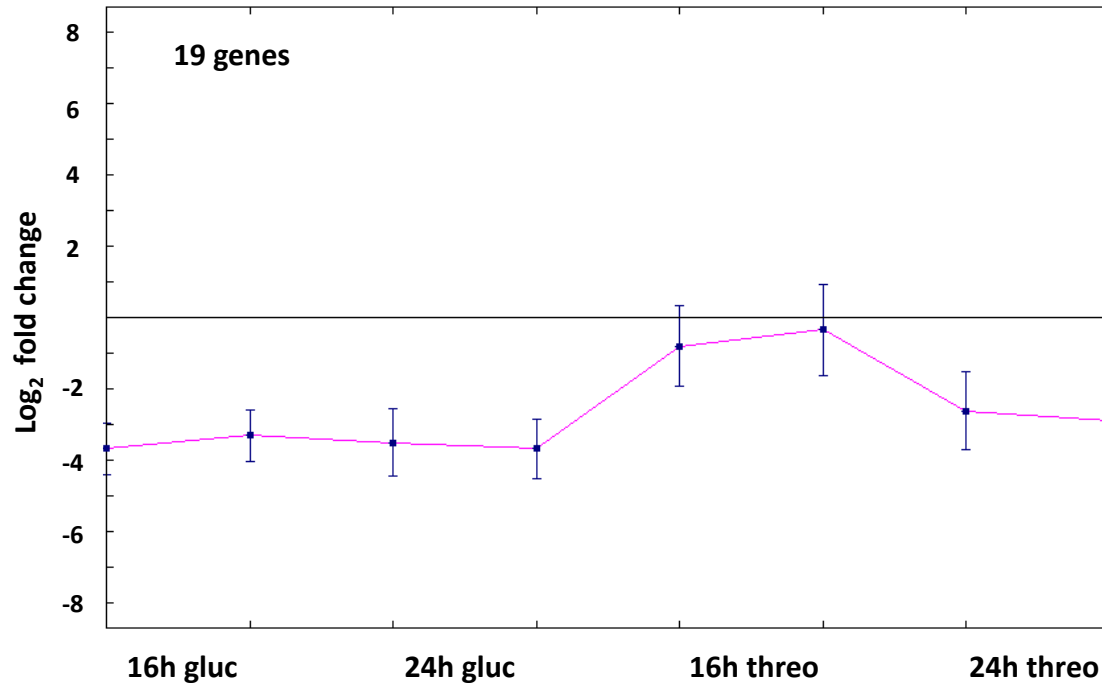
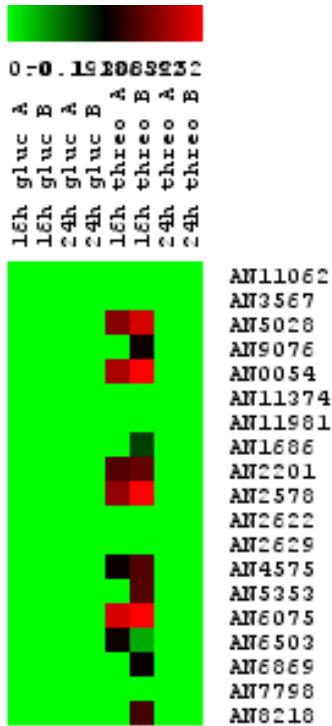


Supplementary Figure 1 – The heat map and centroid plot of the ten hierarchal clusters of genes identified as being differentially expressed ($p < 0.001$) in the *alcA::ypkA* strain under repression (G1-10) and overexpression (T1-10) conditions when compared to the wild-type strain.

