

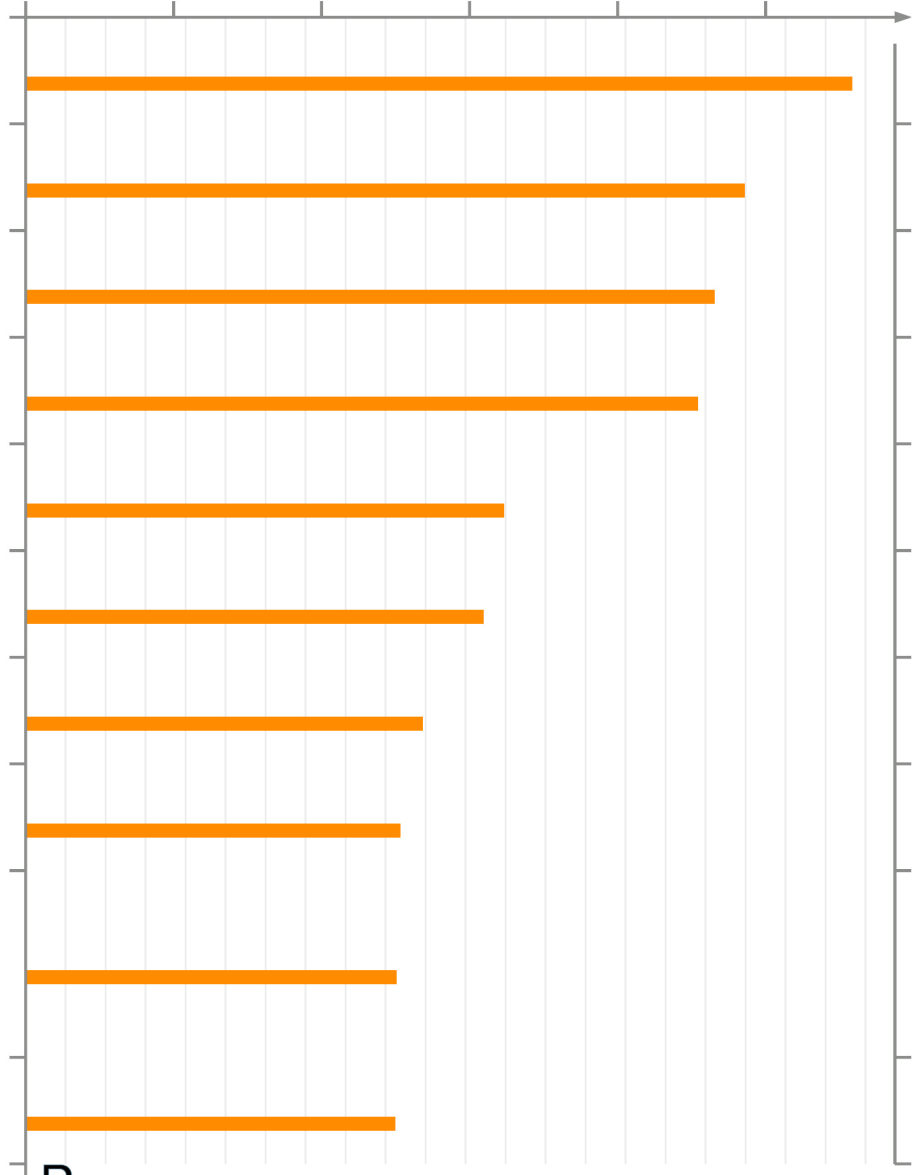
A

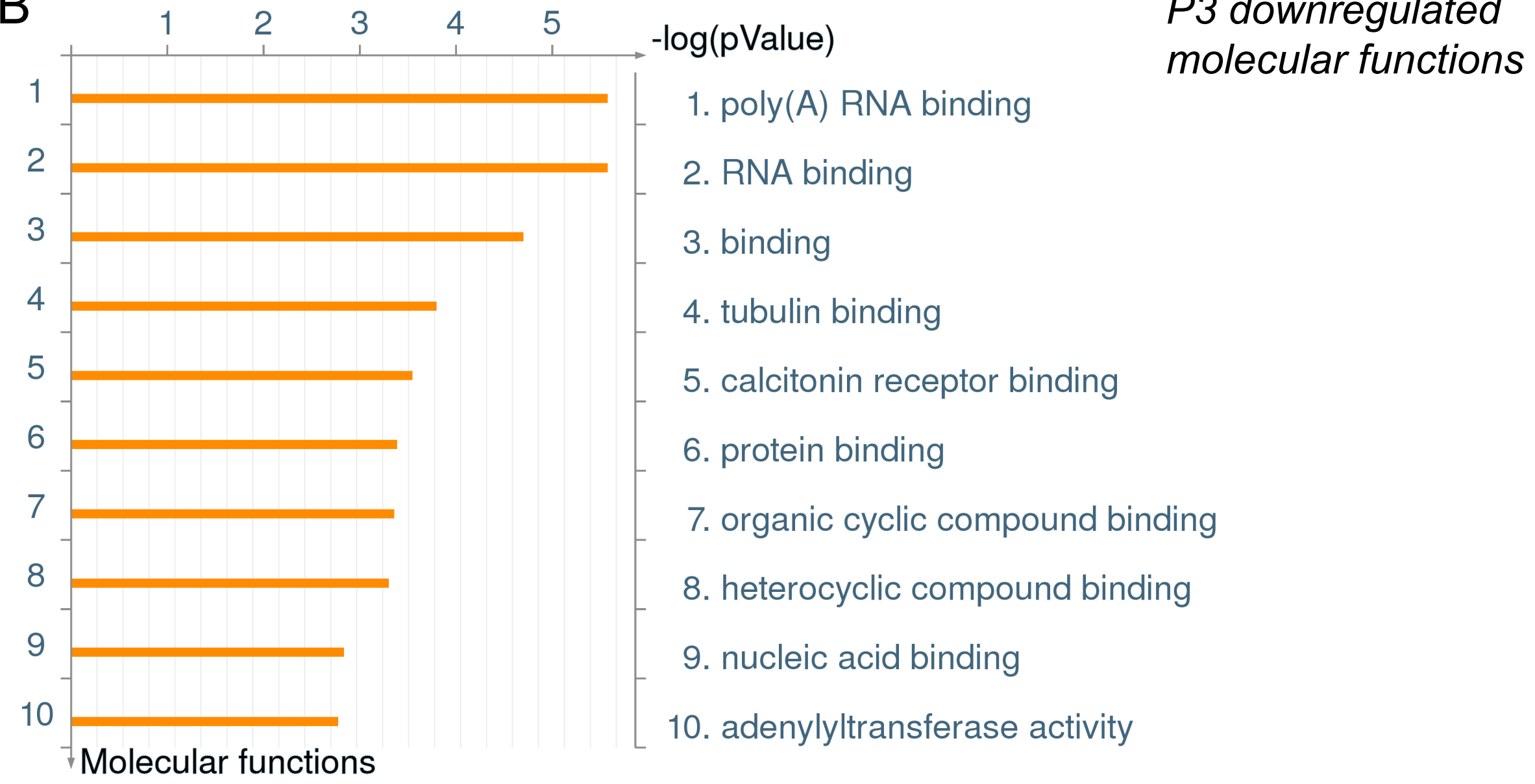
2 4 6 8 10

 $-\log(\text{pValue})$ *P3 downregulated
GO processes*1
2
3
4
5
6
7
8
9
10

- 1. cell cycle
- 2. mitotic cell cycle
- 3. mitotic cell cycle process
- 4. cell cycle process
- 5. cell division
- 6. organelle organization
- 7. nuclear division
- 8. organelle fission
- 9. baroreceptor response to increased systemic arterial blood pressure
- 10. DNA metabolic process

