

# Top GOTerm of module 1\_black

Term

positive regulation of nucleobase-containing compound metabolic process  
 positive regulation of programmed cell death  
 BMP signaling pathway  
 cellular biosynthetic process  
 cell surface receptor signaling pathway  
 transmembrane receptor protein serine/threonine kinase signaling pathway  
 positive regulation of apoptotic process  
 phosphorylation  
 primary metabolic process  
 response to endogenous stimulus  
 regulation of primary metabolic process  
 regulation of macromolecule metabolic process  
 positive regulation of biological process  
 regulation of metabolic process  
 chromosome condensation  
 regulation of biological process  
 cellular macromolecule metabolic process  
 cell adhesion  
 biological adhesion  
 positive regulation of macromolecule metabolic process  
 protein phosphorylation  
 regulation of protein metabolic process  
 regulation of phosphorylation  
 positive regulation of cellular metabolic process  
 fasciculation of sensory neuron axon  
 positive regulation of metabolic process  
 positive regulation of BMP signaling pathway  
 positive regulation of hydrolase activity  
 positive regulation of cellular process  
 regulation of cell junction assembly  
 regulation of catalytic activity  
 regulation of phosphorus metabolic process  
 regulation of phosphate metabolic process  
 regulation of nitrogen compound metabolic process  
 nitrogen compound metabolic process  
 cell cycle process  
 regulation of developmental process  
 regulation of protein modification process  
 negative regulation of cell projection organization  
 regulation of protein phosphorylation  
 negative regulation of cellular process  
 cell cycle  
 negative regulation of biological process  
 regulation of molecular function  
 regulation of hydrolase activity  
 positive regulation of nitrogen compound metabolic process  
 negative regulation of neuron projection development  
 regulation of cellular component organization  
 enzyme linked receptor protein signaling pathway  
 negative regulation of cellular component organization