Cluster G1



Cluster G2

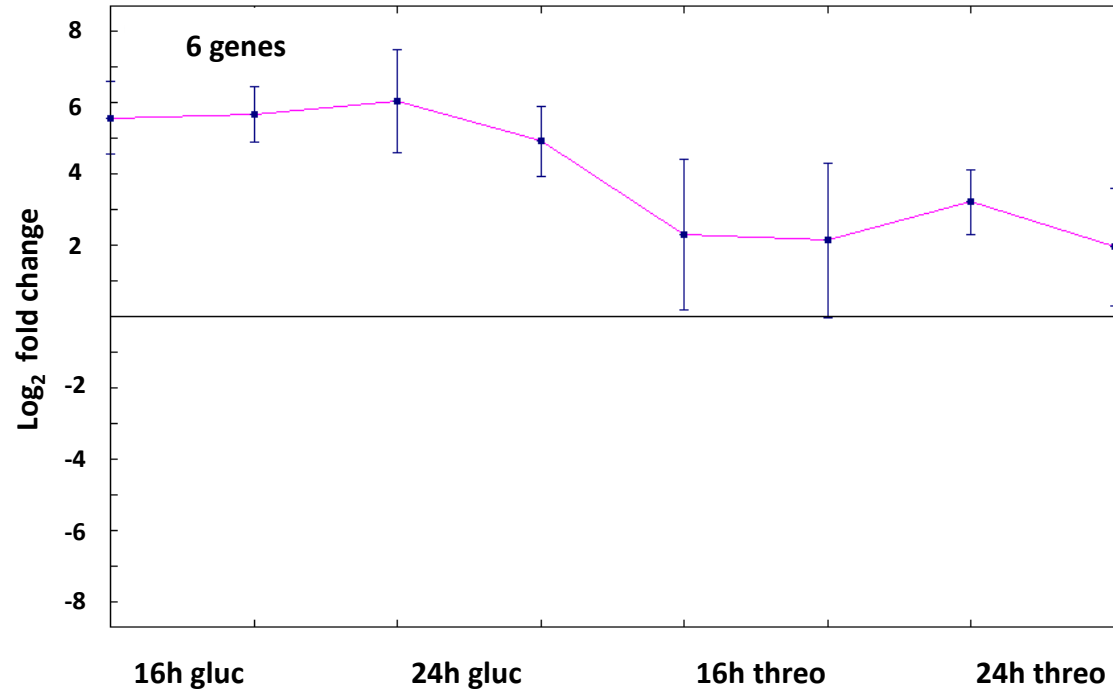


0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1.0

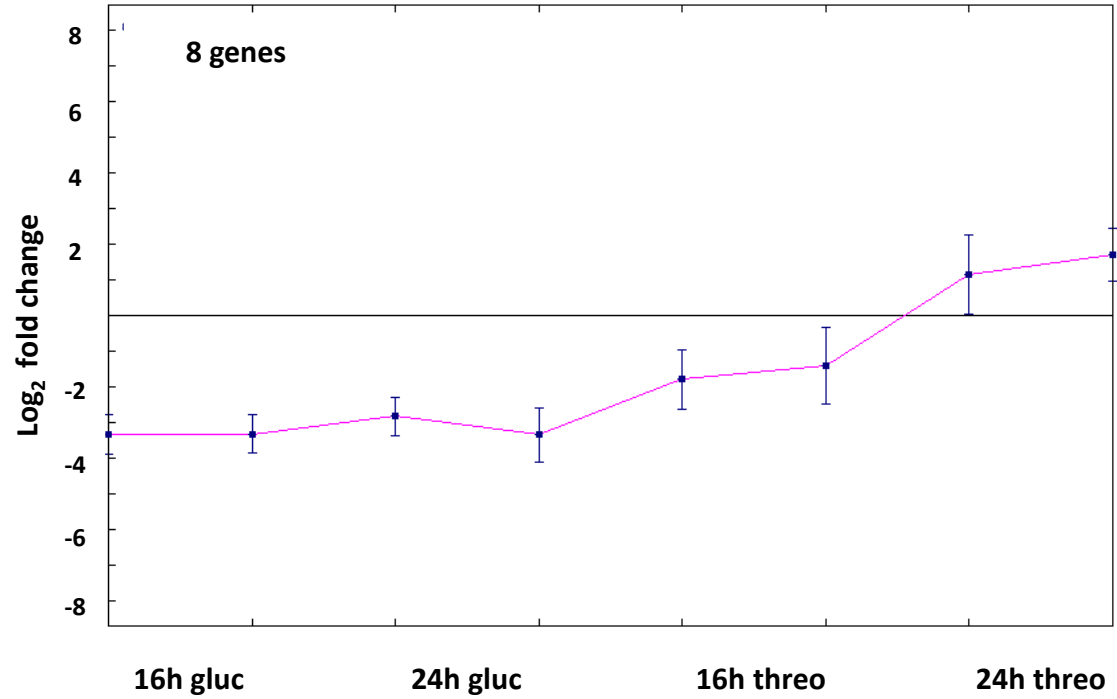
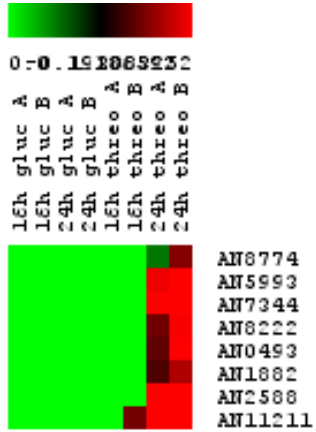
16h gluc A
16h gluc B
24h gluc A
24h gluc B
16h threo A
16h threo B
24h threo A
24h threo B