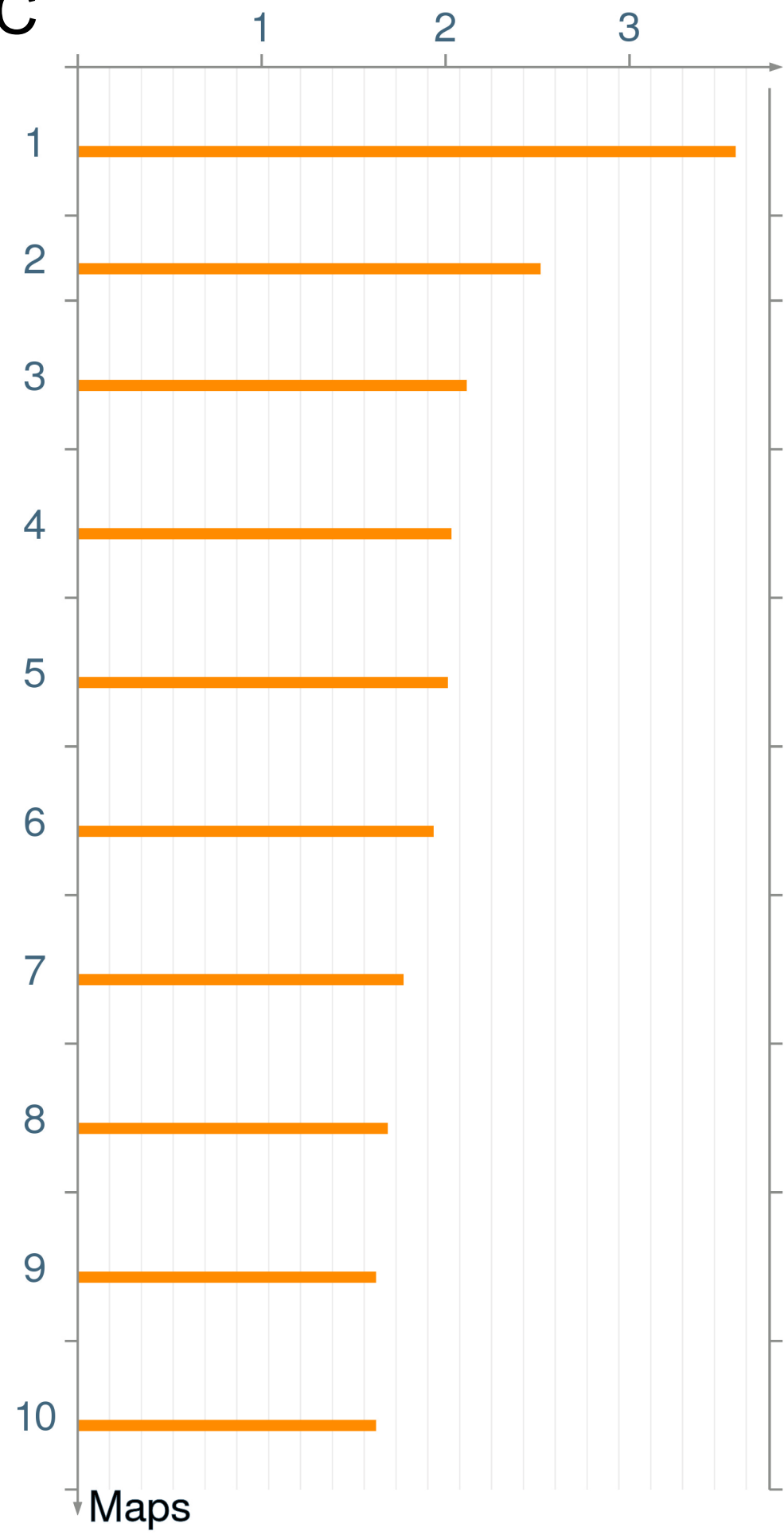
Processes



B

C

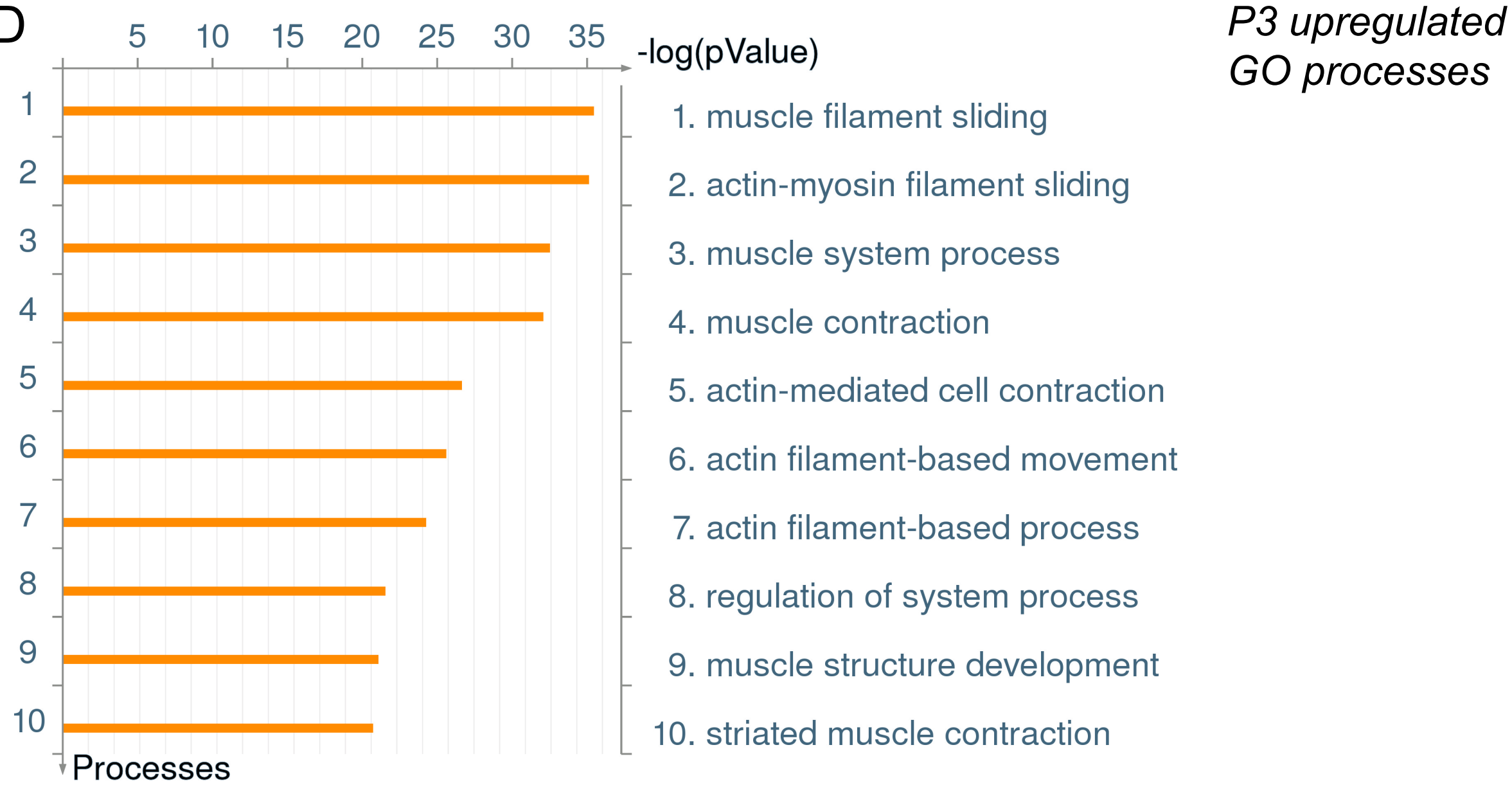
