

Pairwise DE analysis

1 hr

174 DEGs

71 upregulated in no prey

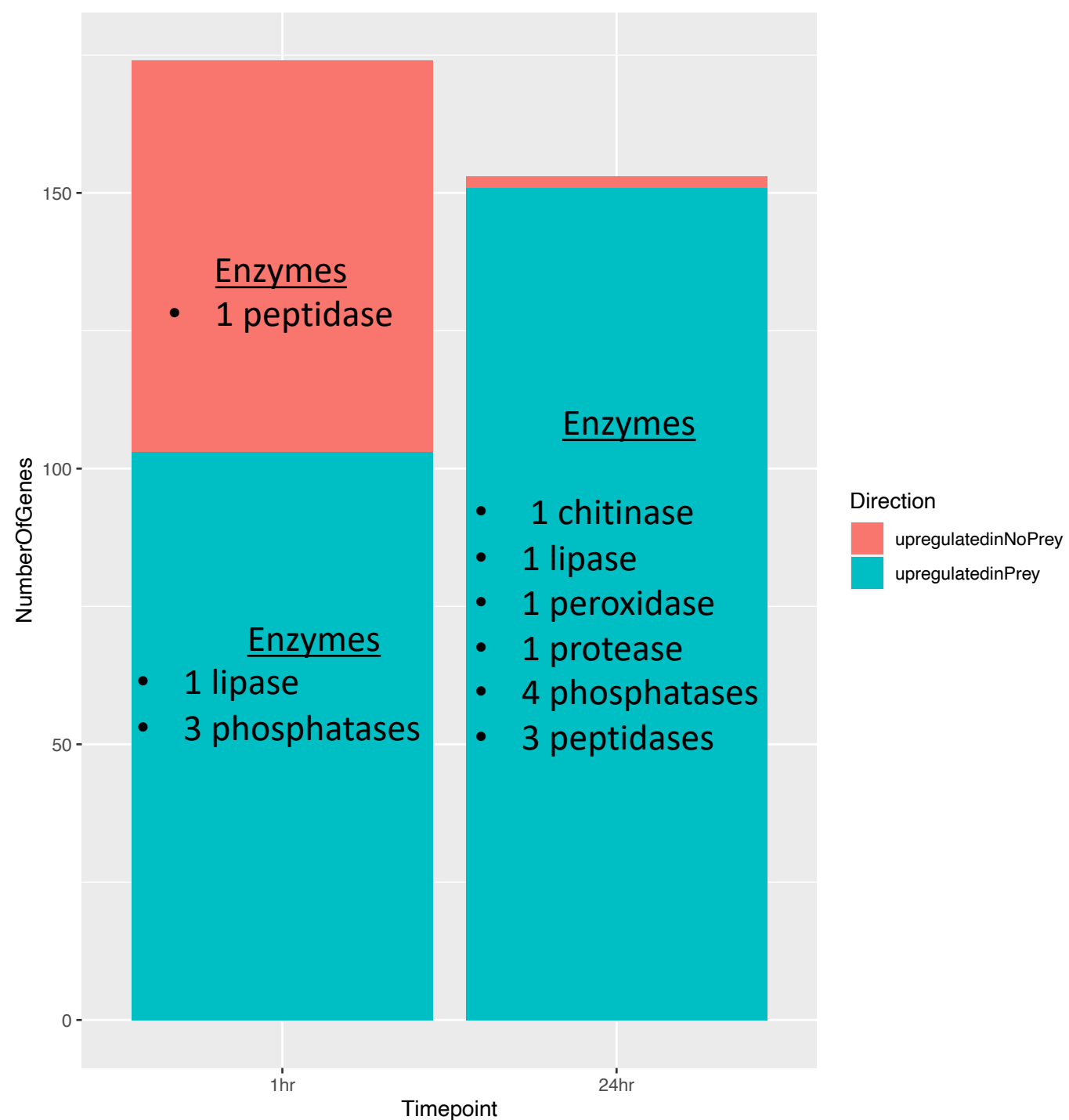
103 upregulated in prey

24 hr

151 DEGs

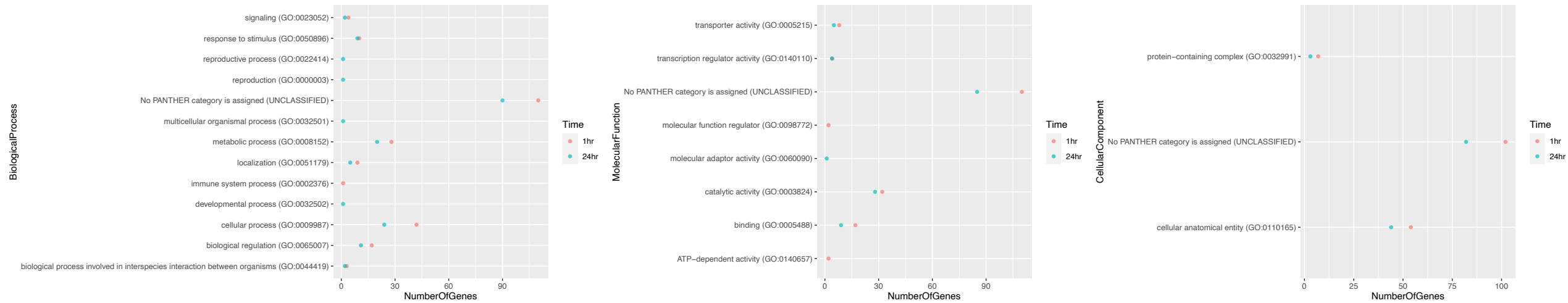
2 upregulated in no prey

149 upregulated in prey



DEG GO Term Classification

GO Term Classifications Comparison



Only in 1 hr
DEG's

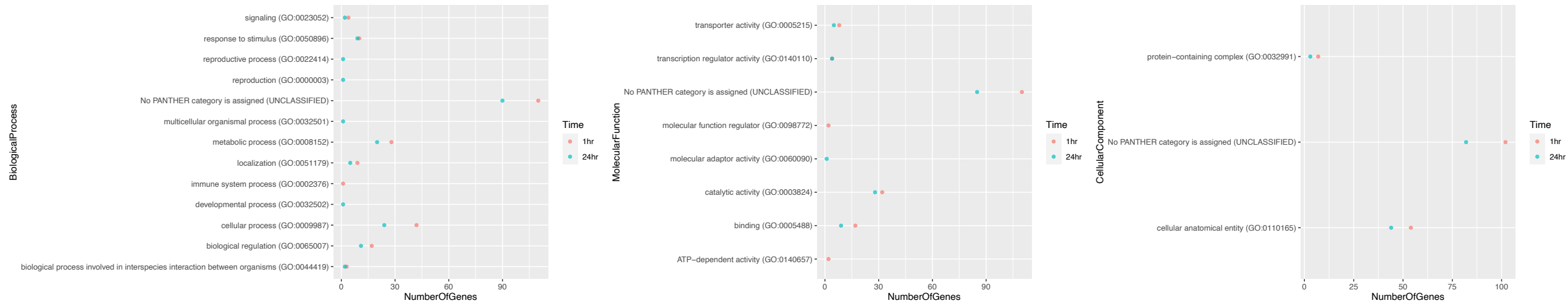
Biological Process

- Immune system process