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6

$-\log_{10}(P.DE)$

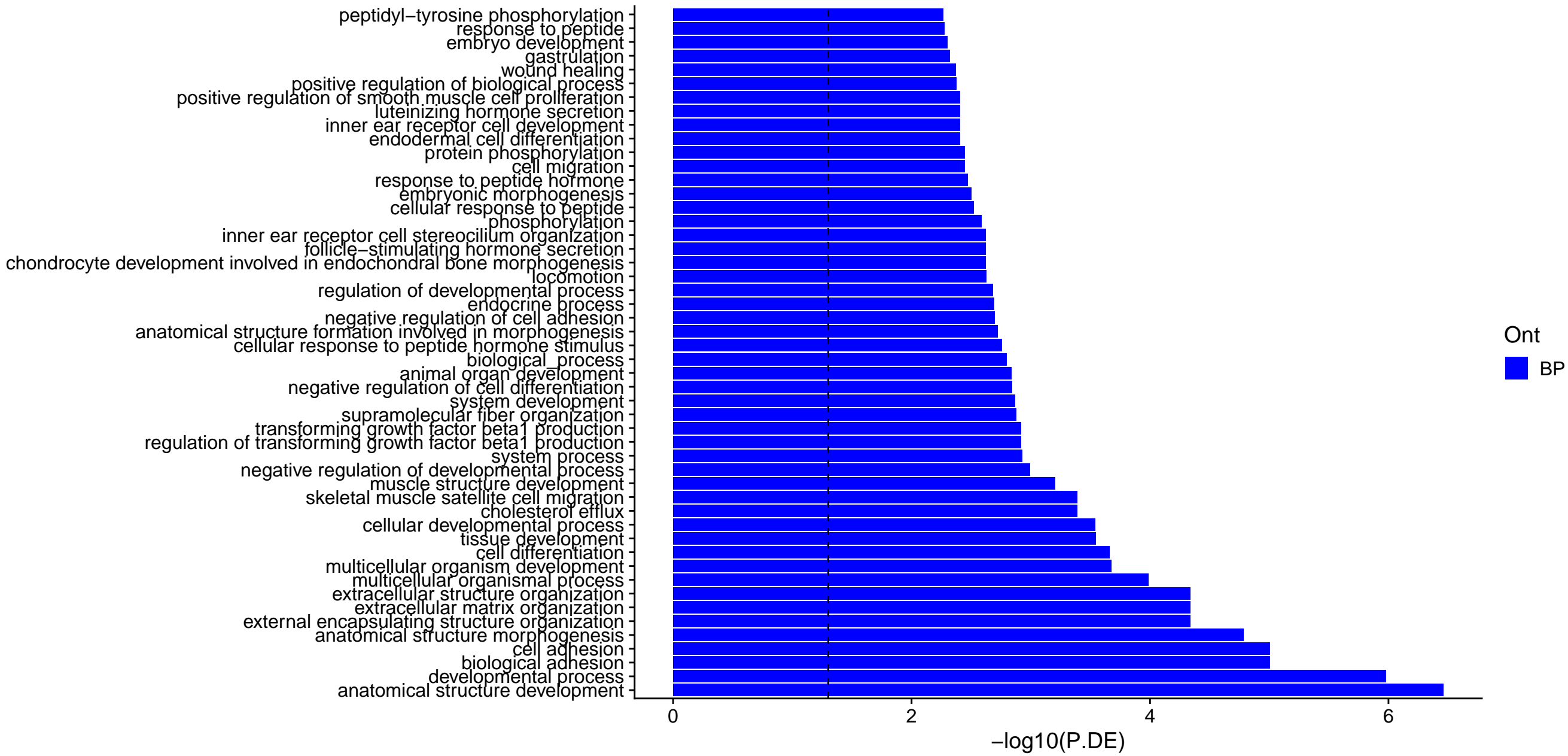
Ont

BP



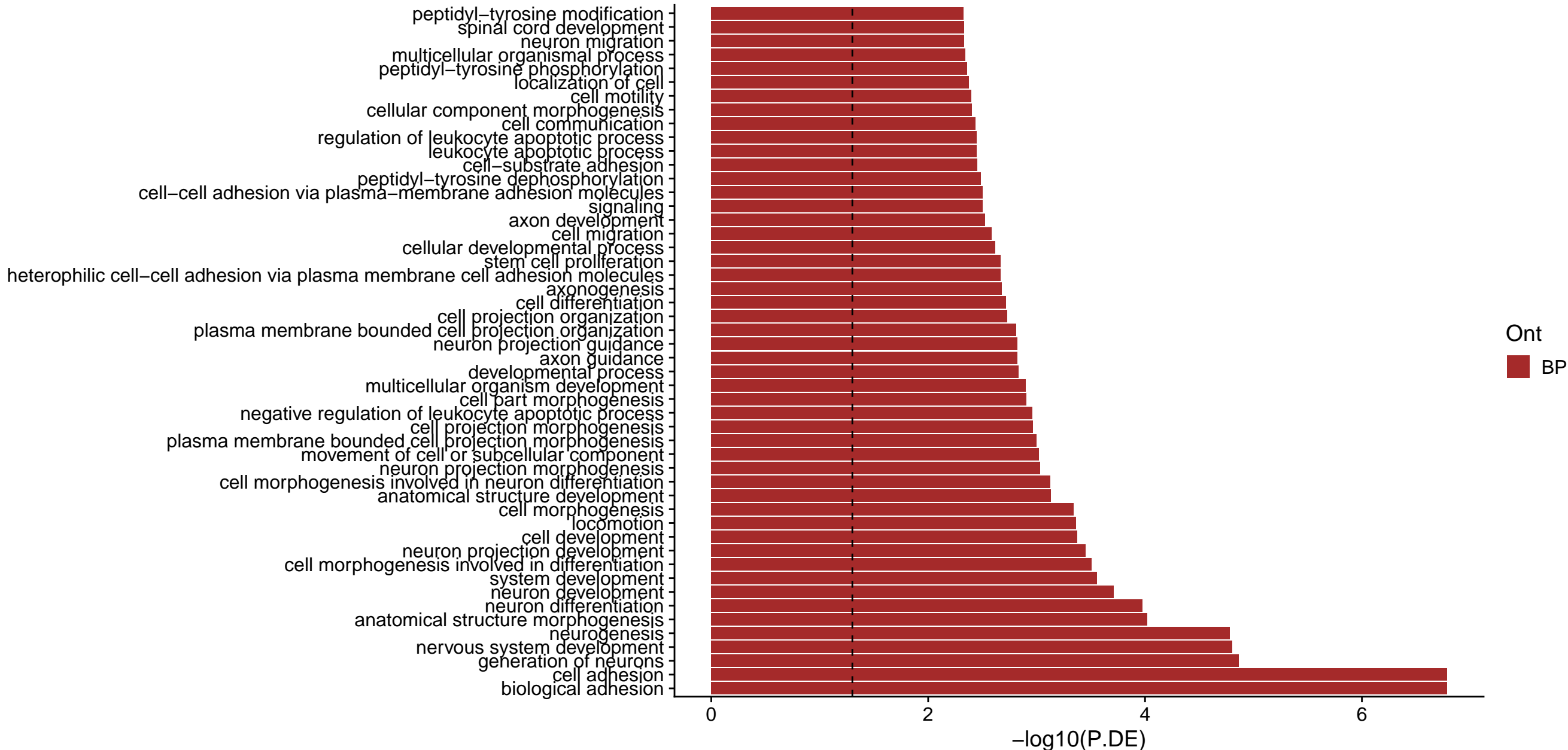
Top GOTerm of module 2\_blue

Term



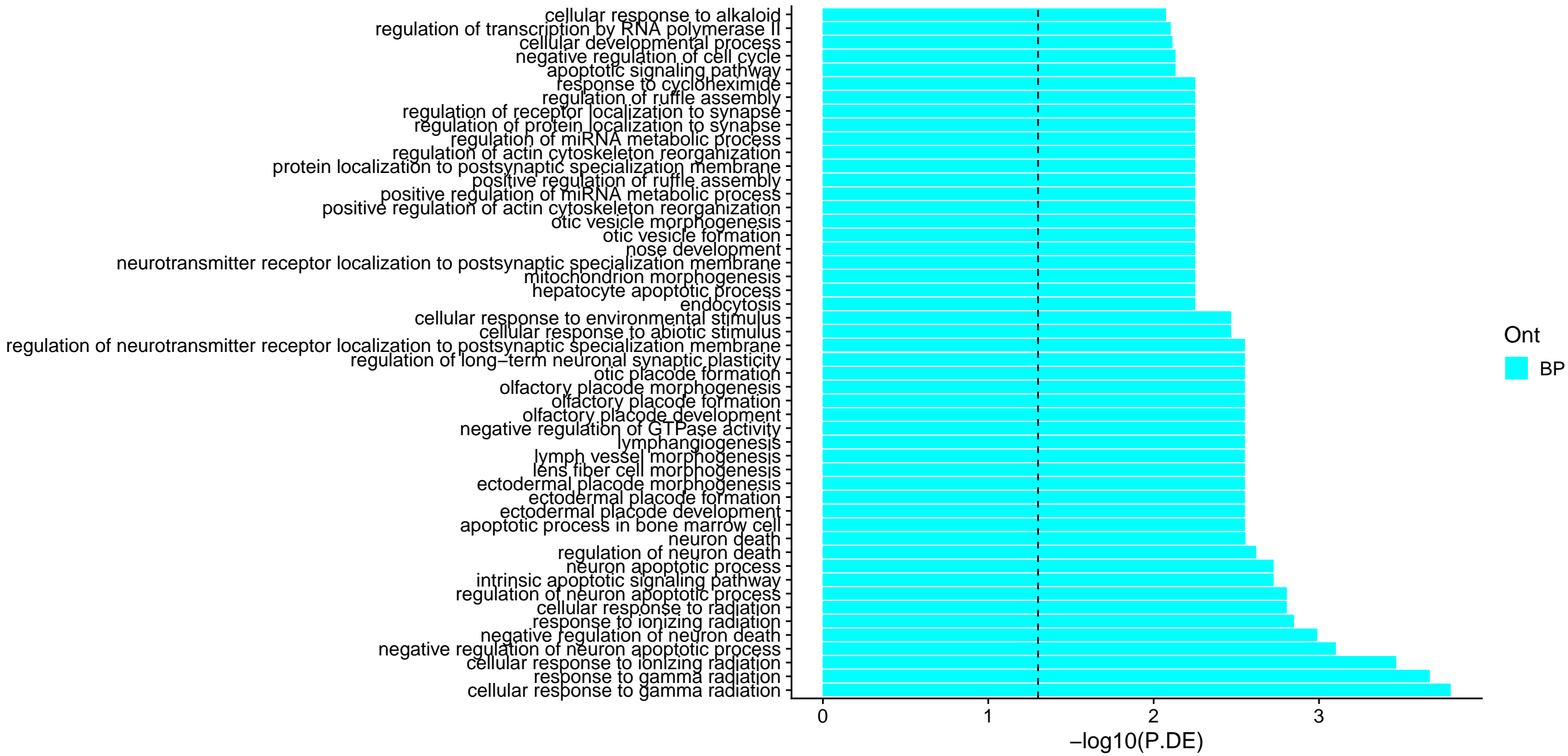
# Top GOTerm of module 3\_brown

Term



Top GOTerm of module 4\_cyan

Term



# Top GOTerm of module 5\_darkgreen

Term

axon ensheathment  
negative regulation of protein serine/threonine kinase activity  
negative regulation of neuron differentiation  
regulation of phosphorylation  
cell differentiation in spinal cord  
regulation of fibroblast growth factor receptor signaling pathway  
positive regulation of animal organ morphogenesis  
oligodendrocyte differentiation  
neuron fate commitment  
negative regulation of MAPK cascade  
diencephalon development  
animal organ formation  
animal organ morphogenesis  
positive regulation of developmental process  
enzyme linked receptor protein signaling pathway  
regulation of gliogenesis  
developmental induction  
cranial skeletal system development  
positive regulation of multicellular organismal process  
spinal cord motor neuron differentiation  
regulation of glial cell differentiation  
response to chemical  
specification of animal organ identity  
positive regulation of gliogenesis  
negative regulation of small GTPase mediated signal transduction  
negative regulation of Ras protein signal transduction  
negative regulation of MAP kinase activity  
negative regulation of fibroblast growth factor receptor signaling pathway  
embryonic cranial skeleton morphogenesis  
regulation of transferase activity  
animal organ development  
regulation of animal organ formation  
platelet-derived growth factor receptor signaling pathway  
organ induction  
negative regulation of ERK1 and ERK2 cascade  
regulation of kinase activity  
regulation of oligodendrocyte differentiation  
positive regulation of glial cell differentiation  
transmembrane receptor protein tyrosine kinase signaling pathway  
cell surface receptor signaling pathway  
positive regulation of oligodendrocyte differentiation  
glial cell fate commitment  
ciliary neurotrophic factor-mediated signaling pathway  
thalamus development  
spinal cord oligodendrocyte cell fate specification  
spinal cord oligodendrocyte cell differentiation  
platelet-derived growth factor receptor-alpha signaling pathway  
oligodendrocyte cell fate specification  
oligodendrocyte cell fate commitment  
glial cell fate specification