AN11151
AN3781
AN11152
AN2037
AN5018
AN5465



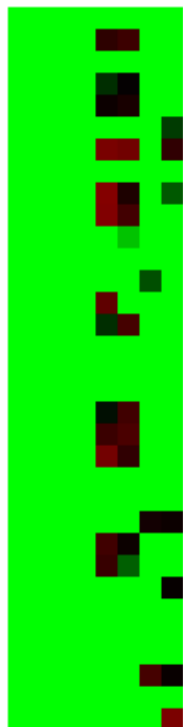
Cluster G3



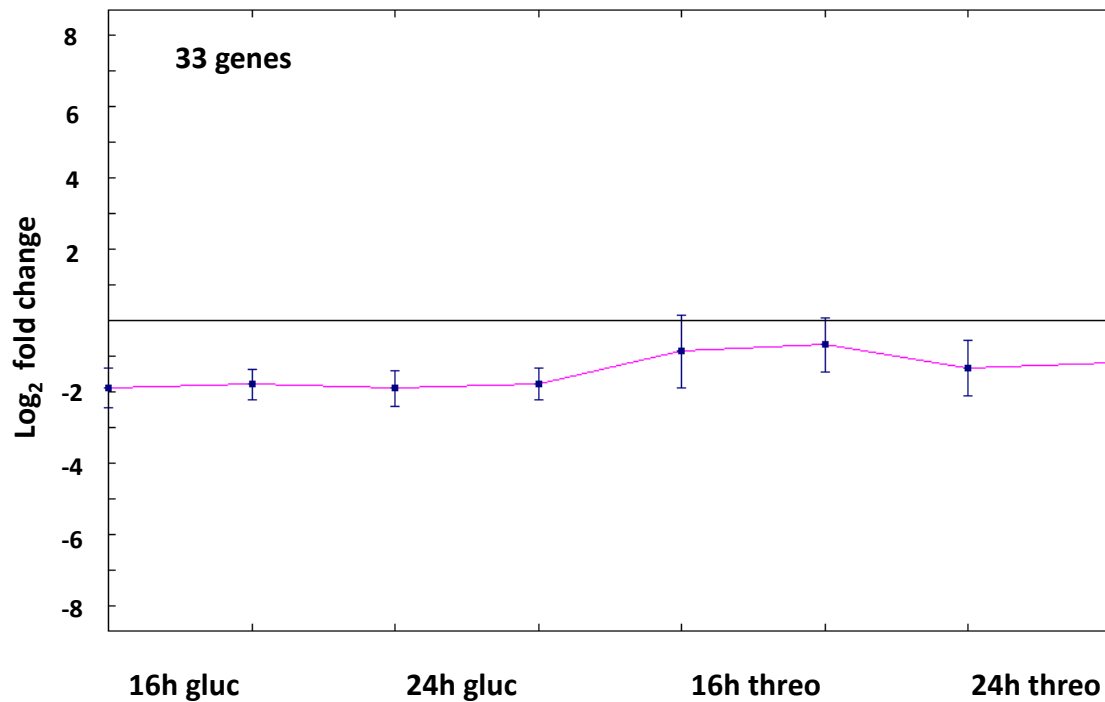
Cluster G4



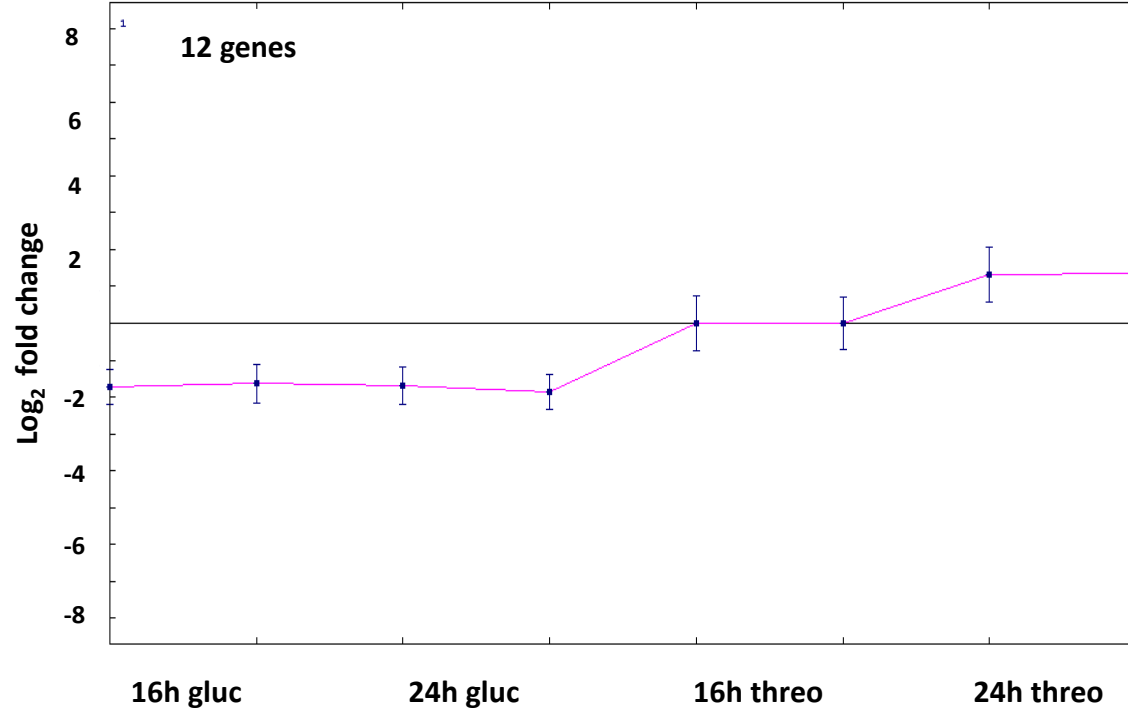
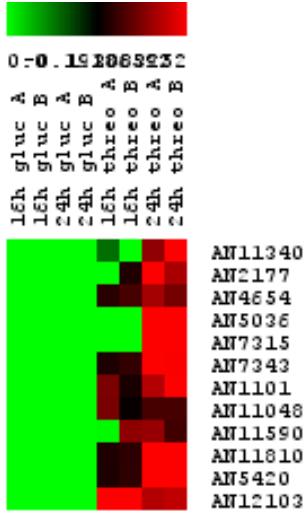
0 1
 16h gluc A B
 16h gluc A B
 24h gluc A B
 16h threo A B
 16h threo A B
 24h threo A B



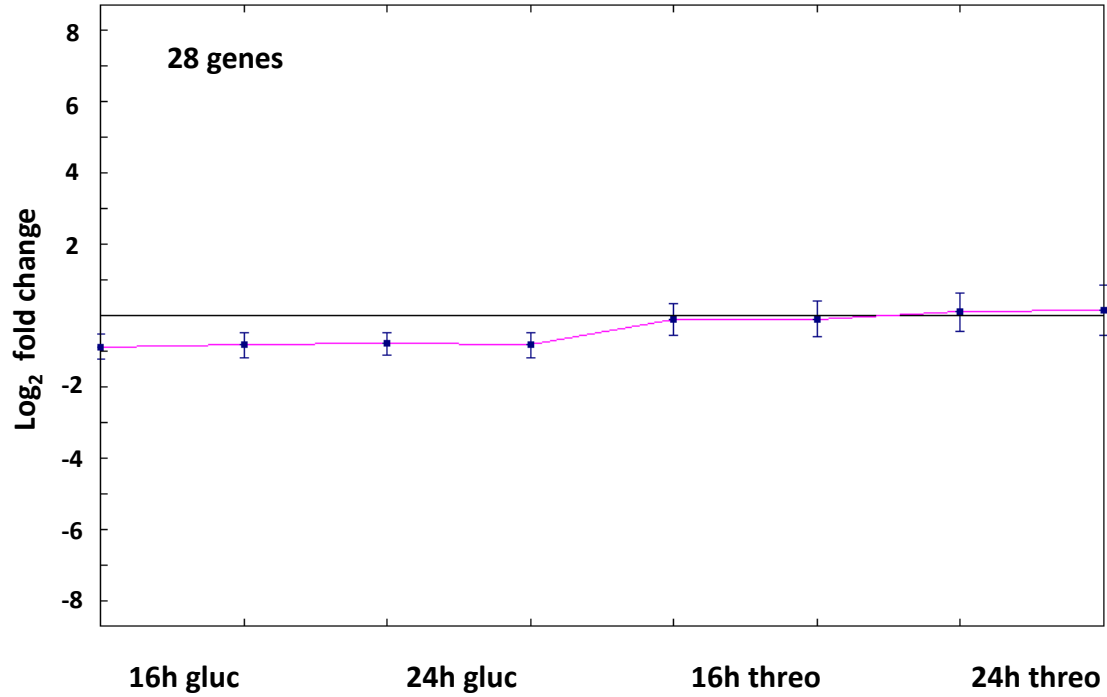
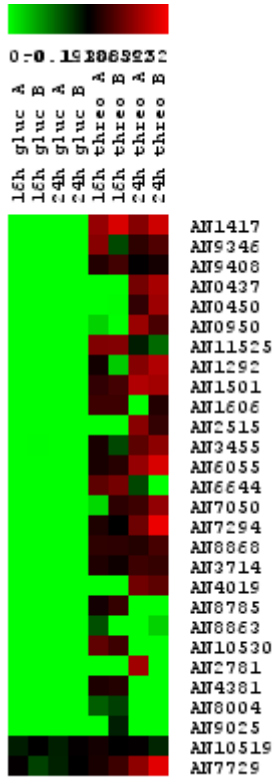
AN6586
 AN8461
 AN2860
 AN3053
 AN6172
 AN7320
 AN7596
 AN10790
 AN10935
 AN11149
 AN1725
 AN2390
 AN3641
 AN4642
 AN5033
 AN5274
 AN6438
 AN6770
 AN7416
 AN7594
 AN8361
 AN8781
 AN12199
 AN1619
 AN3246
 AN5252
 AN6135
 AN6327
 AN6642
 AN7181
 AN7389
 AN3130
 AN5763