P3 downregulated pathway maps

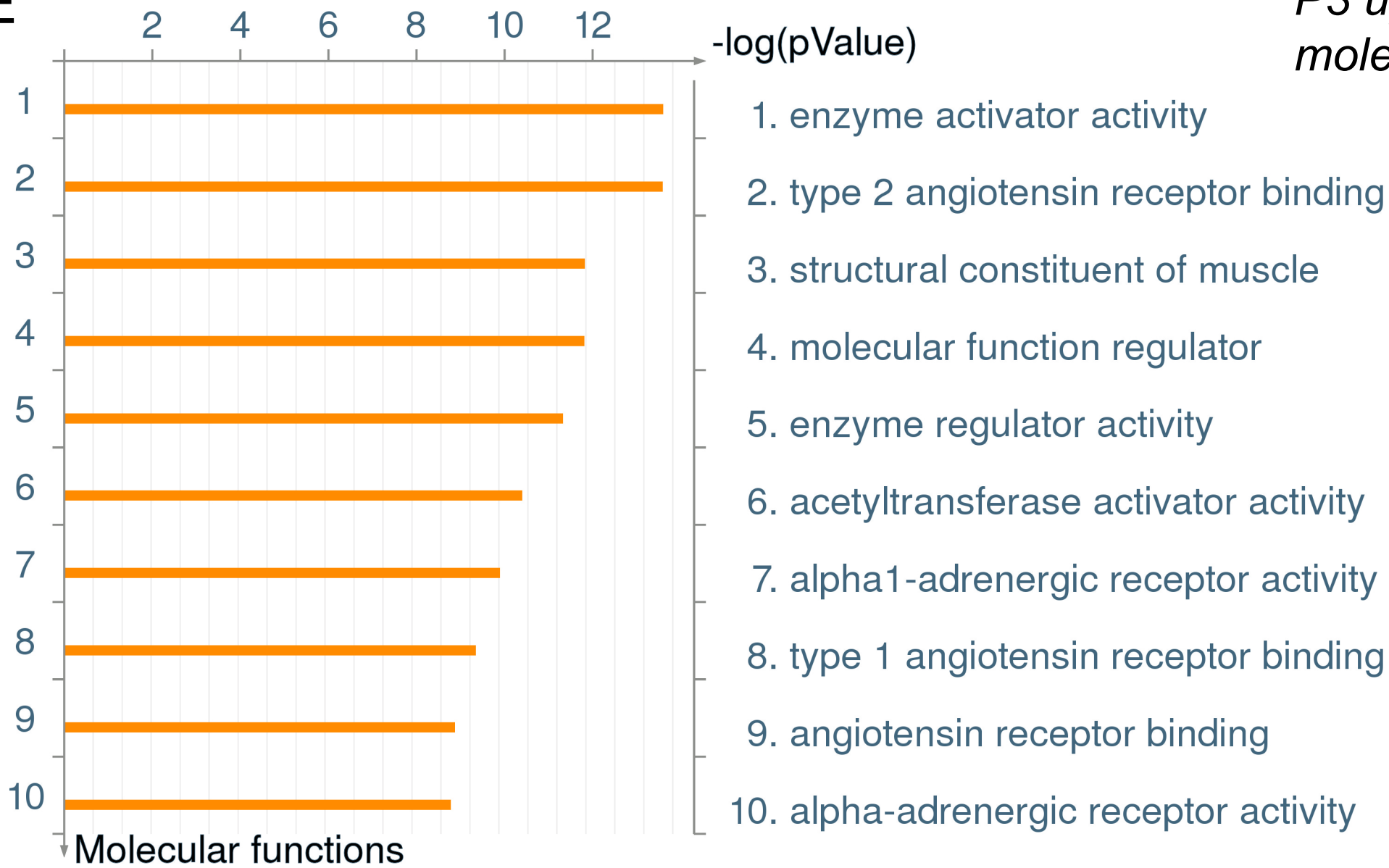


-log(pValue)