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$-\log_{10}(P.DE)$

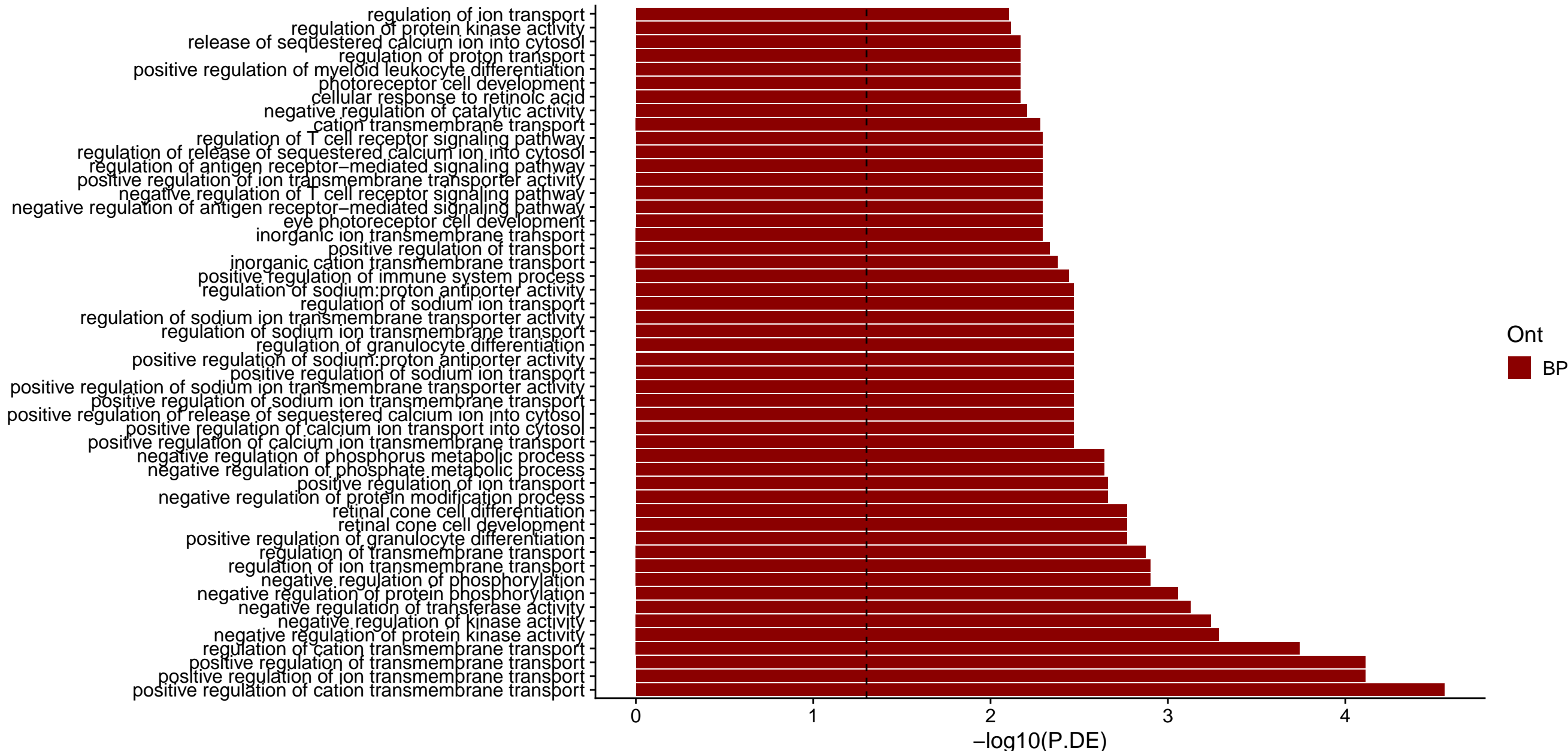
Ont

BP