Cluster G5



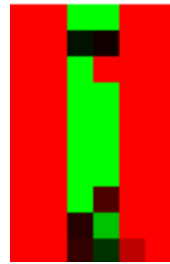
Cluster G6



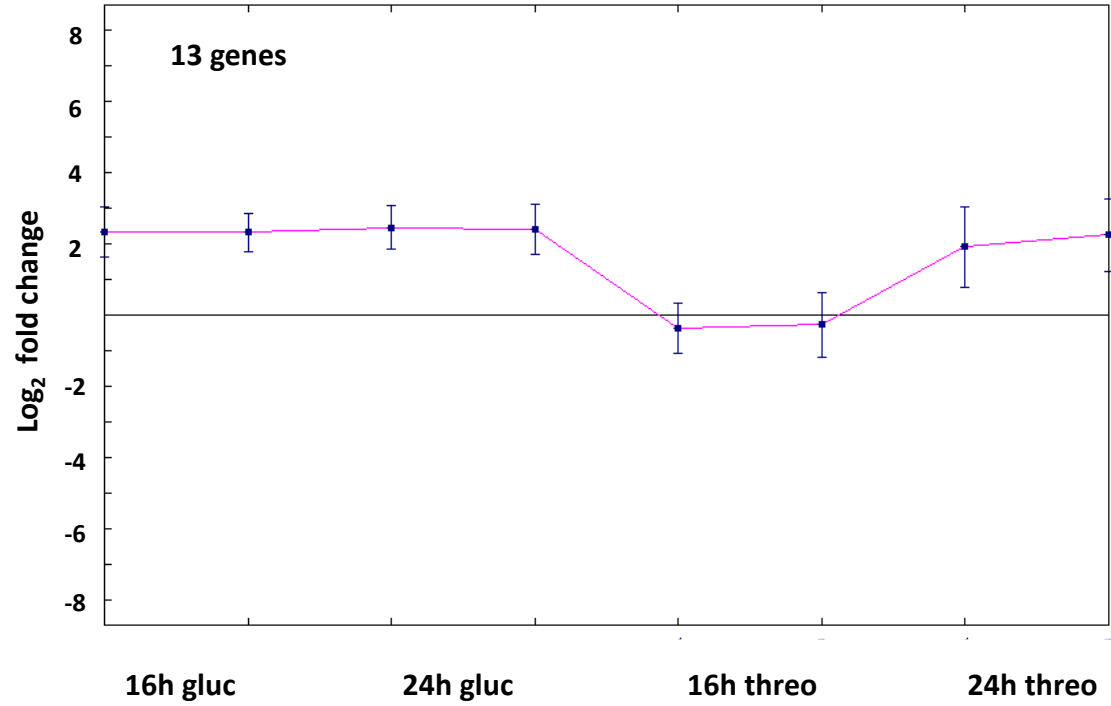
Cluster G8



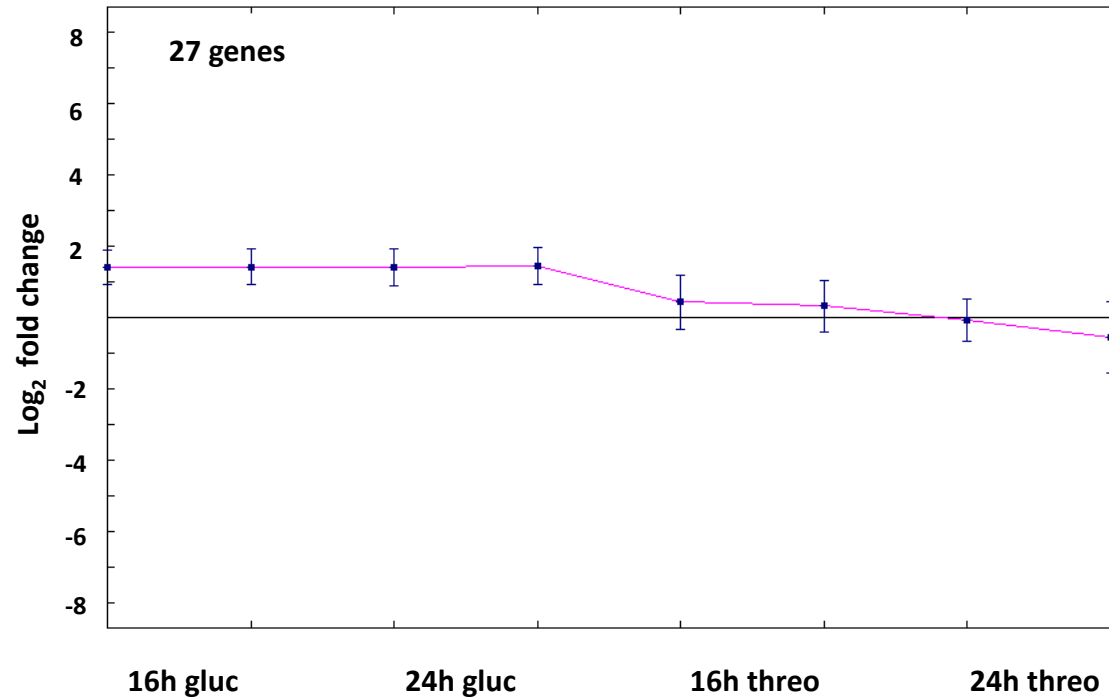
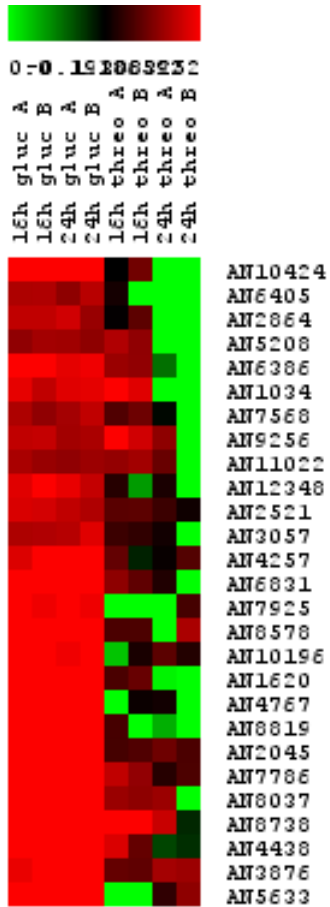
16h gluc A
16h gluc B
24h gluc A
24h gluc B
16h threo A
16h threo B
24h threo A
24h threo B