Molecular Function

- Molecular Function Regulator
- ATP-dependent Activity

GO Term Classifications Comparison



Biological Process

Only in 24 hr
DEG's

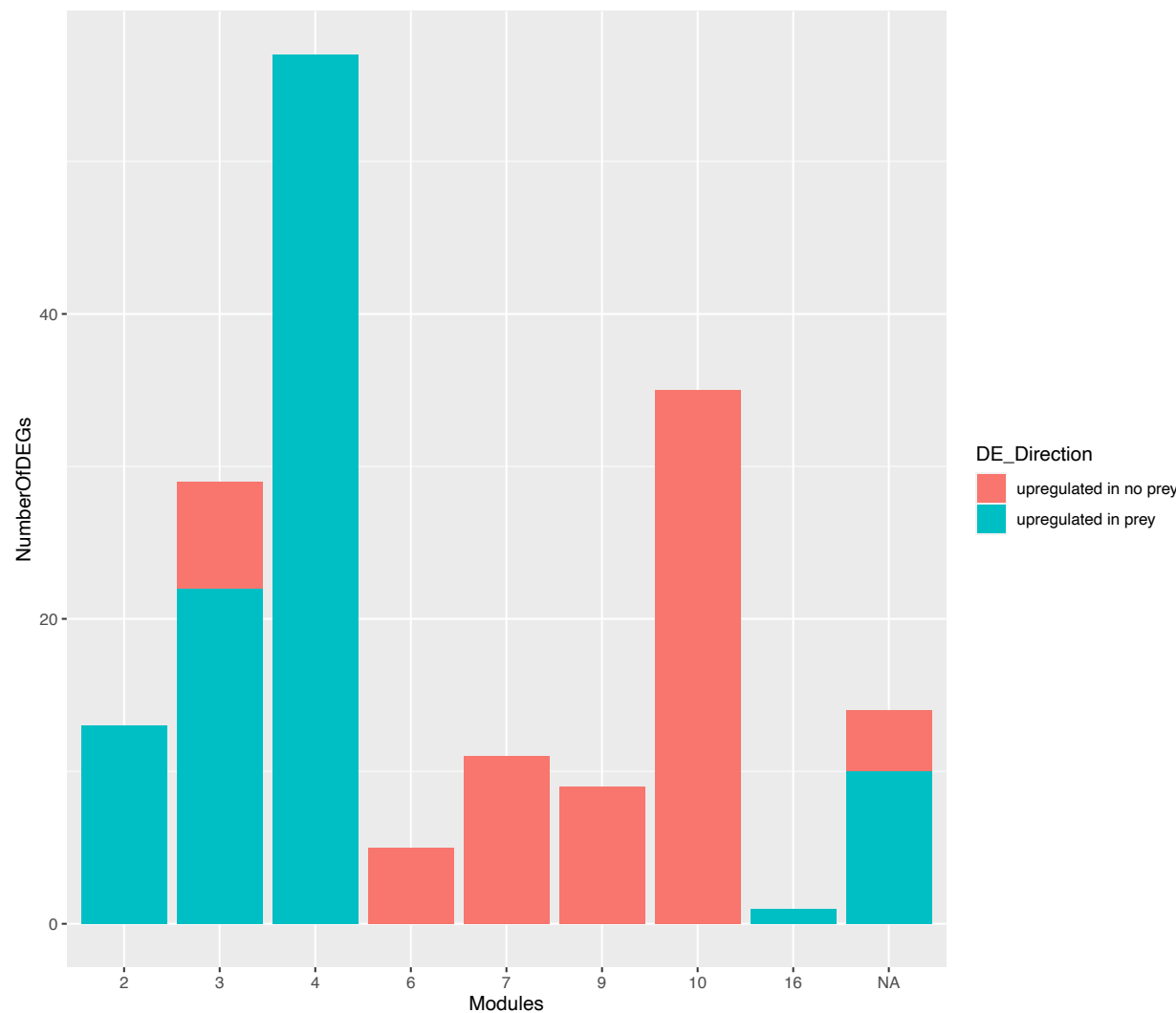
- Reproductive Process
- Reproduction
- Multicellular Organismal
- Developmental Process

Molecular Function

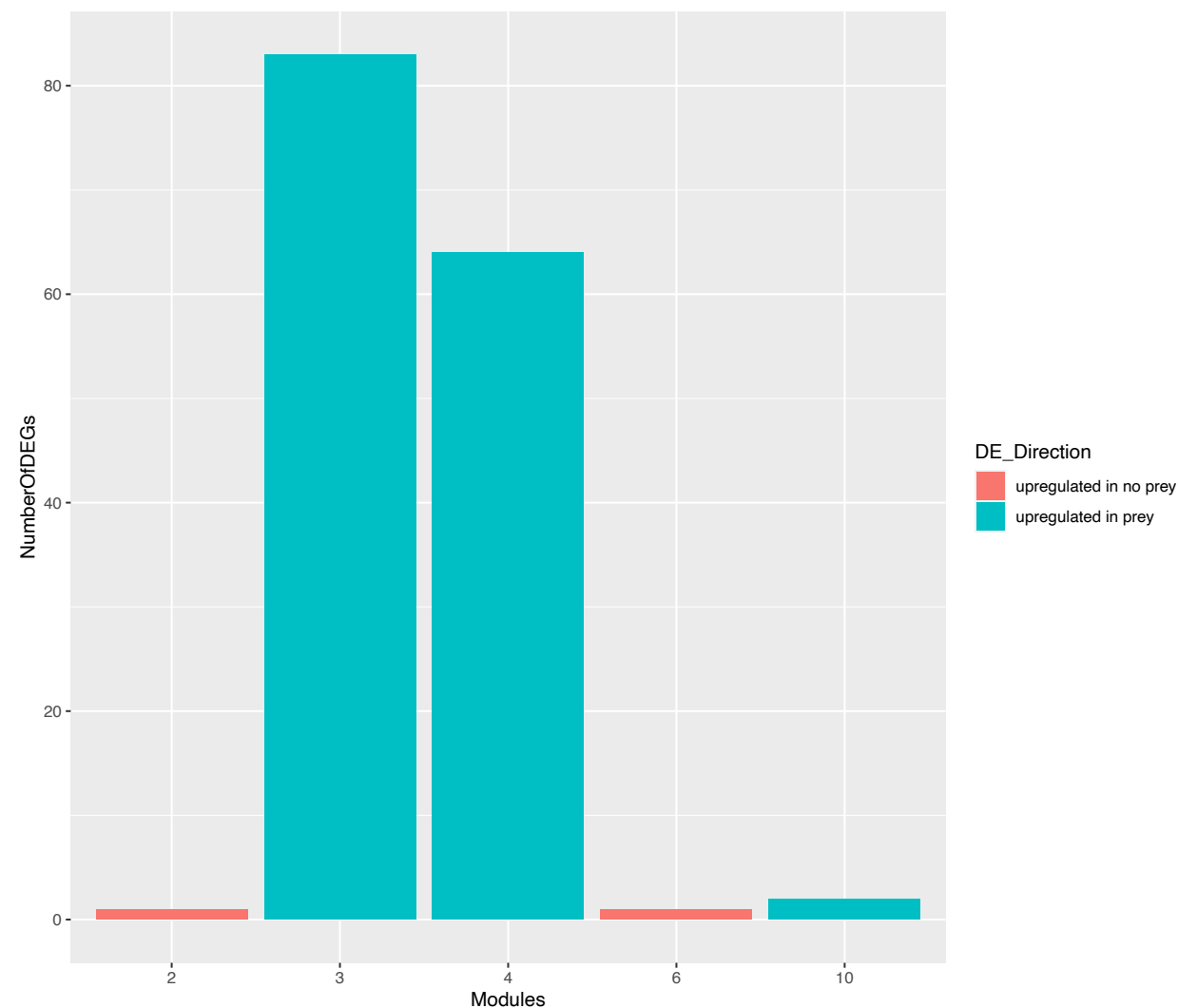
- Transcription regulator activity
- Molecular adaptor activity

