

Go enrichment analysis

彭晖

2017.3.13

```
search()  
listMarts()
```

```
H = useMart("ENSEMBL_MART_ENSEMBL")  
listDatasets(H)
```

猩猩

```
M <- useMart("ENSEMBL_MART_ENSEMBL",dataset="pabelii_gene_ensembl")
```

```
test=getBM(attributes =  
c("hgnc_symbol","go_id","name_1006","external_gene_name","namespace_1003")  
,filters = "hgnc_symbol",values = c("TNF"),mart = M)
```

```
test
```

```
write.table(test,"test2017.csv",sep = "\t",row.names = FALSE,quote=FALSE)
```

| 1 | hgnc_symbol | go_id | name_1006 | external_gene_name | namespace_1003 |
|----|-------------|------------|---|--------------------|--------------------|
| 2 | TNF | GO:0055037 | recycling endosome | TNF | cellular_component |
| 3 | TNF | GO:0045121 | membrane raft | TNF | cellular_component |
| 4 | TNF | GO:0016021 | integral component of membrane | TNF | cellular_component |
| 5 | TNF | GO:0016020 | membrane | TNF | cellular_component |
| 6 | TNF | GO:0009986 | cell surface | TNF | cellular_component |
| 7 | TNF | GO:0009897 | external side of plasma membrane | TNF | cellular_component |
| 8 | TNF | GO:0005887 | integral component of plasma membrane | TNF | cellular_component |
| 9 | TNF | GO:0005886 | plasma membrane | TNF | cellular_component |
| 10 | TNF | GO:0005622 | intracellular | TNF | cellular_component |
| 11 | TNF | GO:0005615 | extracellular space | TNF | cellular_component |
| 12 | TNF | GO:0005576 | extracellular region | TNF | cellular_component |
| 13 | TNF | GO:0001891 | phagocytic cup | TNF | cellular_component |
| 14 | TNF | GO:2001240 | negative regulation of extrinsic apoptotic signaling pathway in absence of ligand | TNF | biological_process |
| 15 | TNF | GO:2000377 | regulation of reactive oxygen species metabolic process | TNF | biological_process |
| 16 | TNF | GO:2000343 | positive regulation of chemokine (C-X-C motif) ligand 2 production | TNF | biological_process |
| 17 | TNF | GO:2000334 | positive regulation of blood microparticle formation | TNF | biological_process |
| 18 | TNF | GO:2000010 | positive regulation of protein localization to cell surface | TNF | biological_process |
| 19 | TNF | GO:1904999 | positive regulation of leukocyte adhesion to arterial endothelial cell | TNF | biological_process |
| 20 | TNF | GO:1904996 | positive regulation of leukocyte adhesion to vascular endothelial cell | TNF | biological_process |
| 21 | TNF | GO:1904707 | positive regulation of vascular smooth muscle cell proliferation | TNF | biological_process |
| 22 | TNF | GO:1903347 | negative regulation of bicellular tight junction assembly | TNF | biological_process |
| 23 | TNF | GO:1903140 | regulation of establishment of endothelial barrier | TNF | biological_process |
| 24 | TNF | GO:1901671 | positive regulation of superoxide dismutase activity | TNF | biological_process |

LOC_Os08g28560
 LOC_Os12g04350
 LOC_Os11g31940
 LOC_Os11g04530
 LOC_Os03g12030
 LOC_Os02g44730
 LOC_Os05g45230
 LOC_Os04g40500
 LOC_Os10g37400
 LOC_Os02g51110

401↑

agriGO

Analysis Brief Summary


Job ID: 113924056 [Useful within 7 days]

Job Name: 113924056


Species: *Oryza sativa Japonica*

GO type: Completed GO

Background/Reference: Rice TIGR locus

Annotated number in query list: 401 [ Download]

Annotated number in background/reference: 24460

Significant GO terms: 79 [ Details]