AN3979
AN1857
AN1858
AN3356
AN5120
AN6669
AN6669
AN6801
AN7374
AN8512



Cluster G9

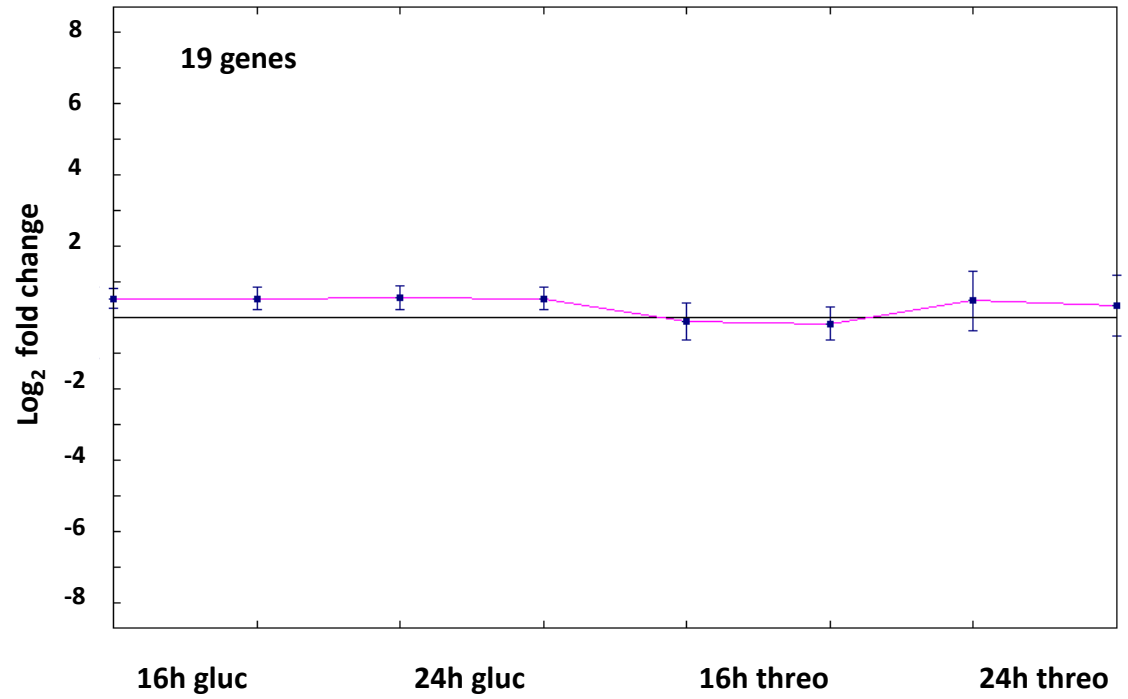
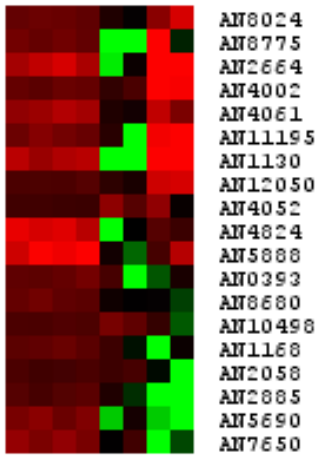


Cluster G10



0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

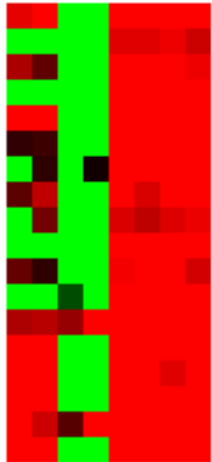
16h gluc A
16h gluc B
24h gluc A
24h gluc B
16h threo A
16h threo B
24h threo A
24h threo B



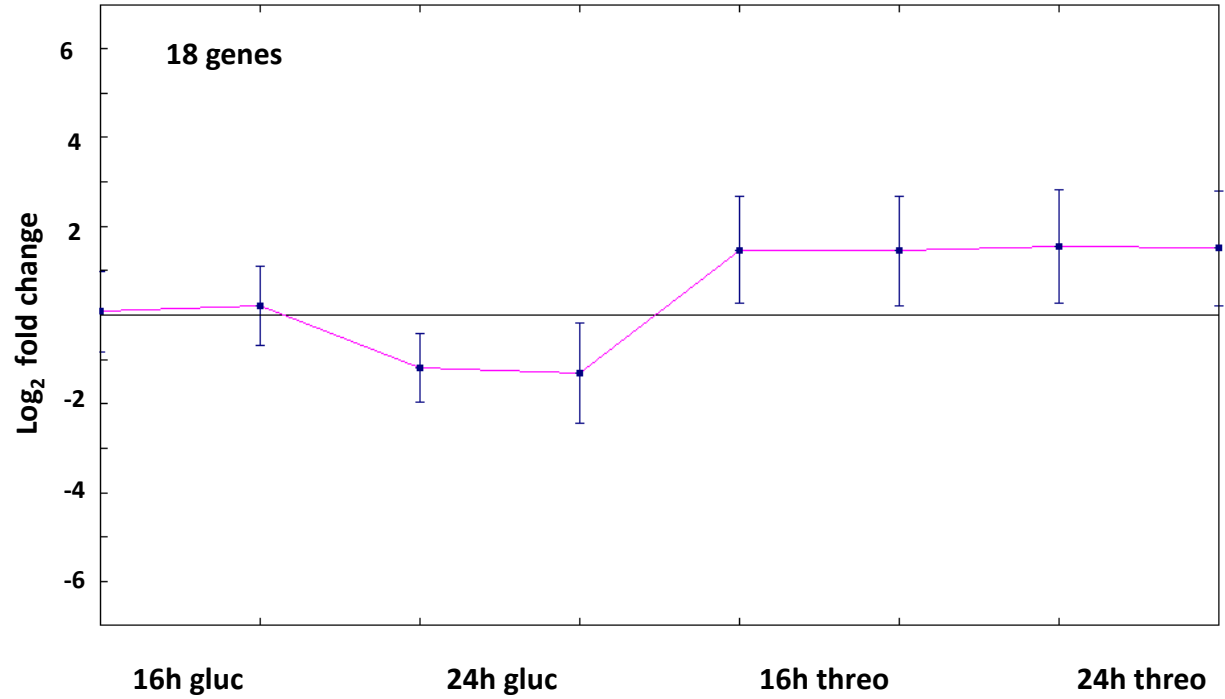
Cluster T1



0 -1 0 DOWN 359 3
 16h gluc A
 16h gluc B
 24h gluc A
 24h gluc B
 16h threo A
 16h threo B
 24h threo A
 24h threo B



AN11680
 AN5650
 AN70094
 AN0620
 AN10042
 AN10733
 AN10767
 AN10945
 AN11368
 AN11976
 AN1972
 AN3181
 AN3928
 AN5276
 AN6167
 AN6380
 AN8009
 AN9500