DEG Network Module Correspondence

Prey Vs. No Prey 1 hr time point
174 DEGs

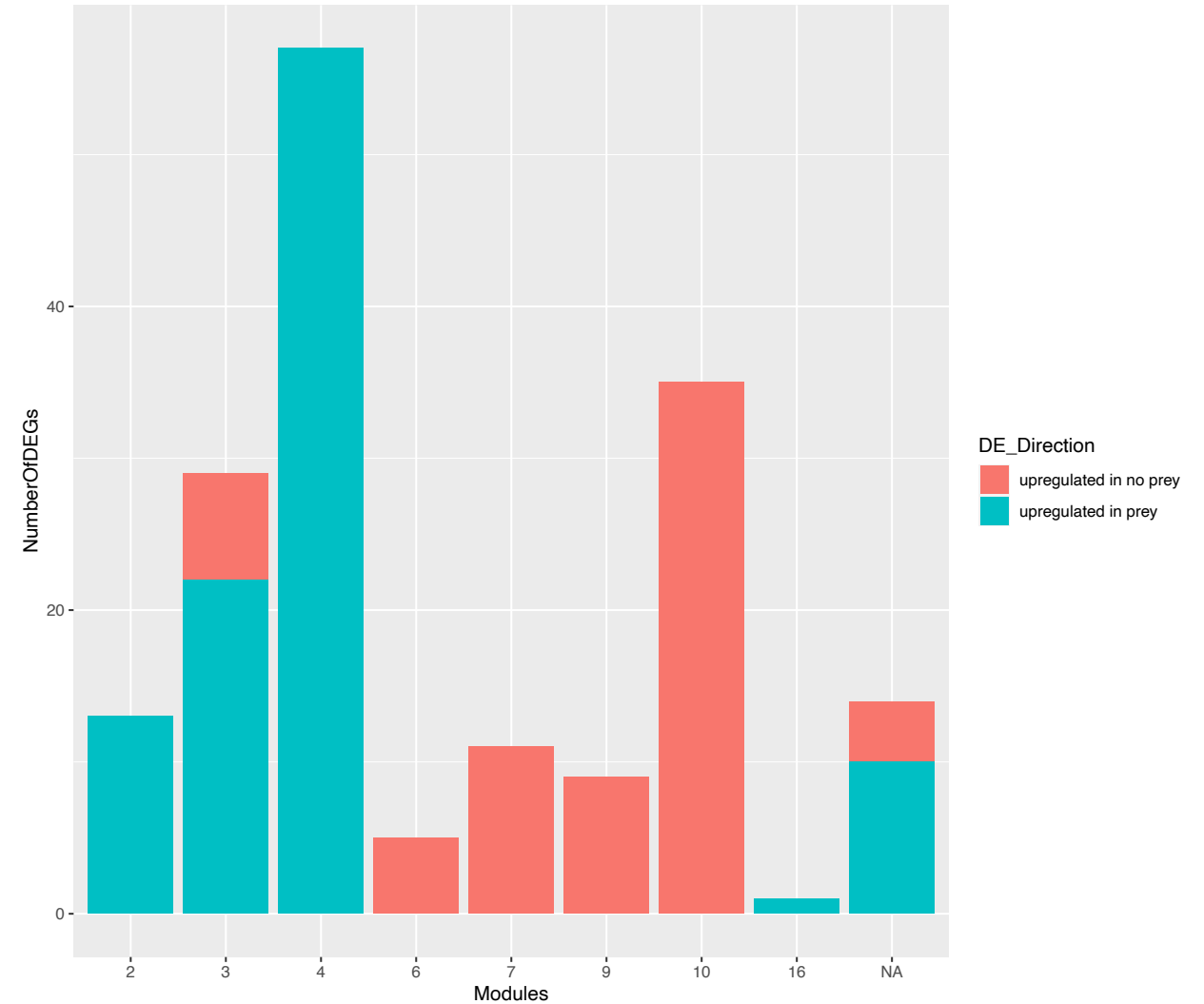
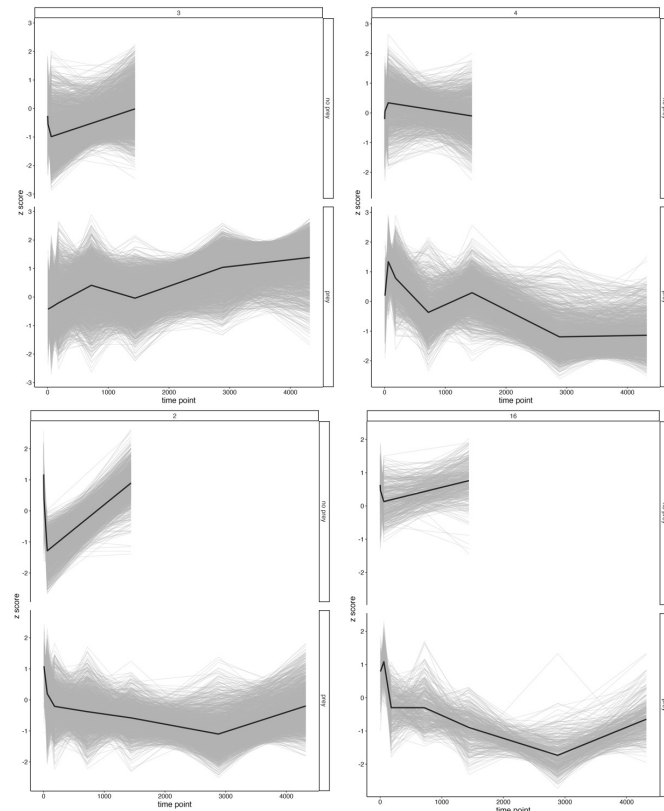


Prey Vs. No Prey 24 hr time point
151 DEGs



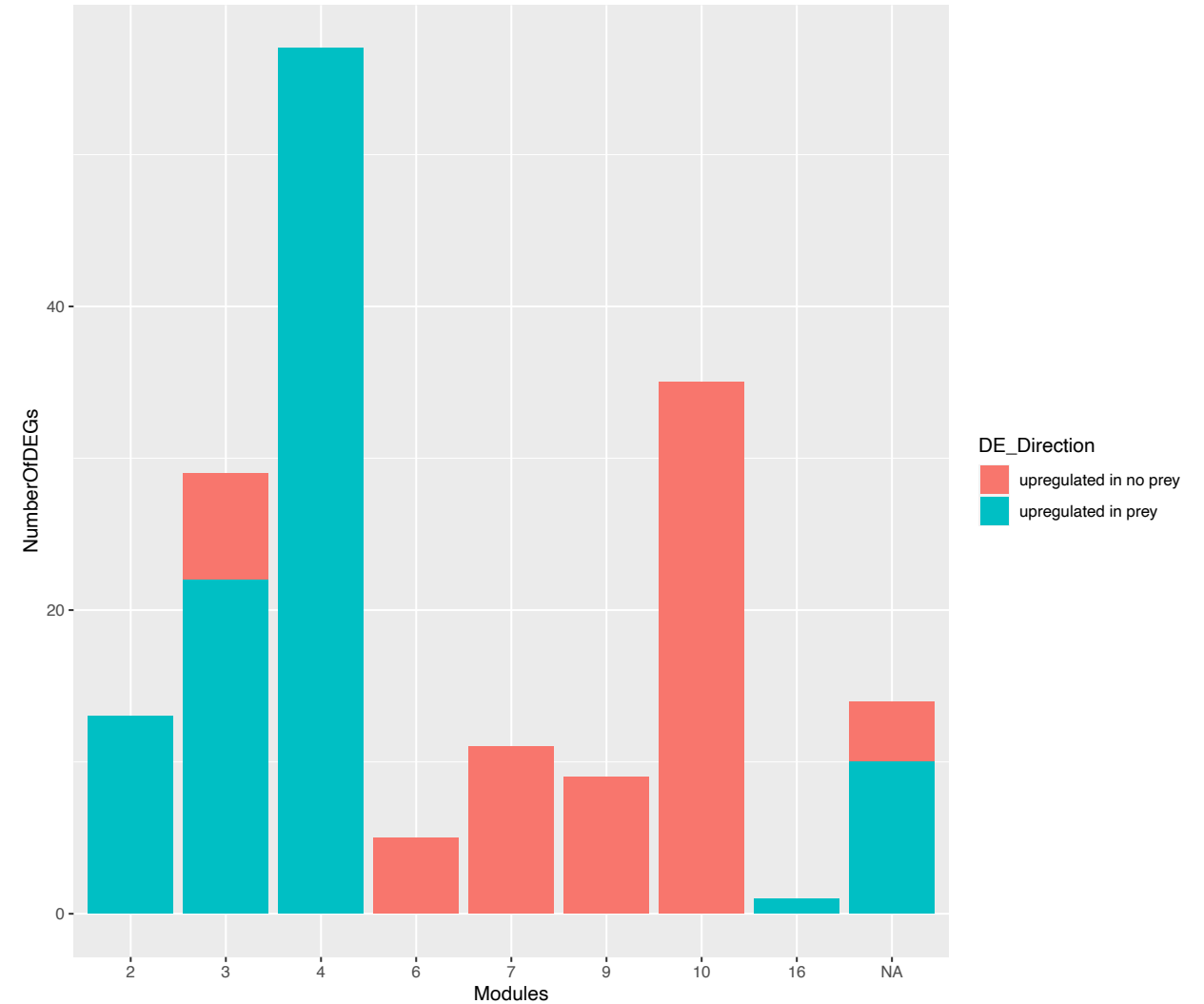
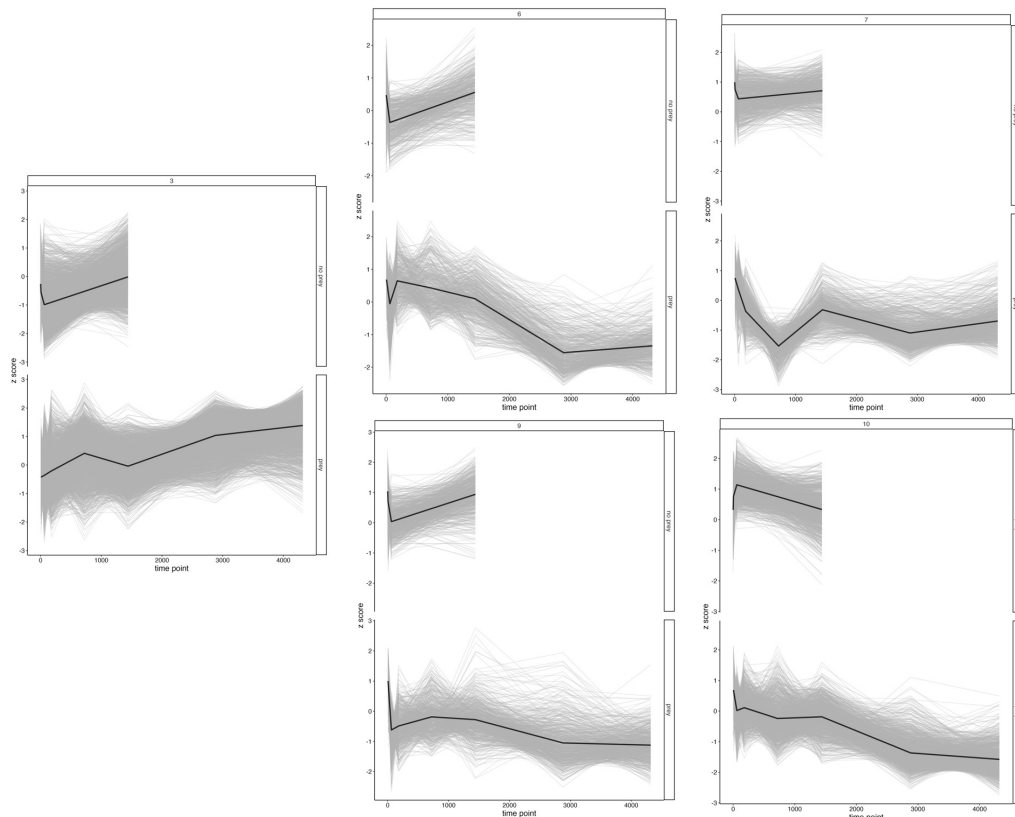
Prey Vs. No Prey 1 hr time point