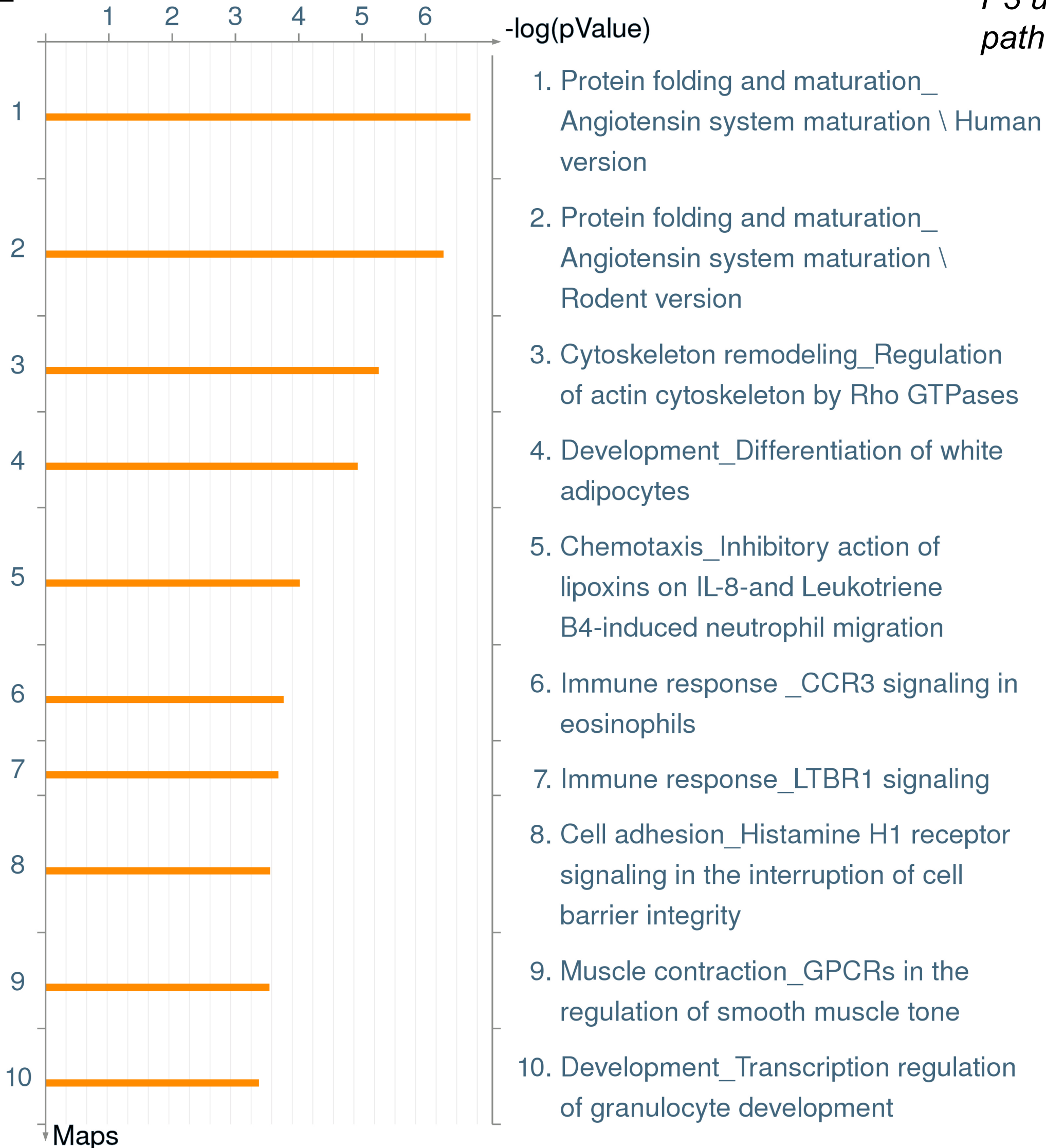
1. Cell cycle_Transition and termination of DNA replication
2. Transport_RAN regulation pathway
3. Apoptosis and survival_p53-dependent apoptosis
4. DNA damage_ATM/ATR regulation of G1/S checkpoint
5. Histidine-glutamate-glutamine metabolism
6. G-protein signaling_Regulation of RAC1 activity
7. Immune response_IL-1 signaling pathway
8. Immune response_Bacterial infections in normal airways
9. Apoptosis and survival_Role of PKR in stress-induced apoptosis
10. Translation_Regulation of EIF4F activity