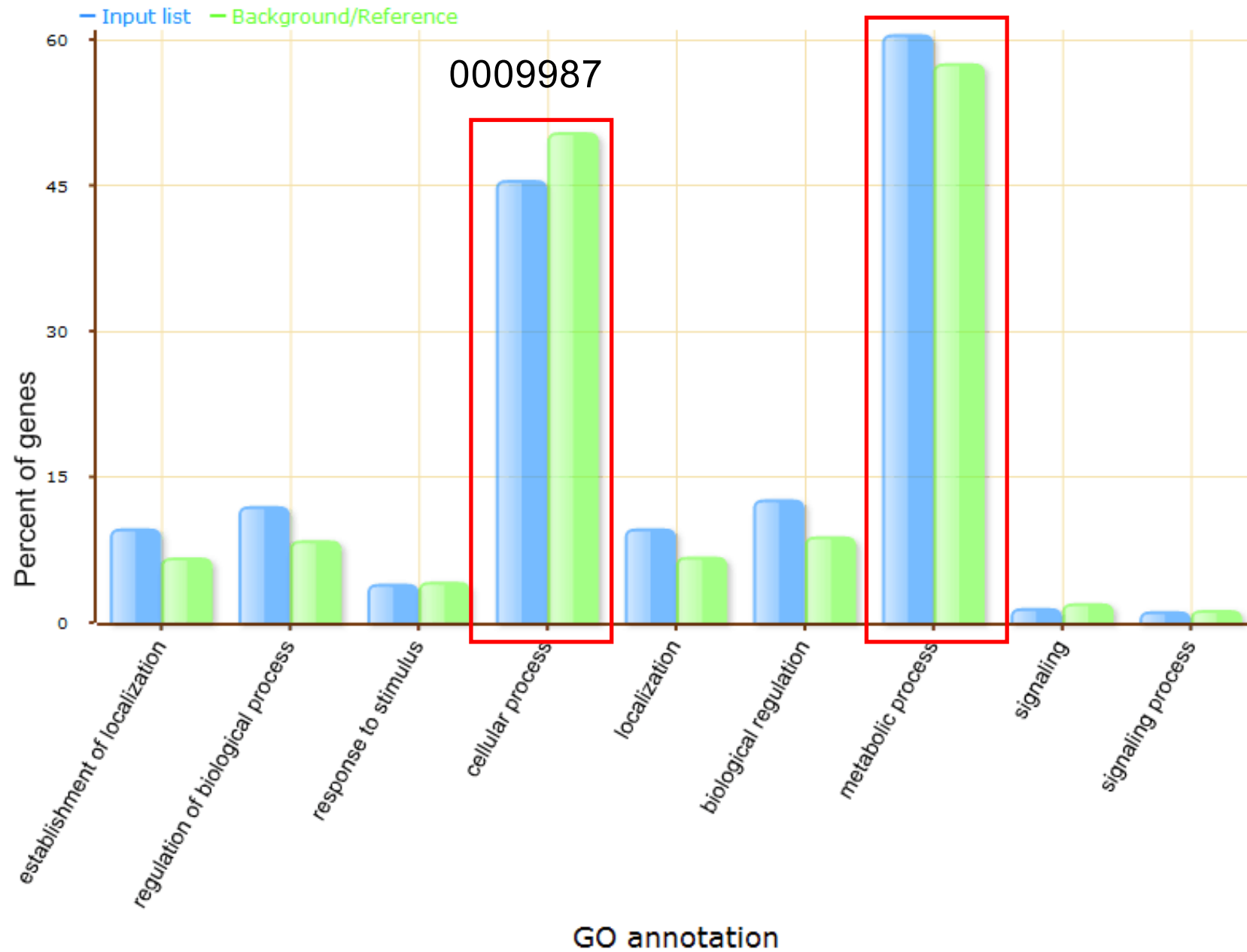
.....