103 upregulated in prey
module 2,3,4,16



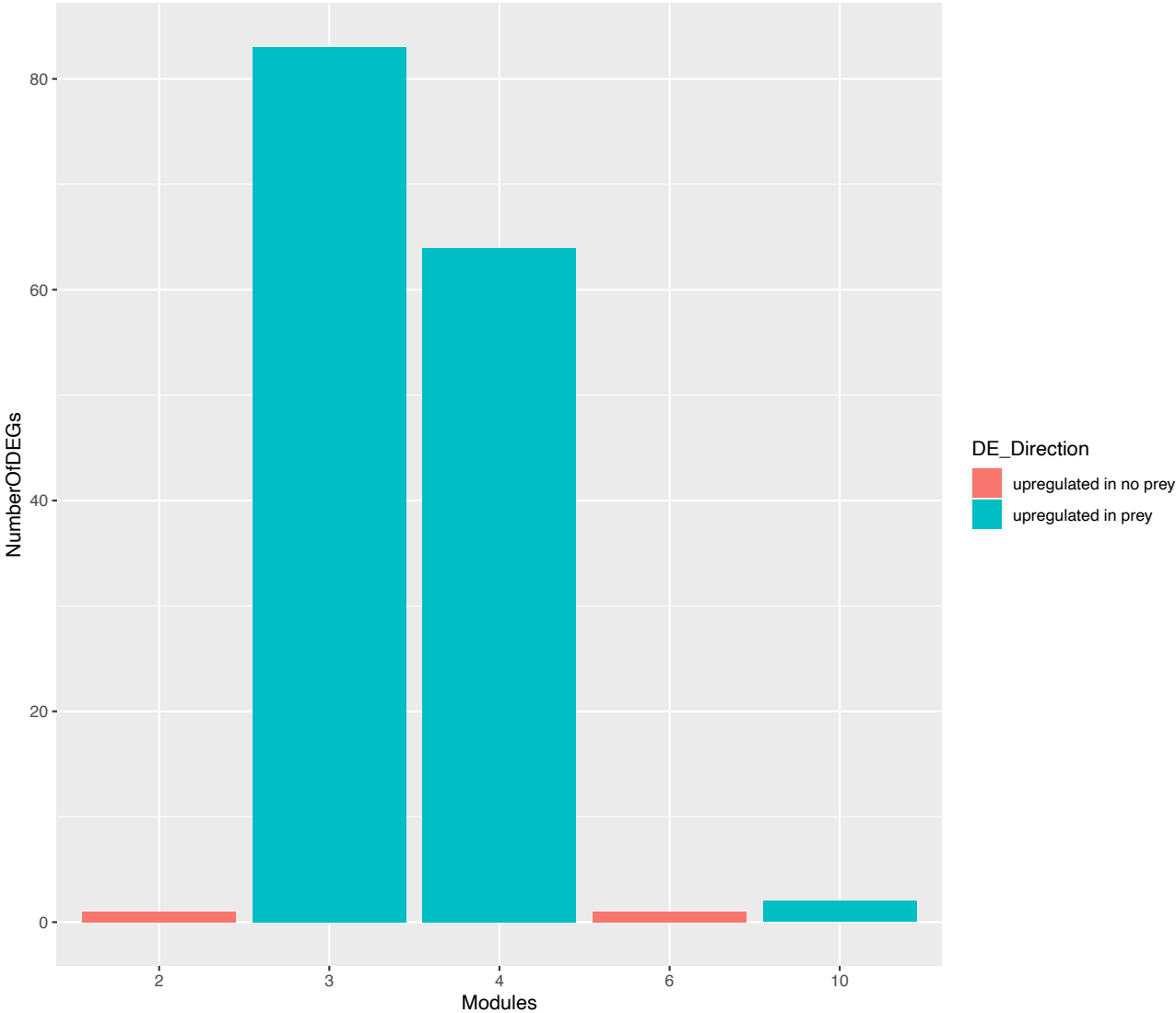
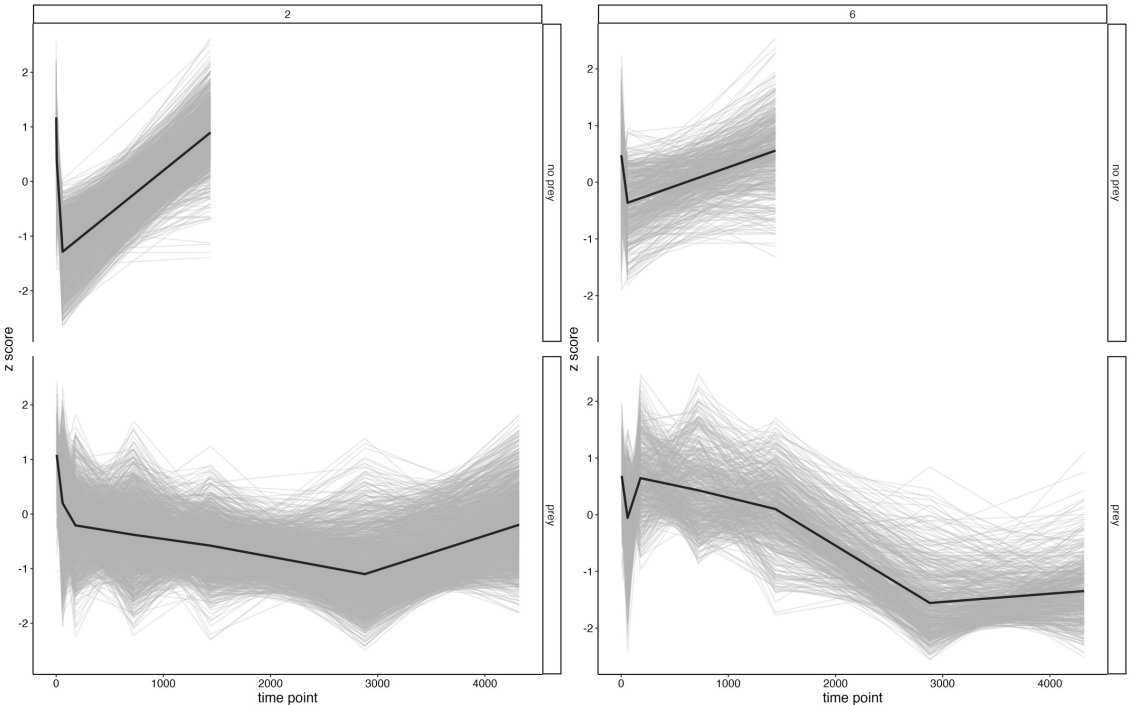
Prey Vs. No Prey 1 hr time point

71 upregulated in no prey –
module 3,6,7,9,10



Prey Vs. No Prey 24 hr time point

2 genes with higher expression in Mechanical Trigger – module 2 and 6



Prey Vs. No Prey 24 hr time point

2 genes with higher expression in Mechanical Trigger – module 2 and 6

Locus: AT5G11260

What's new on this page

Add a Comment

Representative Gene Model ?