Maps

D

E

*P3 upregulated
molecular functions*

F*P3 upregulated
pathway maps*

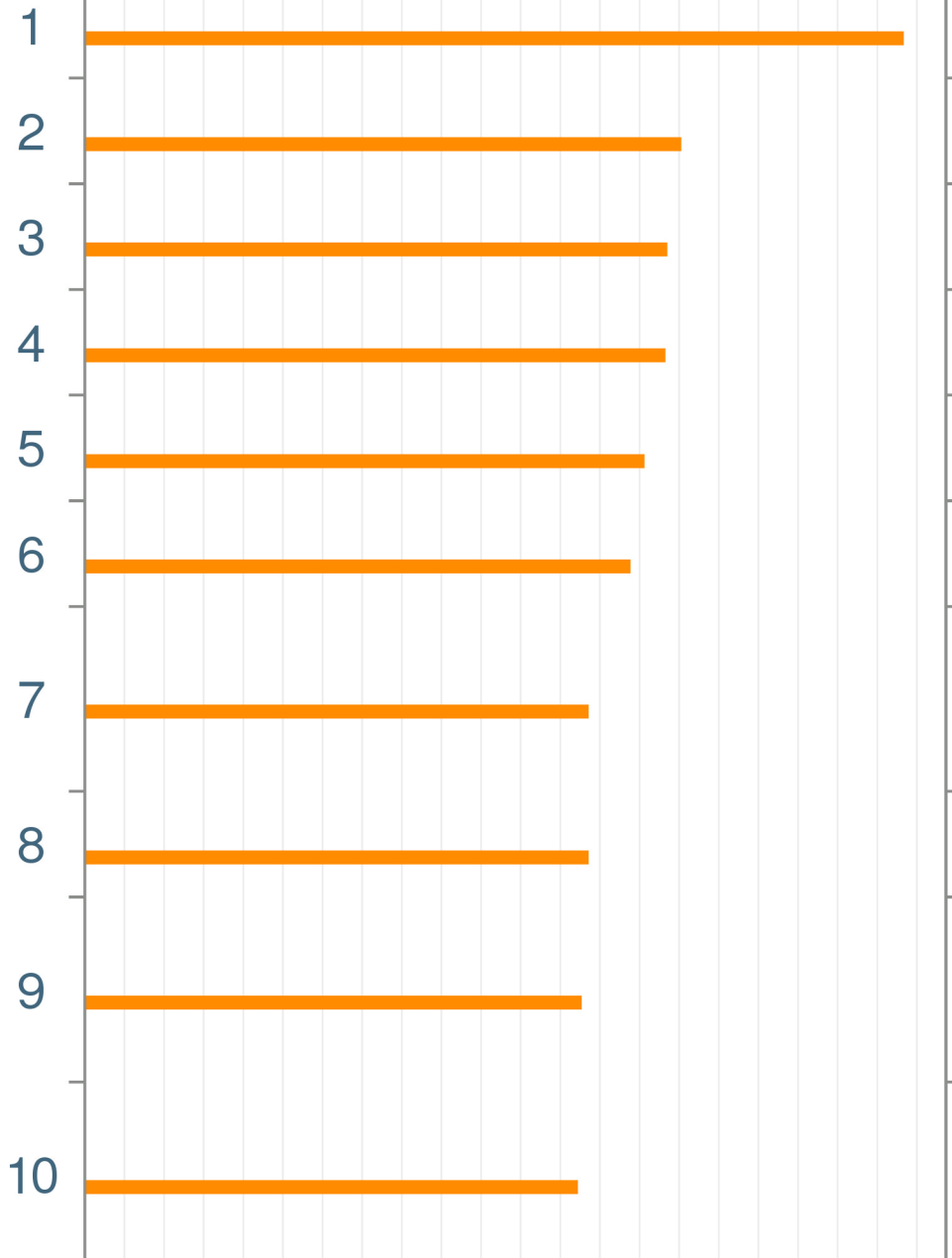
Maps

G

*P21 downregulated
GO processes*

2 4 6 8 10

$-\log(\text{pValue})$



1. response to stress
2. cell death
3. ferrous iron import into cell
4. defense response
5. ferrous iron transport
6. ferrous iron import
7. positive regulation of acute inflammatory response
8. response to virus
9. regulation of oligodendrocyte progenitor proliferation
10. positive regulation of arachidonic acid secretion