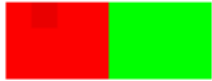


Cluster T3

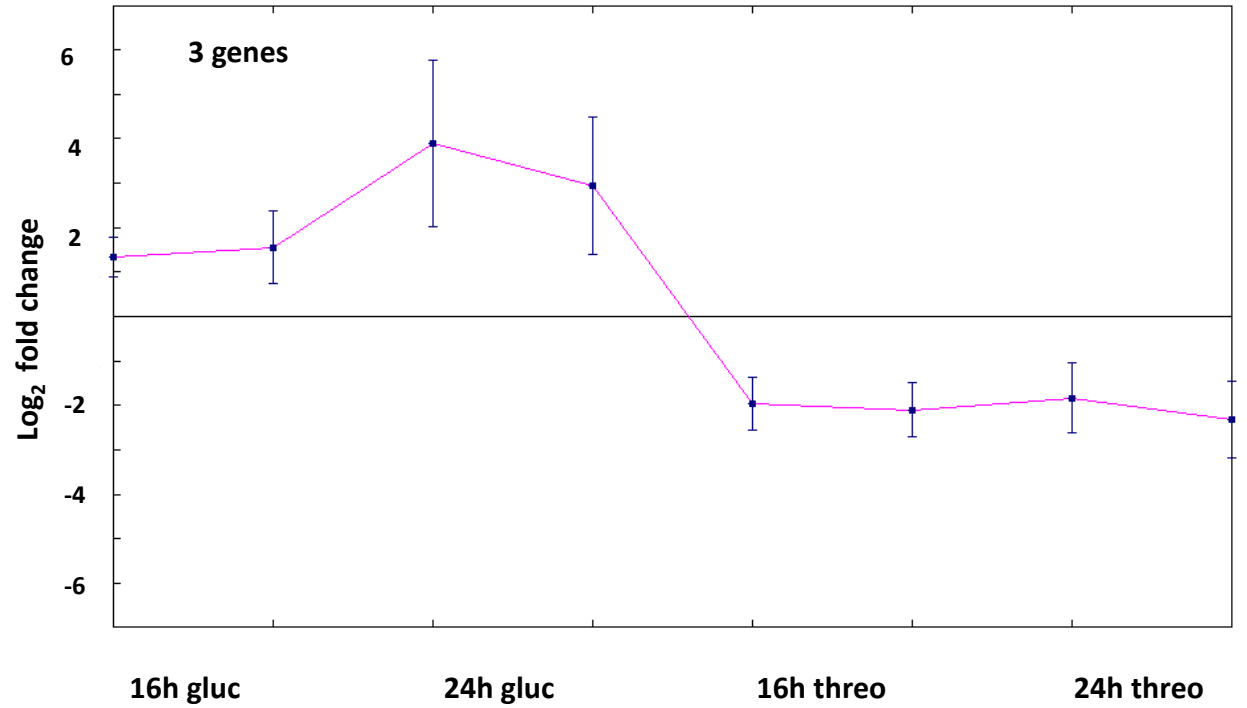


0 1 2 3 4 5 6

16h gluc A
16h gluc B
24h gluc A
24h gluc B
16h threo A
16h threo B
24h threo A
24h threo B



AN7894
AN7893
AN8149

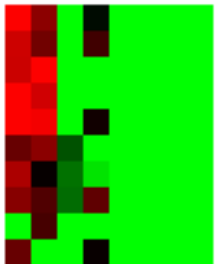


Cluster T4

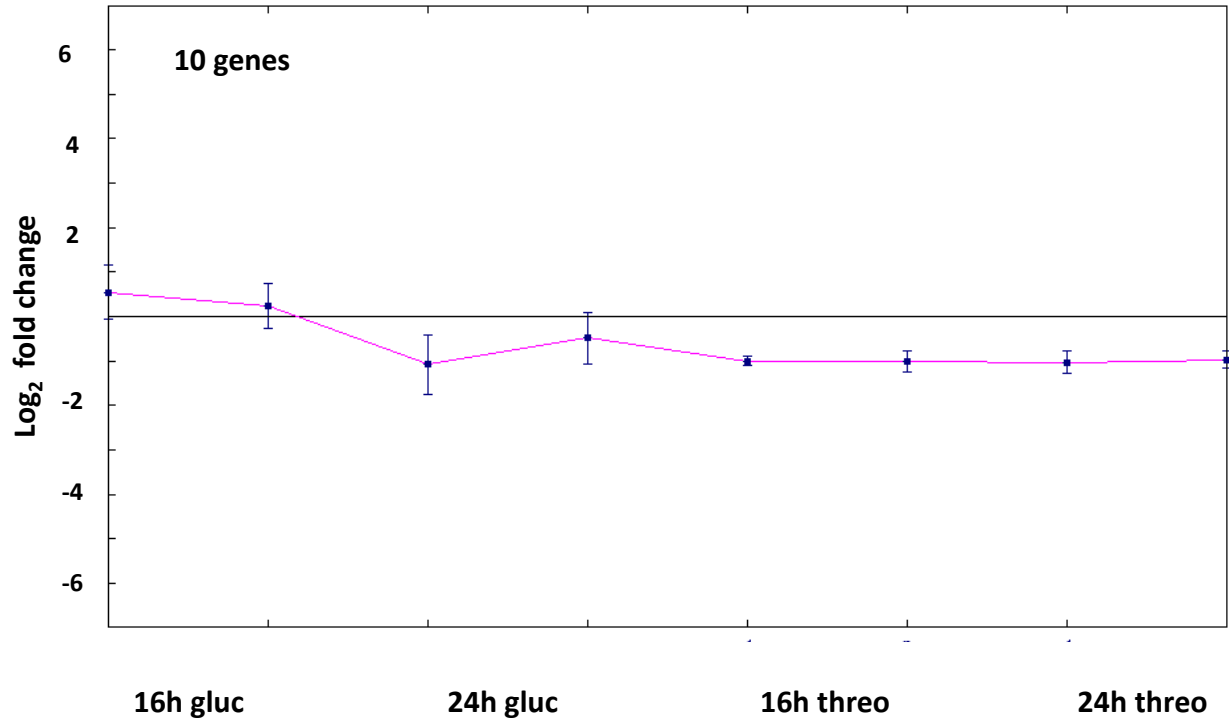


0 - 0.10000000000000000

16h gluc A
16h gluc B
24h gluc A
24h gluc B
16h threo A
16h threo B
24h threo A
24h threo B