AT5G11260.2

Gene Model Type

protein_coding

Other names:

ELONGATED HYPOCOTYL 5, HY5, REVERSAL OF THE DET PHENOTYPE 5, TED 5

Description ?

Basic leucine zipper (bZIP) transcription factor. Nuclear localization. Involved in light-regulated transcriptional activation of G-box-containing promoters. Negatively regulated by Cop1. Although cytokinins do not appear to affect the gene Primes promoter activity, they appear to stabilize the protein. HY5 plays a role in anthocyanin accumulation in far-red light and blue light, but not in red light or in the dark. Mutant studies showed that the gene product is involved in the positive regulation of the PHYA-mediated inhibition of hypocotyl elongation. Binds to G- and Z-boxes, and other ACEs, but not to E-box. Loss of function mutation shows ABA resistant seedling phenotypes suggesting involvement for HY5 in mediating ABA responses. Binds to the promoter of ABI5 and regulates its expression.

Gene Model: AT3G02380.1

[Help]

Name ?

AT3G02380.1

Name Type ?

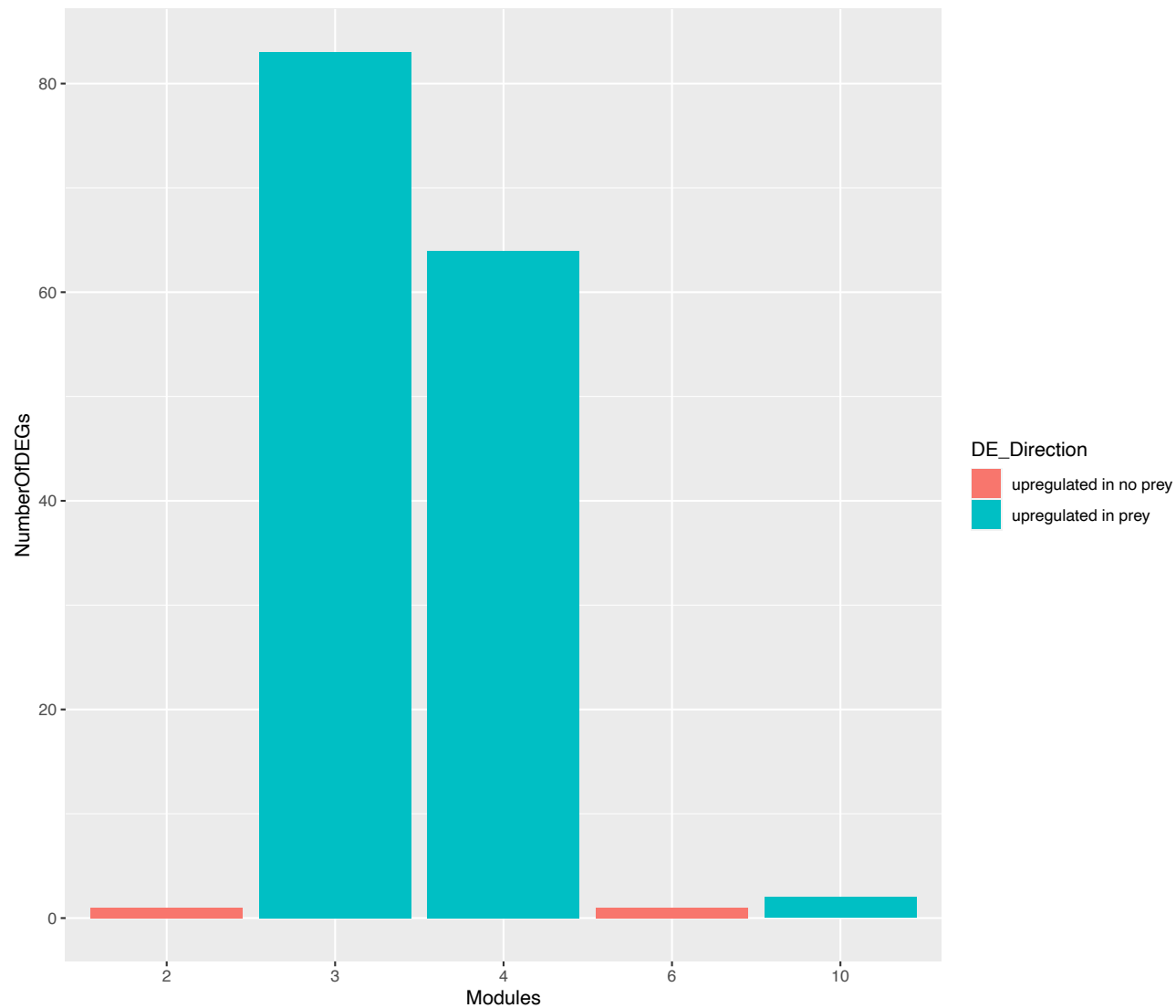
orf

Gene Model Type ?