Processes

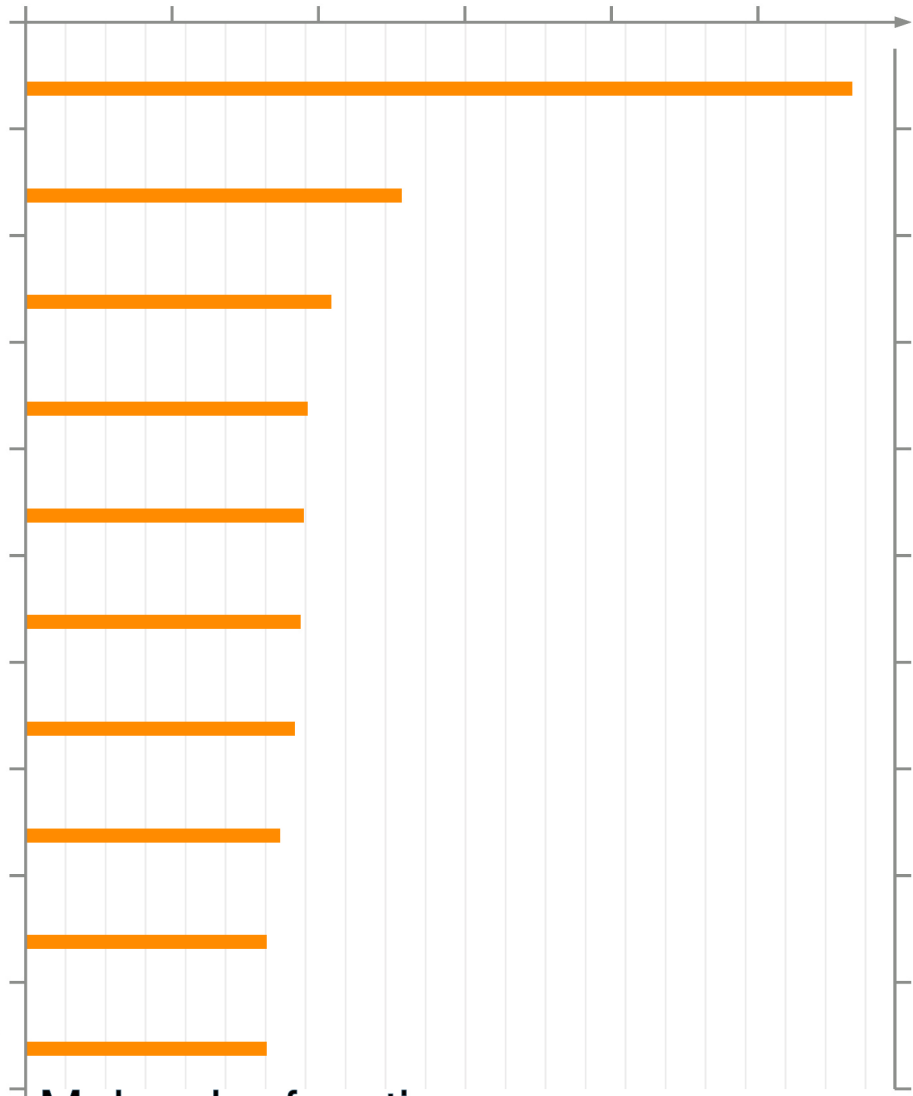
H

2 4 6 8 10

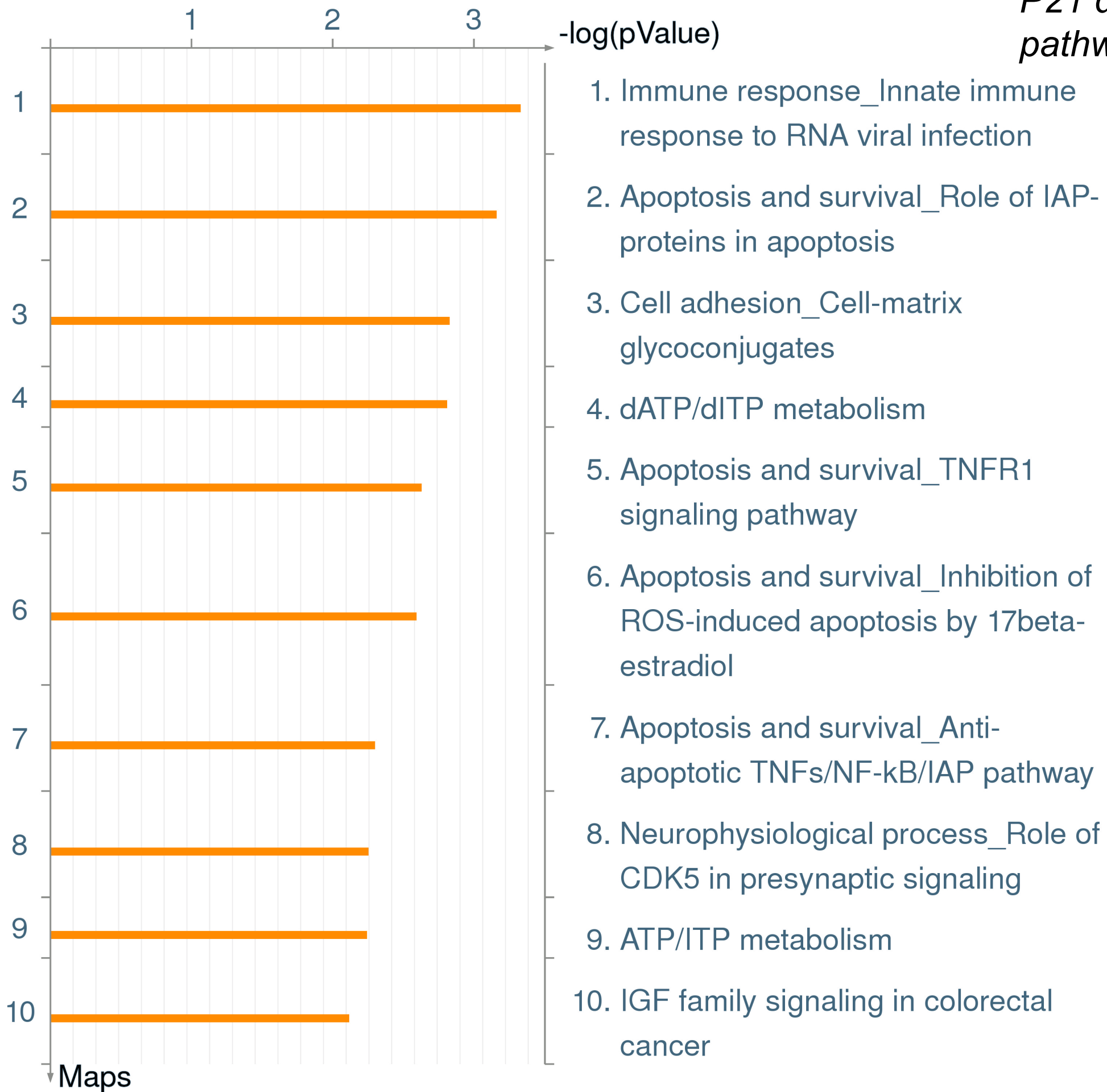
 $-\log(\text{pValue})$ *P21 downregulated
molecular functions*1
2
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10

1. protein binding
2. binding
3. catalytic activity
4. recombinase activity
5. hydrolase activity
6. hepoxilin-epoxide hydrolase activity
7. ether hydrolase activity
8. glutathione peroxidase activity
9. hepoxilin A3 synthase activity
10. type 2A serotonin receptor binding