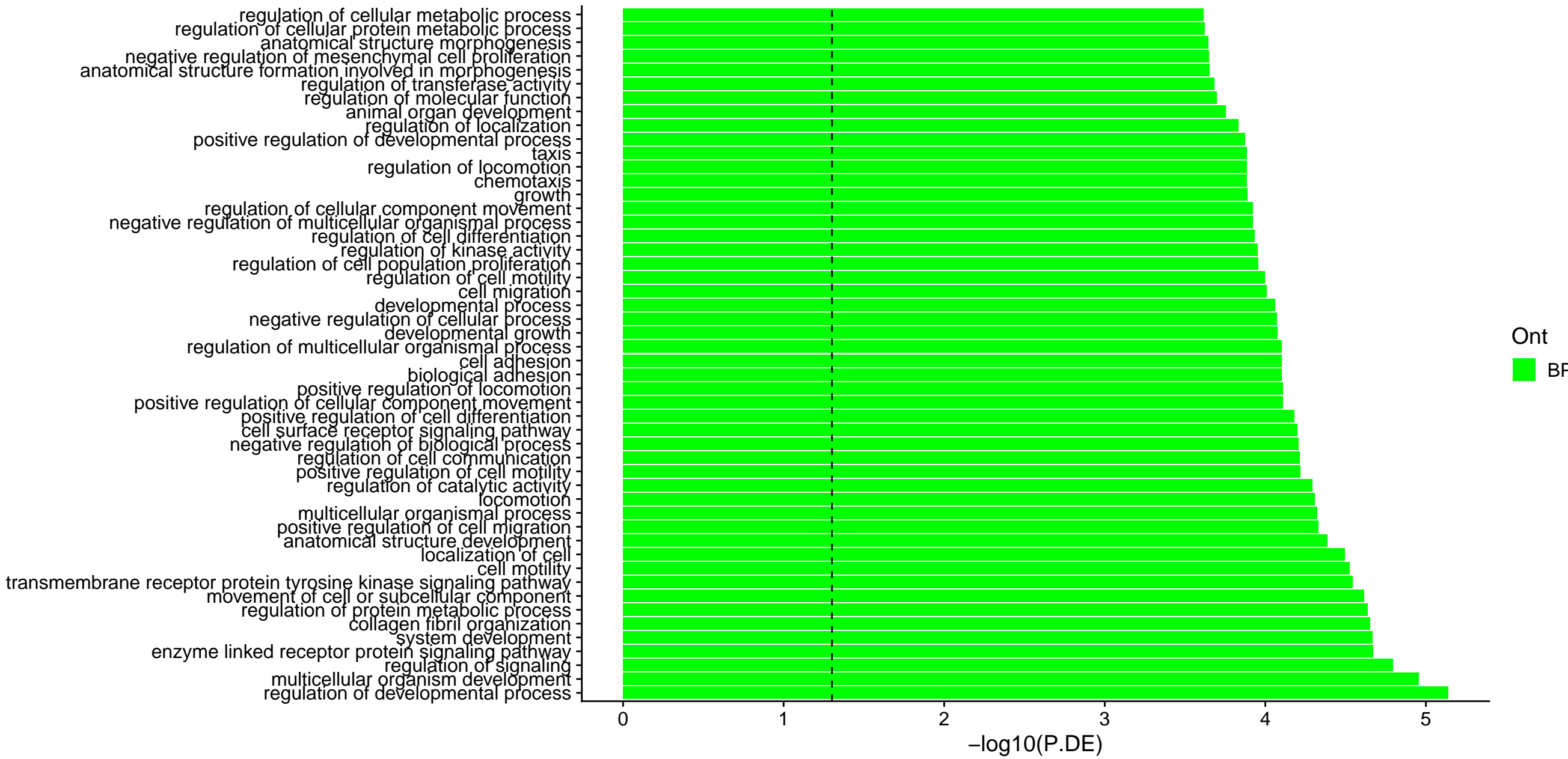
# Top GOTerm of module 6\_darkred

Term



Top GOTerm of module 7\_green

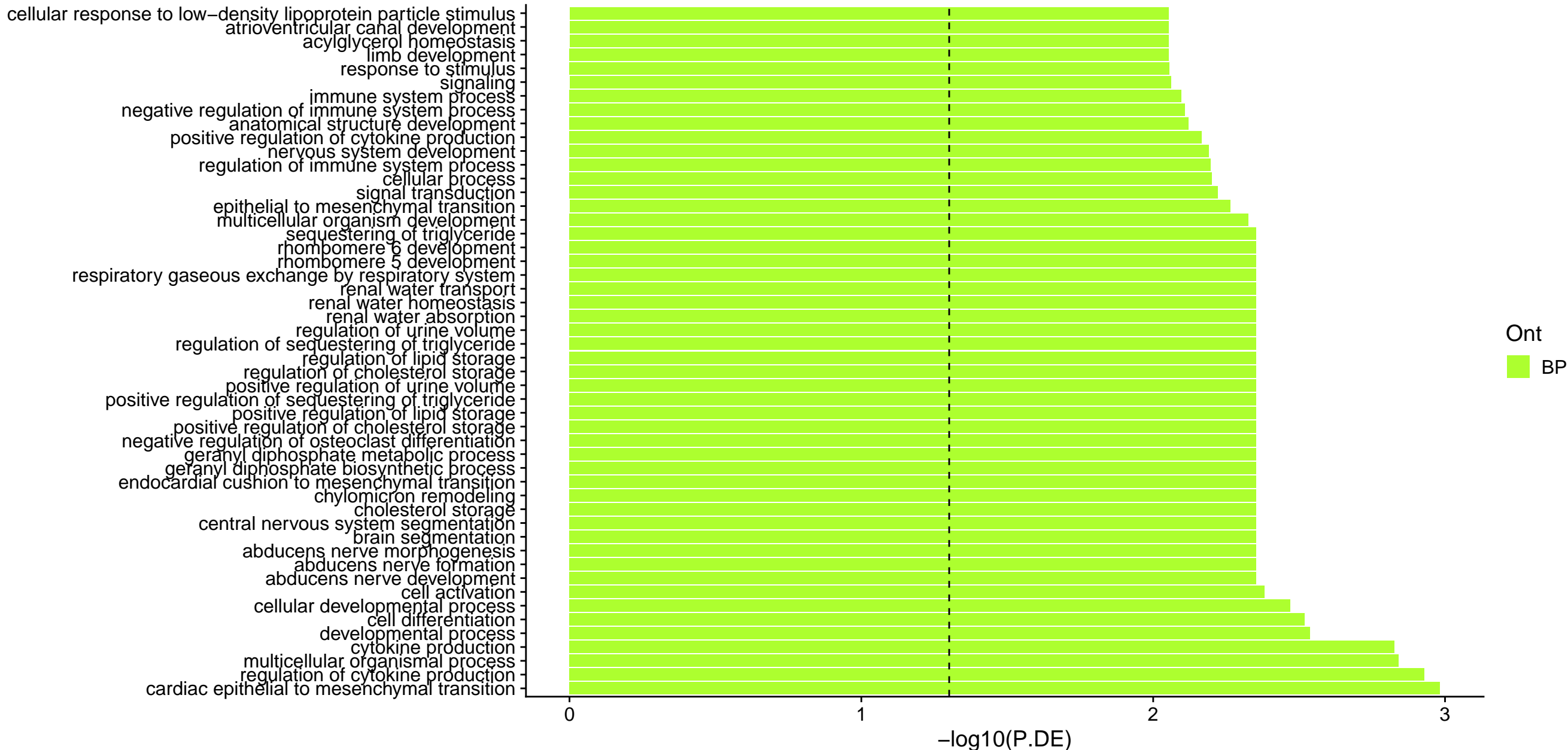