protein_coding

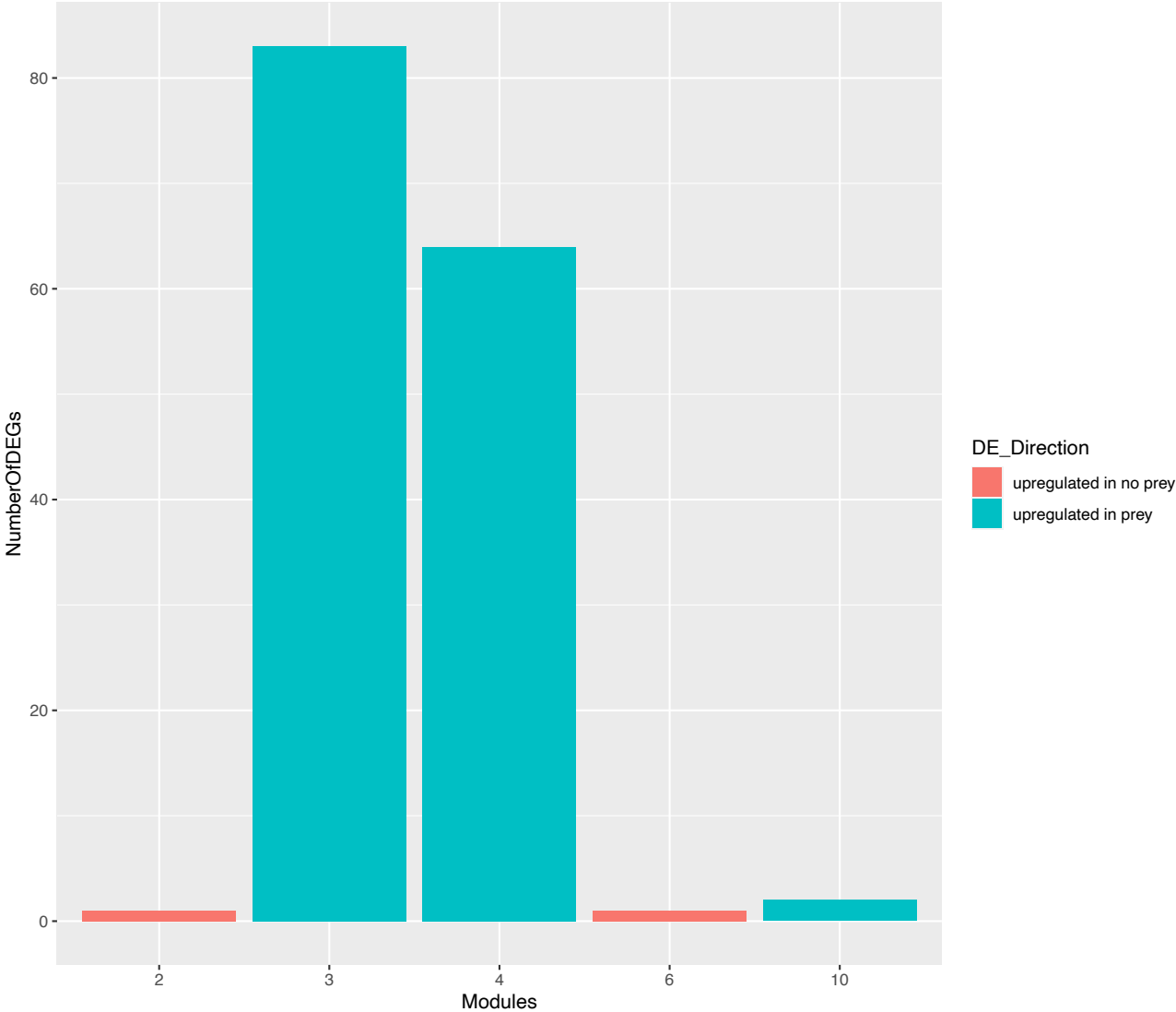
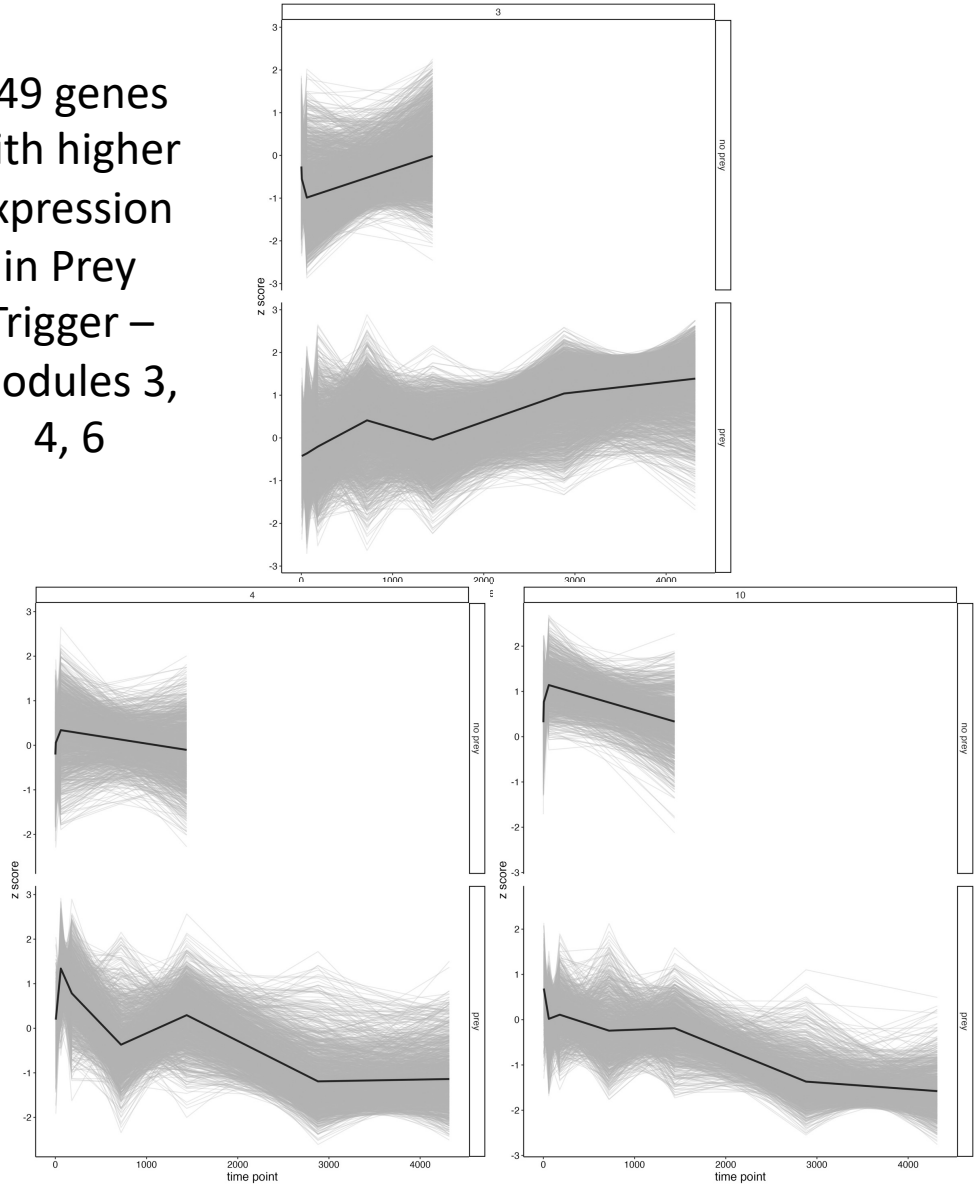
Description

homologous to the flowering-time gene CONSTANS (CO) encoding zinc-finger proteins