AN2606
AN0666
AN12329
AN1852
AN6525
AN8533
AN0328
AN10898
AN4201
AN6626

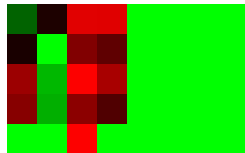


Cluster T5

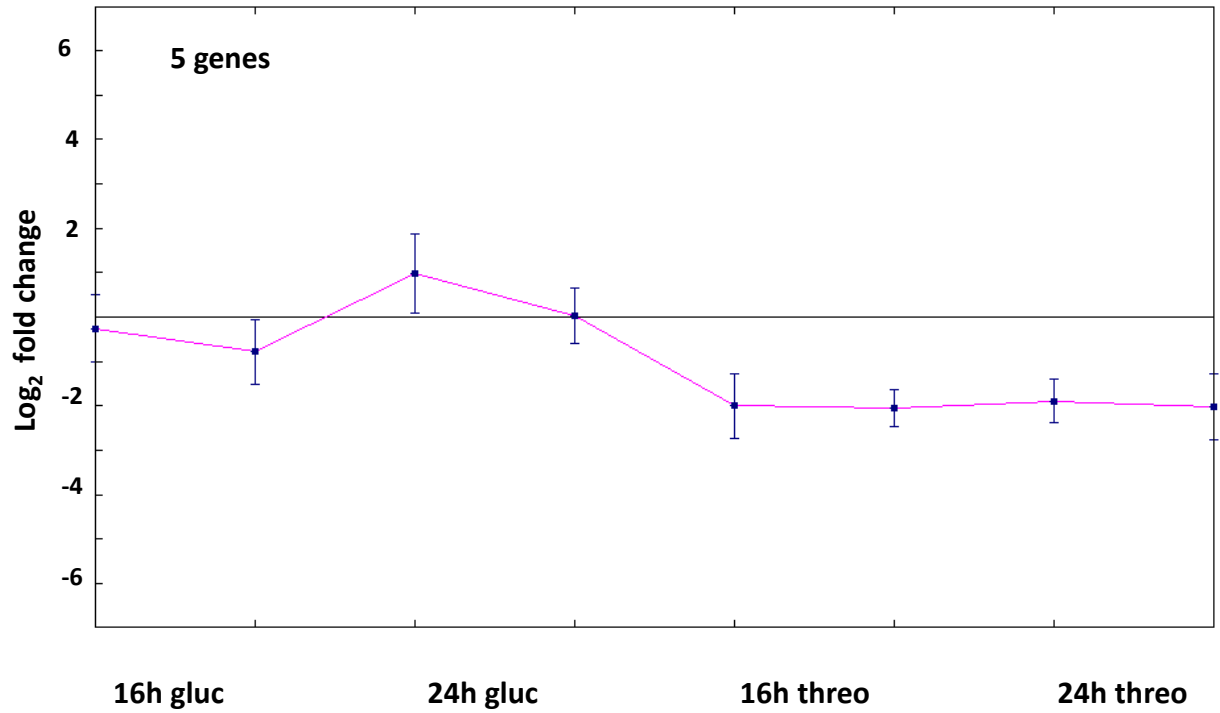


0 - 100

16h gluc A
16h gluc B
24h gluc A
24h gluc B
16h threo A
16h threo B
24h threo A
24h threo B



AT000000
AT114201
AT202000
AT370000
AT690000

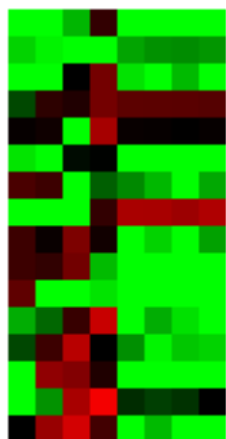


Cluster T6

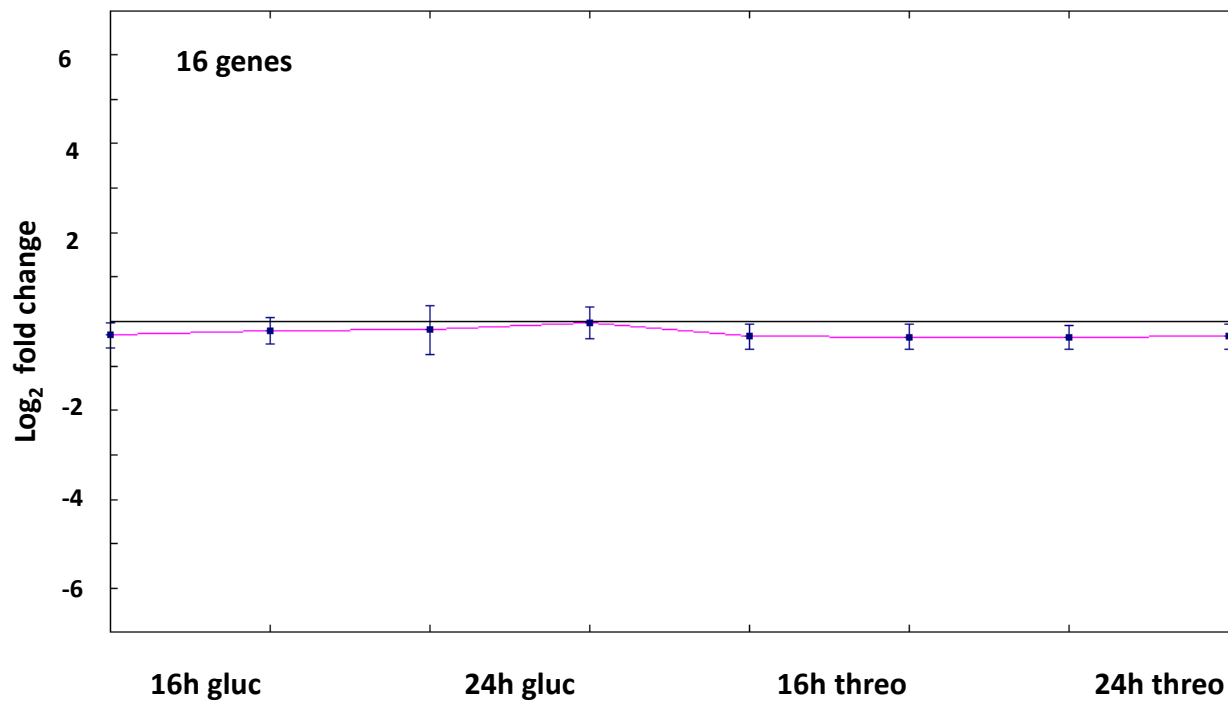


0.0 0.25 0.5 0.75 1.0

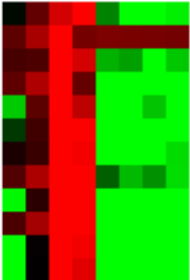
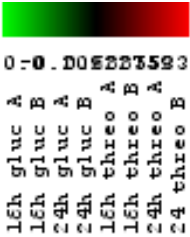
16h gluc A
16h gluc B
24h gluc A
24h gluc B
16h threo A
16h threo B
24h threo A
24h threo B