Term





# Top GOTerm of module 8\_greenyellow

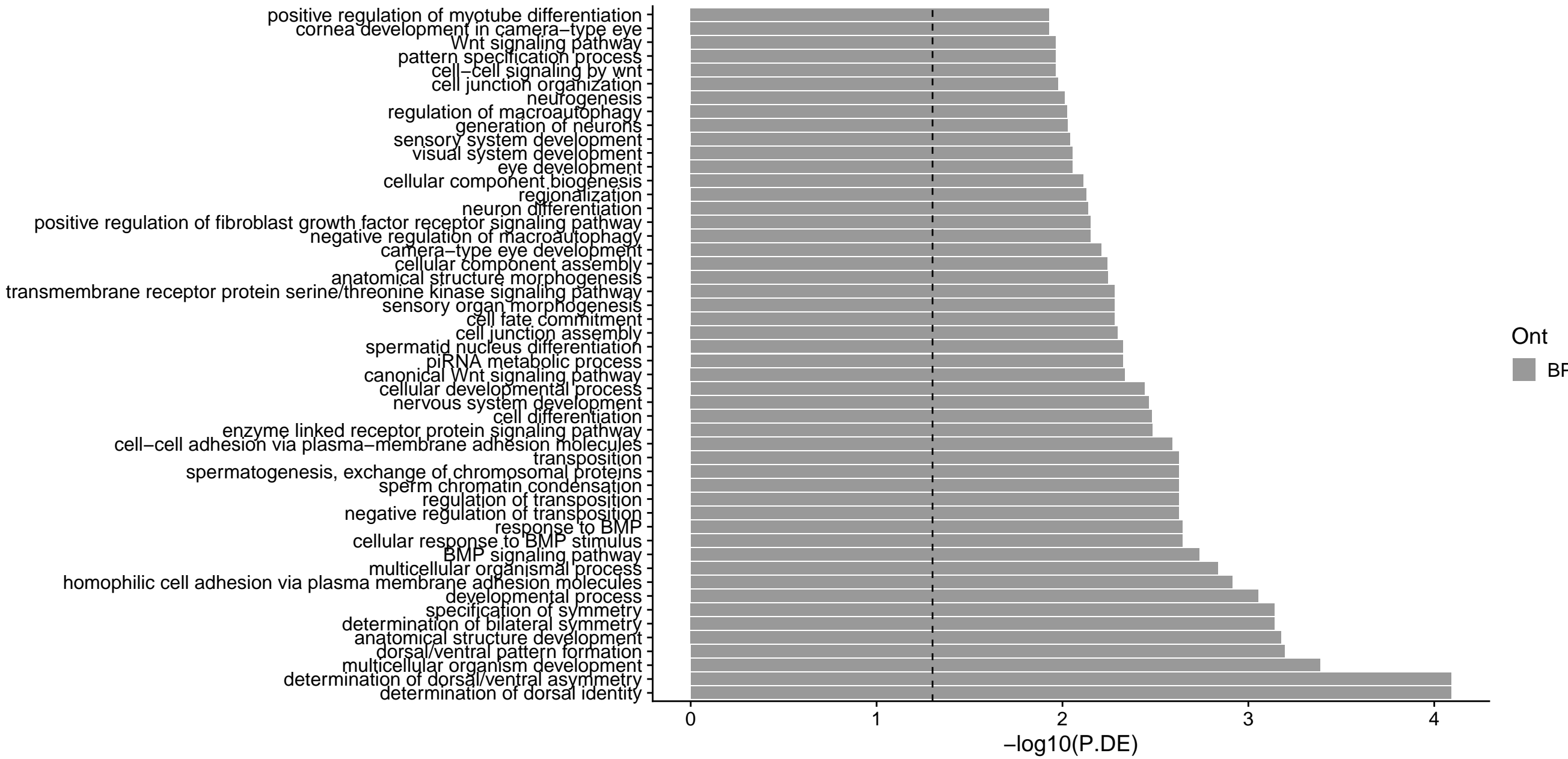
Term





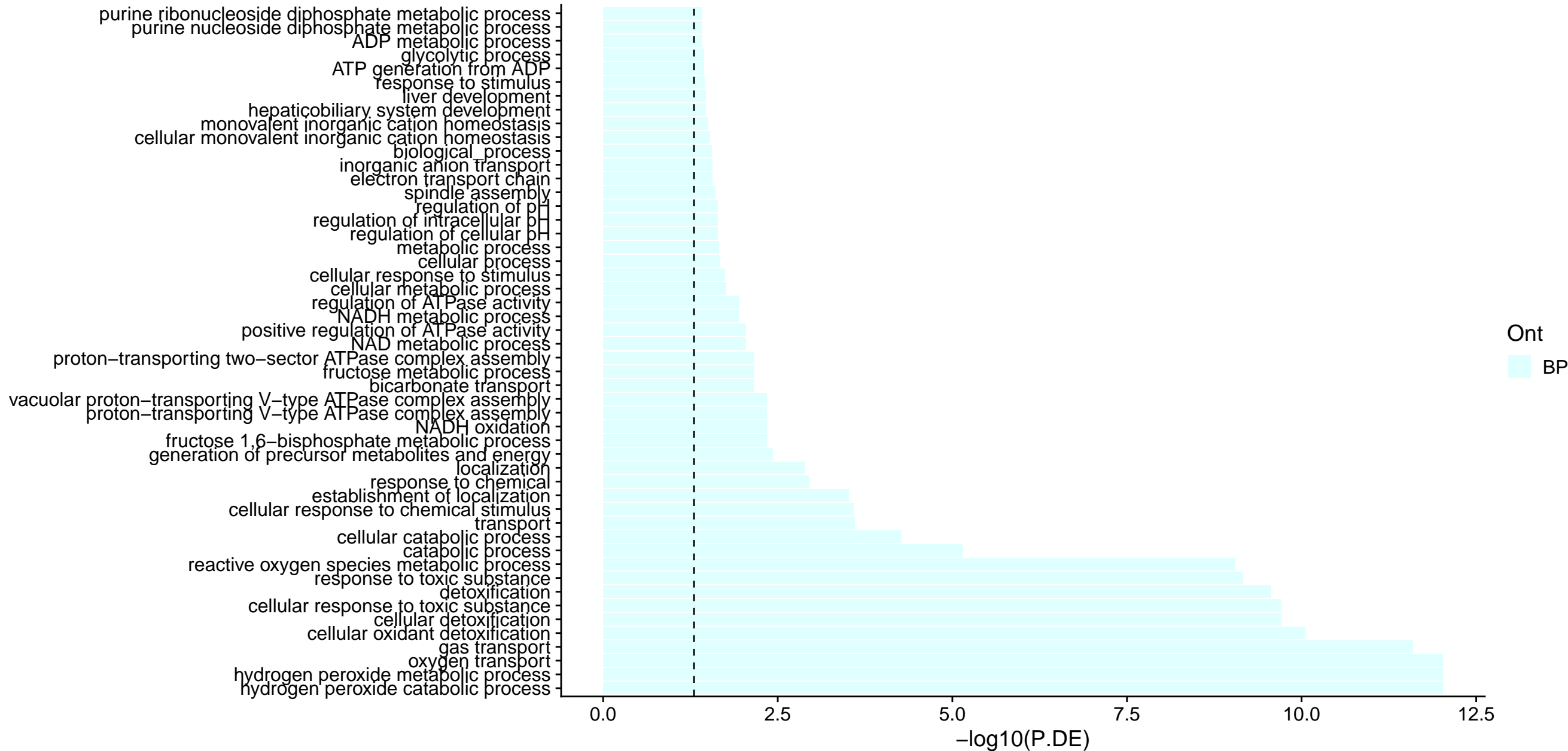