Molecular functions



*P21 downregulated
pathway maps*



J

2 4 6 8 10

 $-\log(\text{pValue})$ *P21 upregulated
GO processes*

1

1. positive regulation of RNA
biosynthetic process

2

2. animal organ morphogenesis

3

3. multicellular organism development

4

4. positive regulation of RNA metabolic
process

5

5. positive regulation of nucleobase-
containing compound metabolic process

6

6. positive regulation of nucleic acid-
templated transcription

7

7. positive regulation of transcription,
DNA-templated

8

8. anatomical structure development

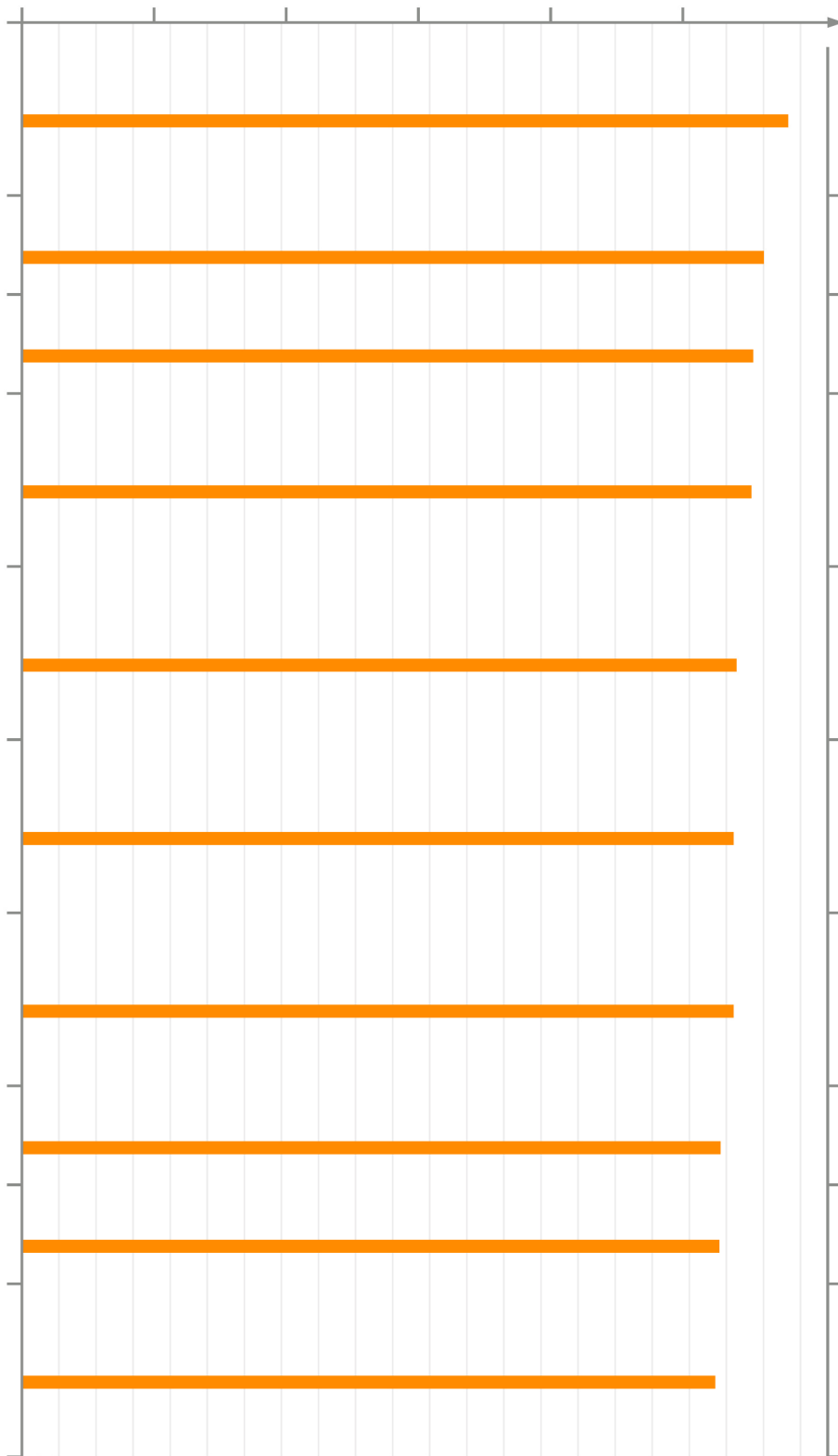
9

9. developmental process

10

10. positive regulation of macromolecule
biosynthetic process

Processes



K

1 2 3 4 5

-log(pValue)

*P21 upregulated
molecular functions*

1
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1. voltage-gated potassium channel activity
2. protein binding
3. potassium channel activity
4. basic amino acid transmembrane transporter activity
5. L-ornithine transmembrane transporter activity
6. arginine transmembrane transporter activity
7. L-lysine transmembrane transporter activity
8. core promoter binding
9. histone deacetylase binding
10. potassium ion transmembrane transporter activity

Molecular functions