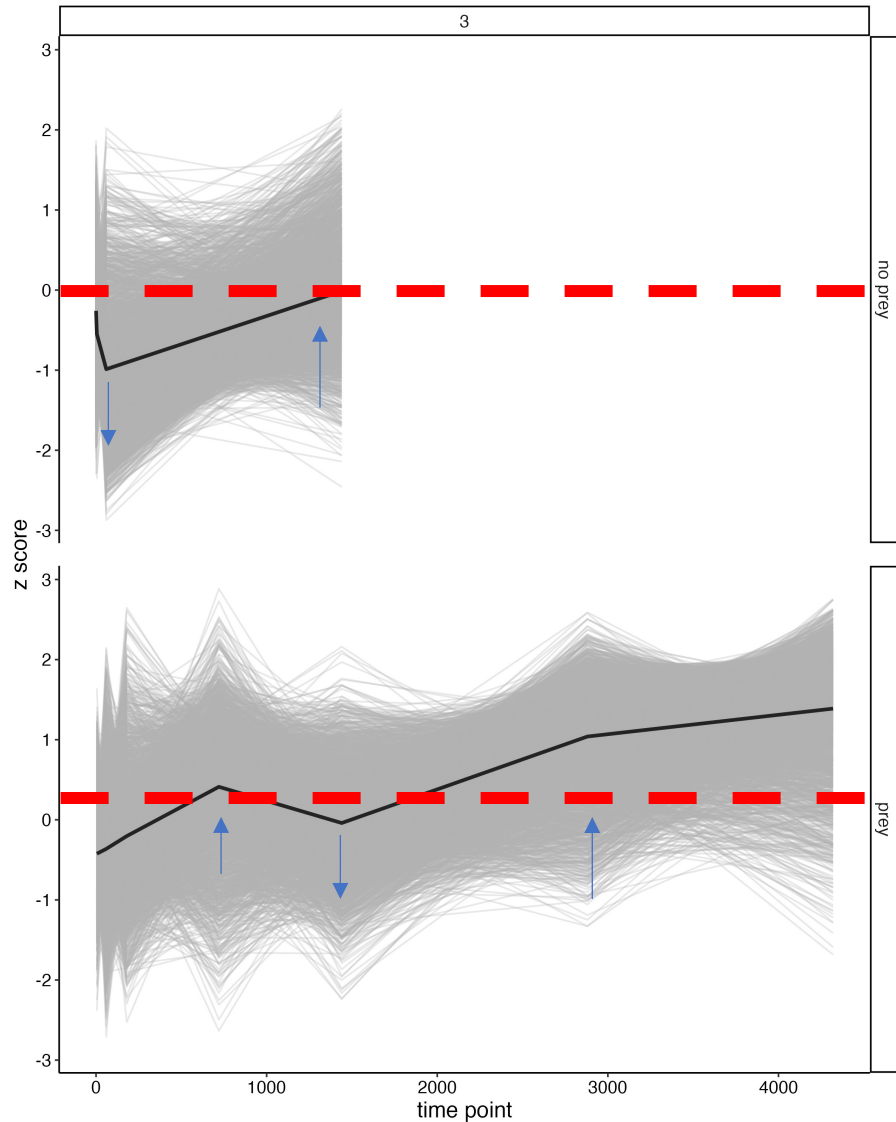
Prey Vs. No Prey 24 hr time point

149 genes
with higher
expression
in Prey
Trigger –
Modules 3,
4, 6

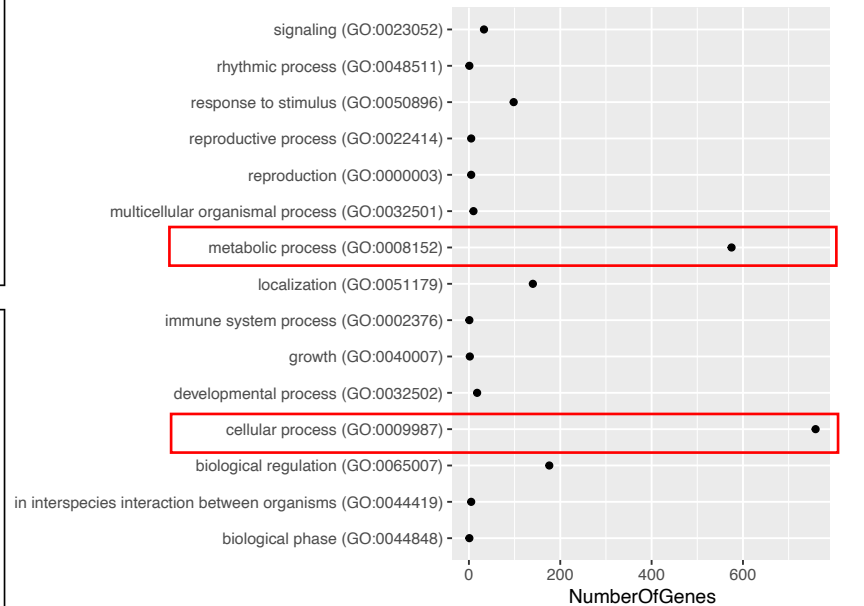


Network Module GO Classification

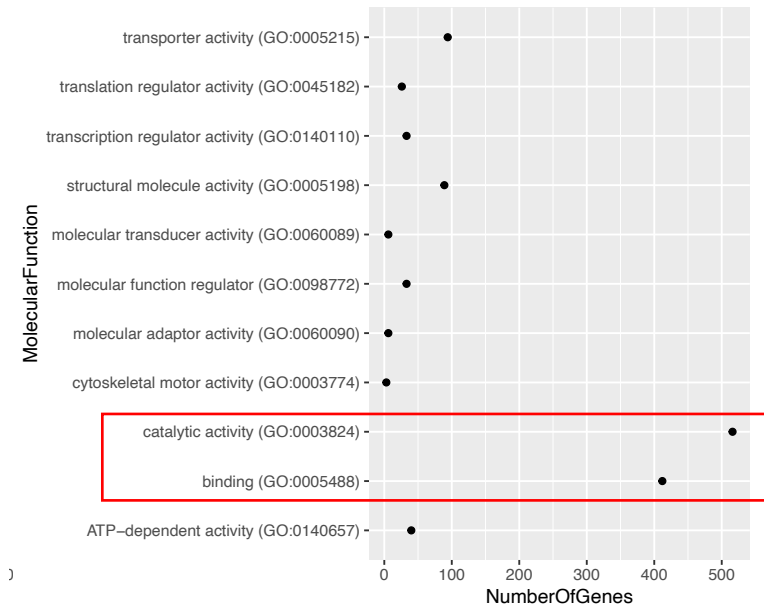
Module 3 GO Term Classification



3009 genes in module

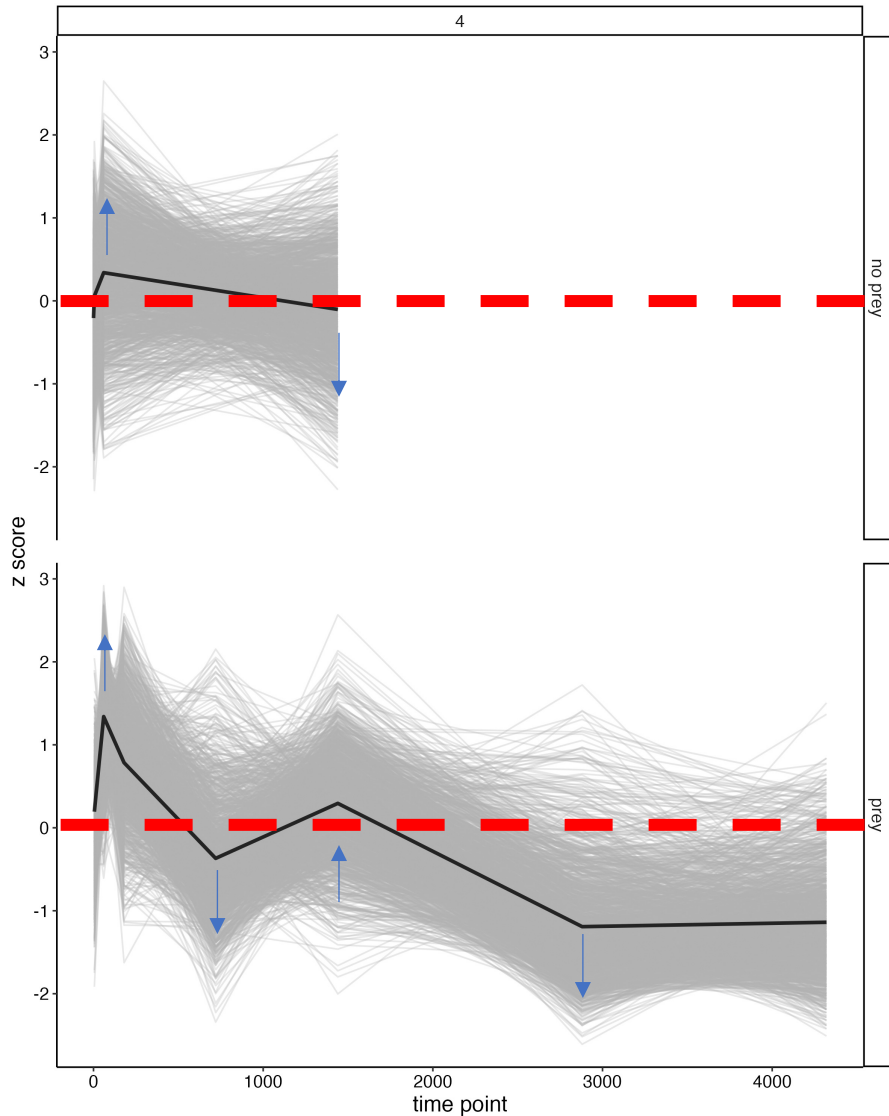


~600 genes associated with metabolic process
~700 genes associated with cellular process