Biological Process

Save as Image

[You might need FireFox to achieve it]

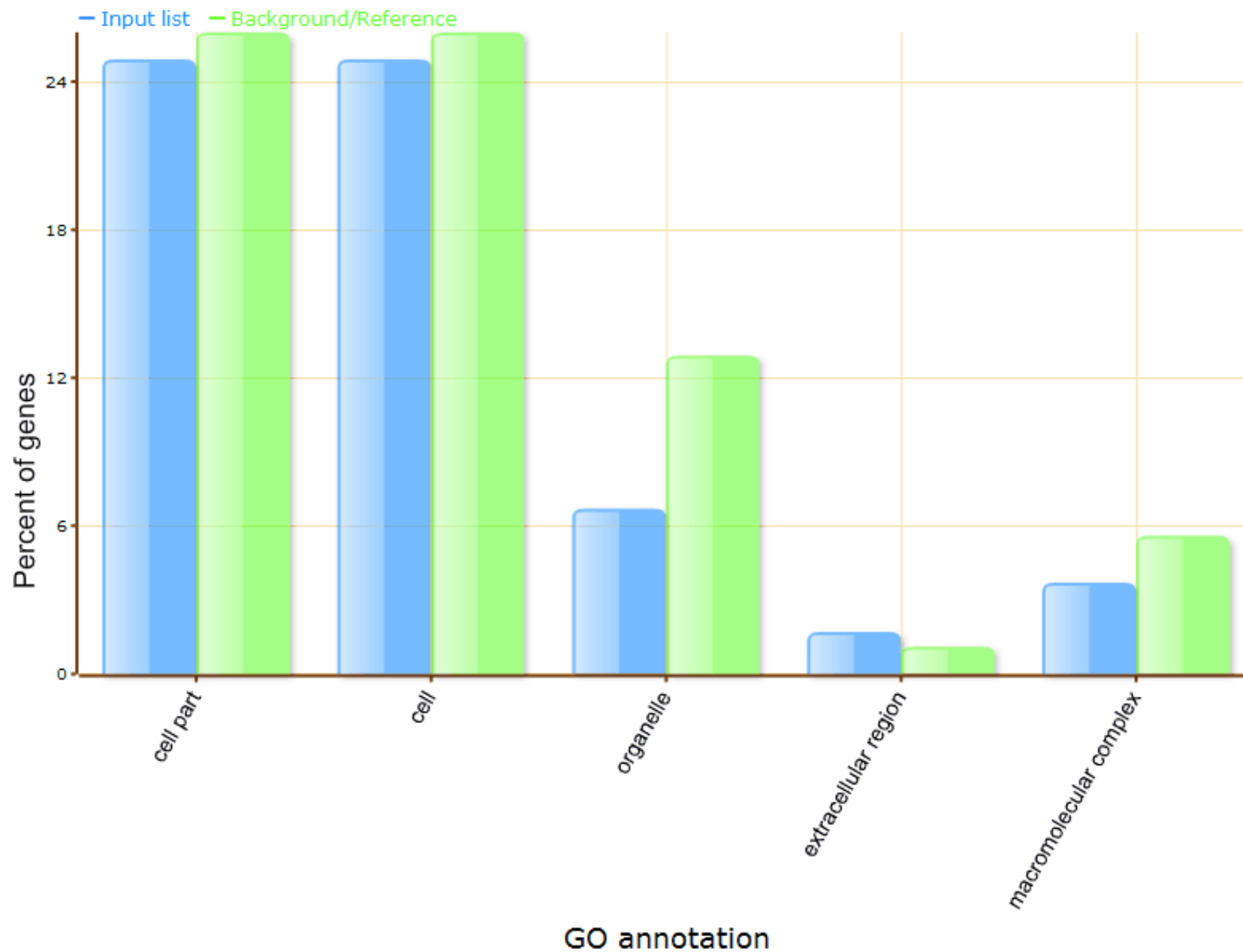
0008152



Cellular Component

0044464

0005623



Molecular Function