Top GOTerm of module 9\_grey60

Term



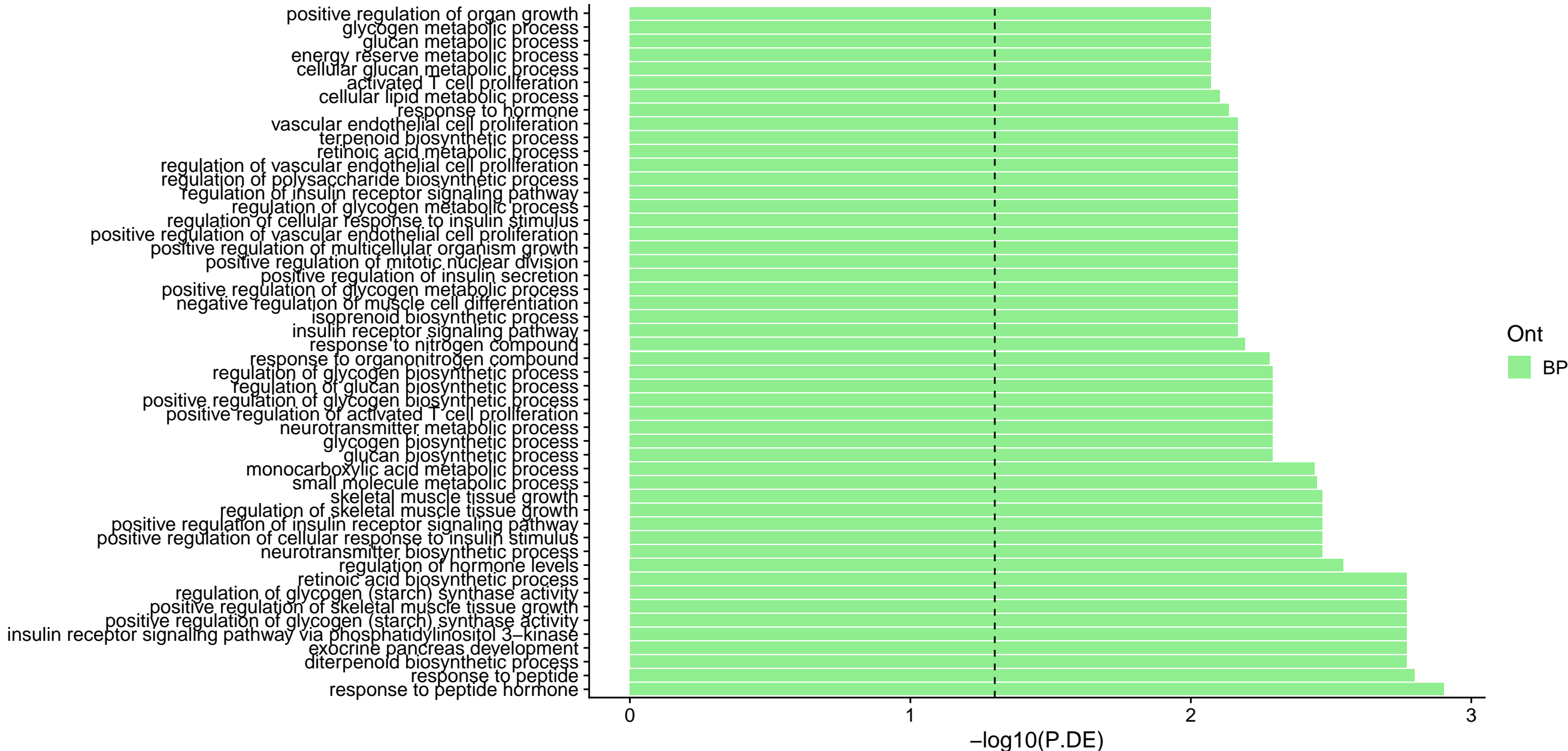
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Term