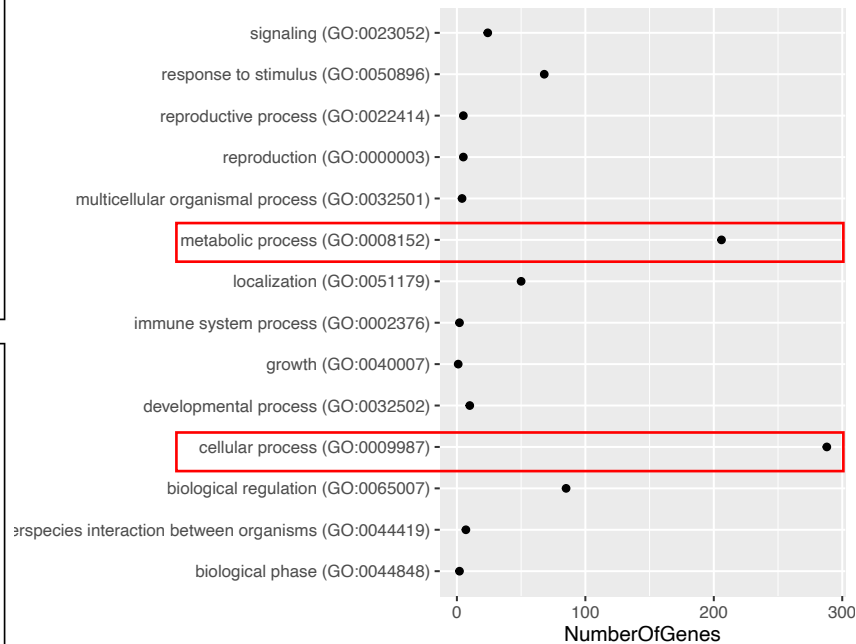


~500 genes associated with catalytic activity
~400 genes associated with binding

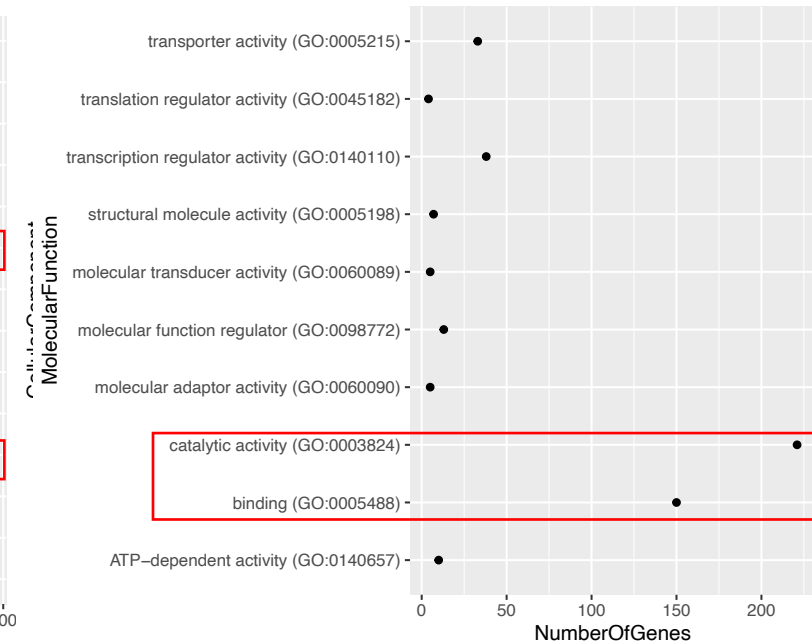
Module 4 GO Term Classification



1455 genes in module

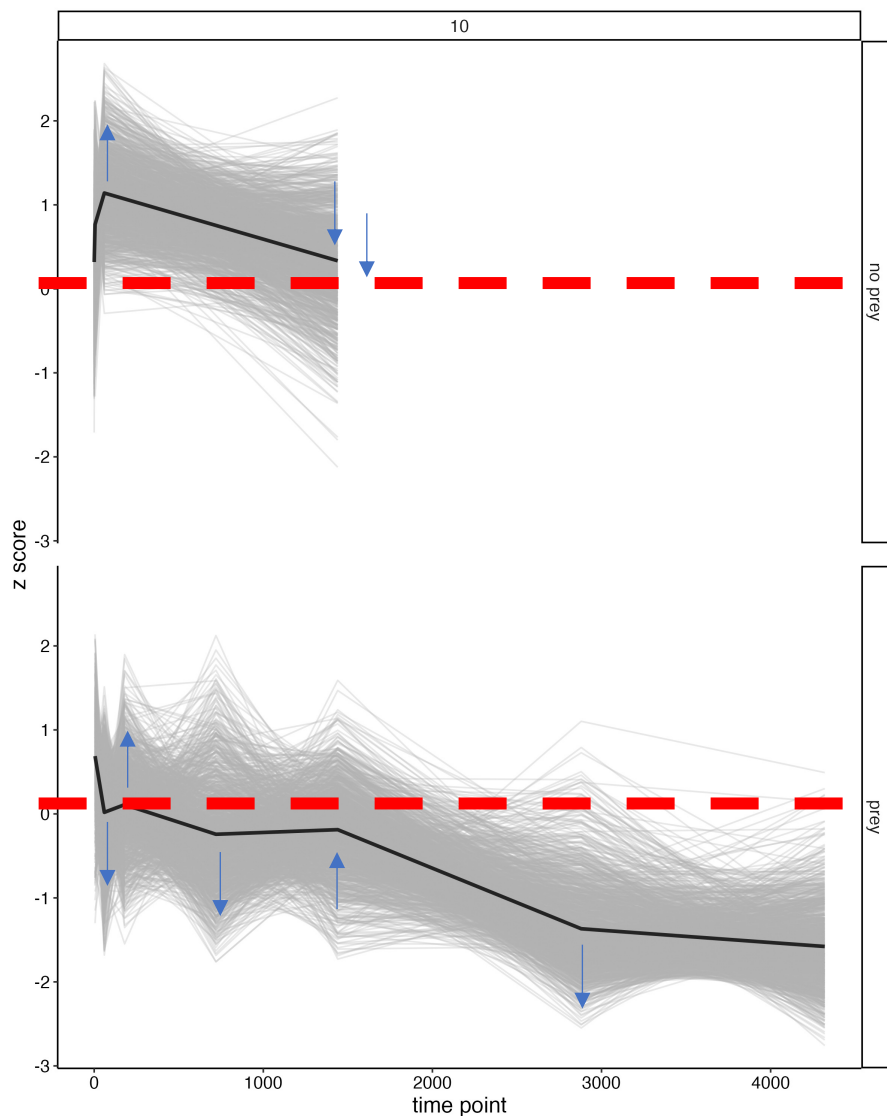


~200 genes associated with metabolic process
~300 genes associated with cellular process

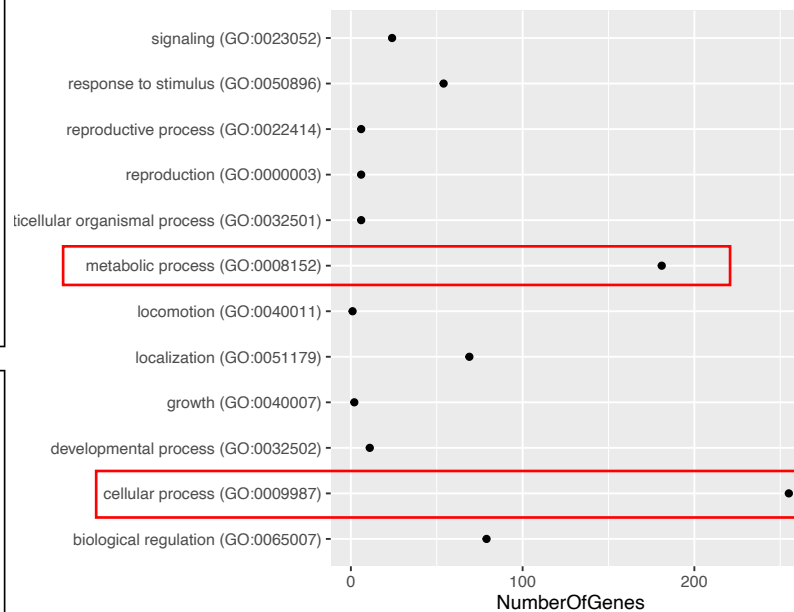


~200 genes associated with catalytic activity
~150 genes associated with binding

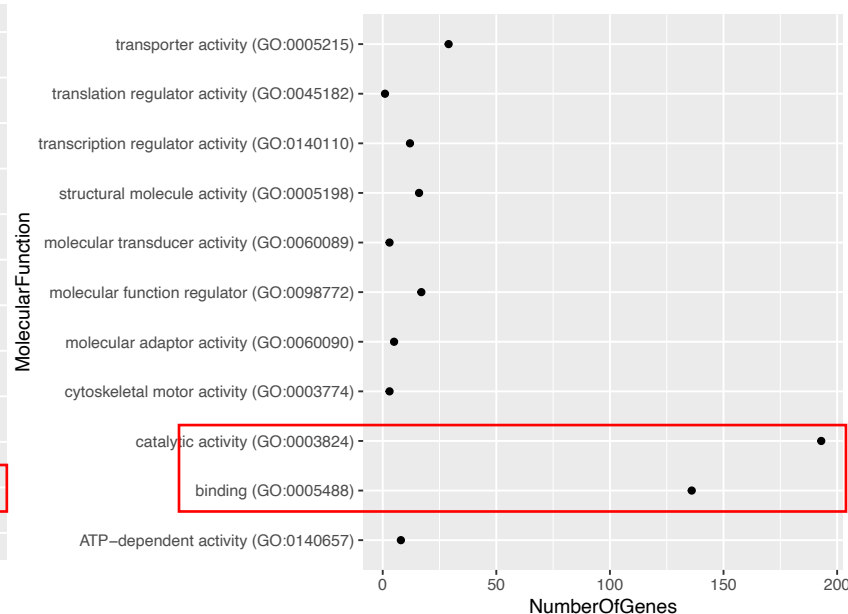
Module 10 GO Term Classification



1239 genes in module



~200 genes associated with metabolic process
~250 genes associated with cellular process



~200 genes associated with catalytic activity
~150 genes associated with binding