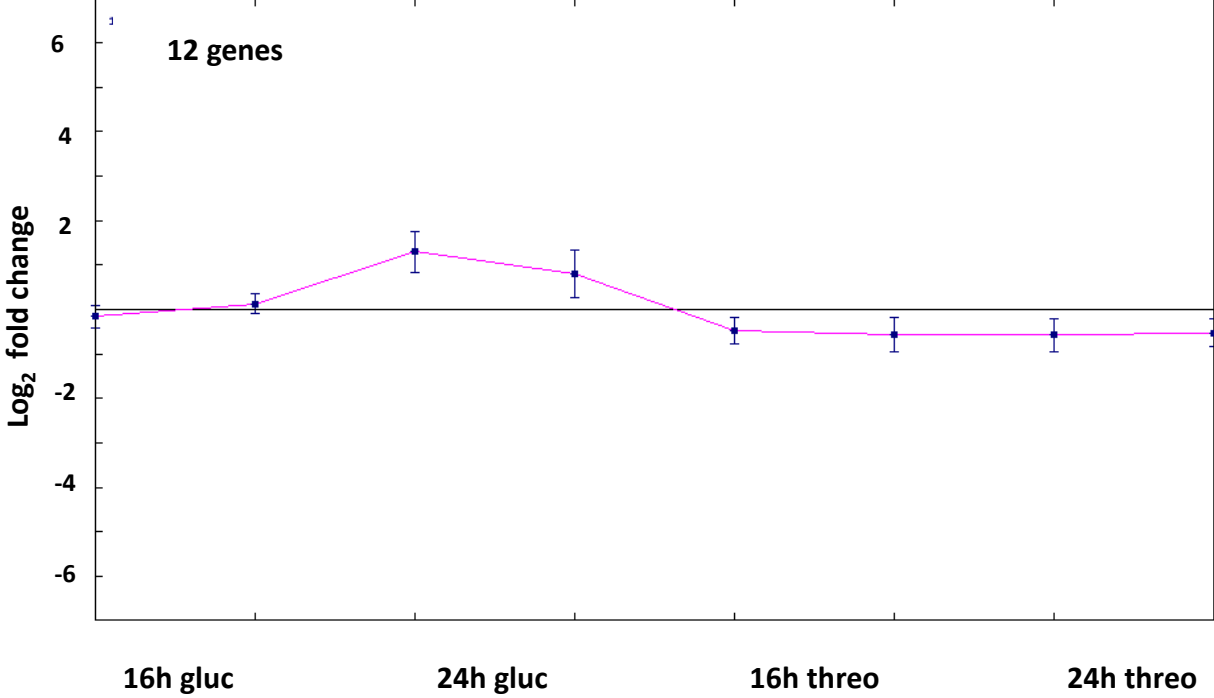
AN4069
AN1776
AN2446
AN6210
AN8698
AN1245
AN2896
AN2985
AN3375
AN4701
AN5536
AN6064
AN8580
AN9003
AN2293
AN6189



Cluster T8



- AN11137
- AN9146
- AN10451
- AN3959
- AN6171
- AN6632
- AN7007
- AN8631
- AN0465
- AN1202
- AN3827
- AN0074

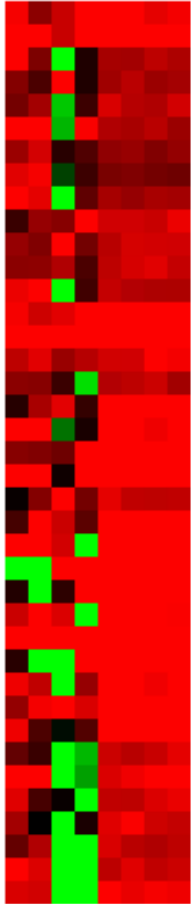


Cluster T9

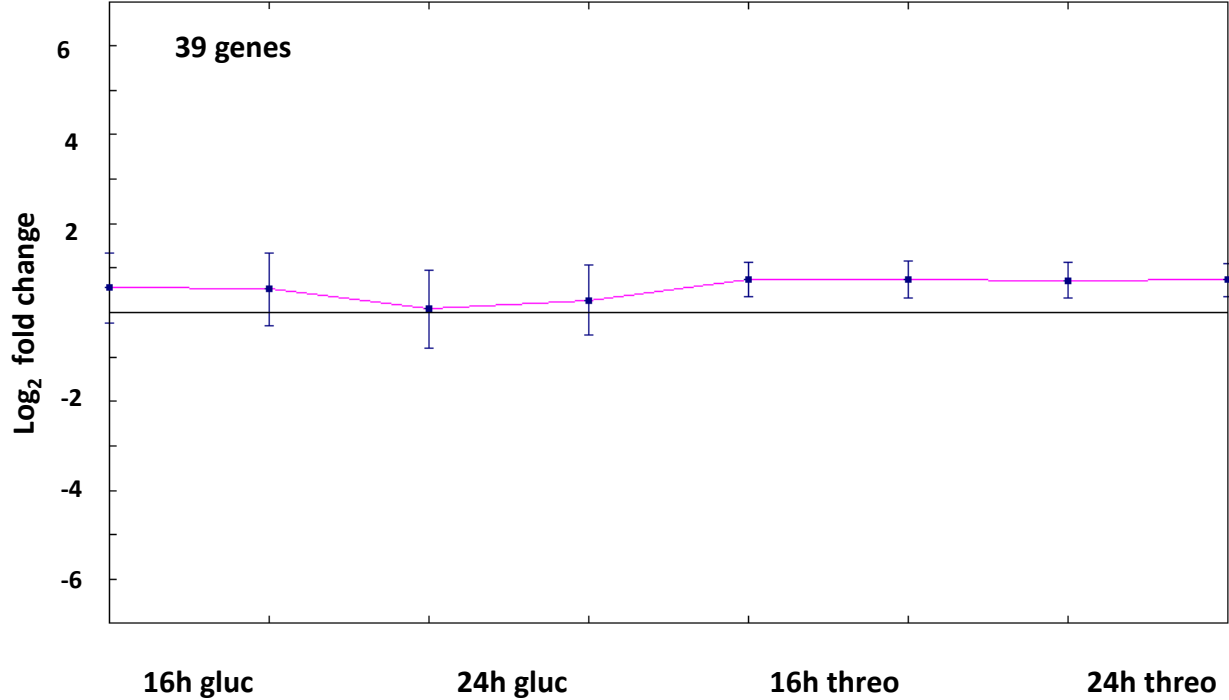


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

16h gluc A
16h gluc B
24h gluc A
24h gluc B
16h threo A
16h threo B
24h threo A
24h threo B



AN12017
AN9051
AN9221
AN10800
AN1907
AN3505
AN3805
AN3932
AN4216
AN4789
AN4970
AN5157
AN7482
AN8177
AN8608
AN8681
AN0093
AN0176
AN0273
AN1006
AN1007
AN10773
AN11196
AN11393
AN11437
AN1825
AN2200
AN4310
AN4435
AN5200
AN5266
AN6617
AN7648
AN12084
AN12241
AN6550
AN10404
AN11126
AN5107



Cluster T10