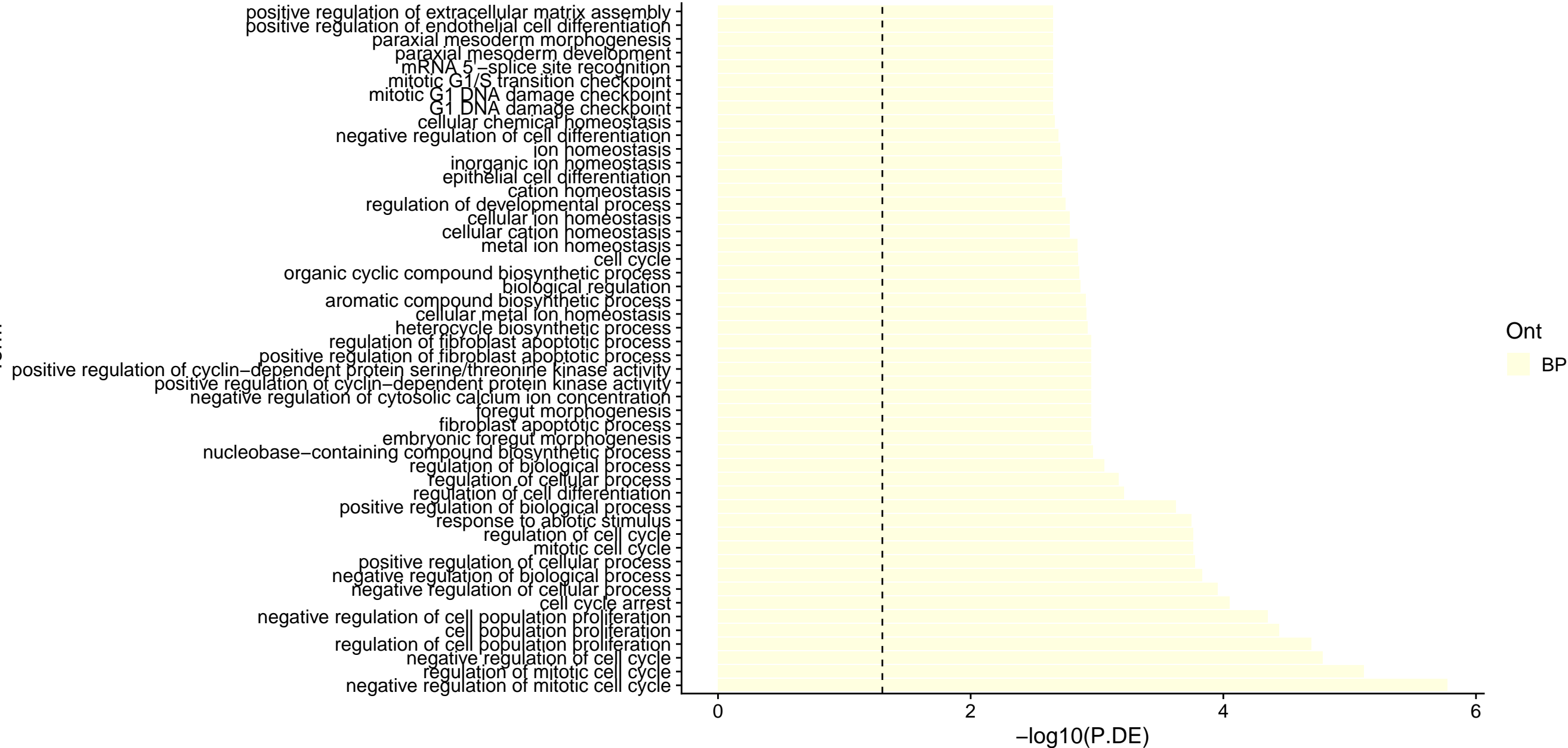
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Term



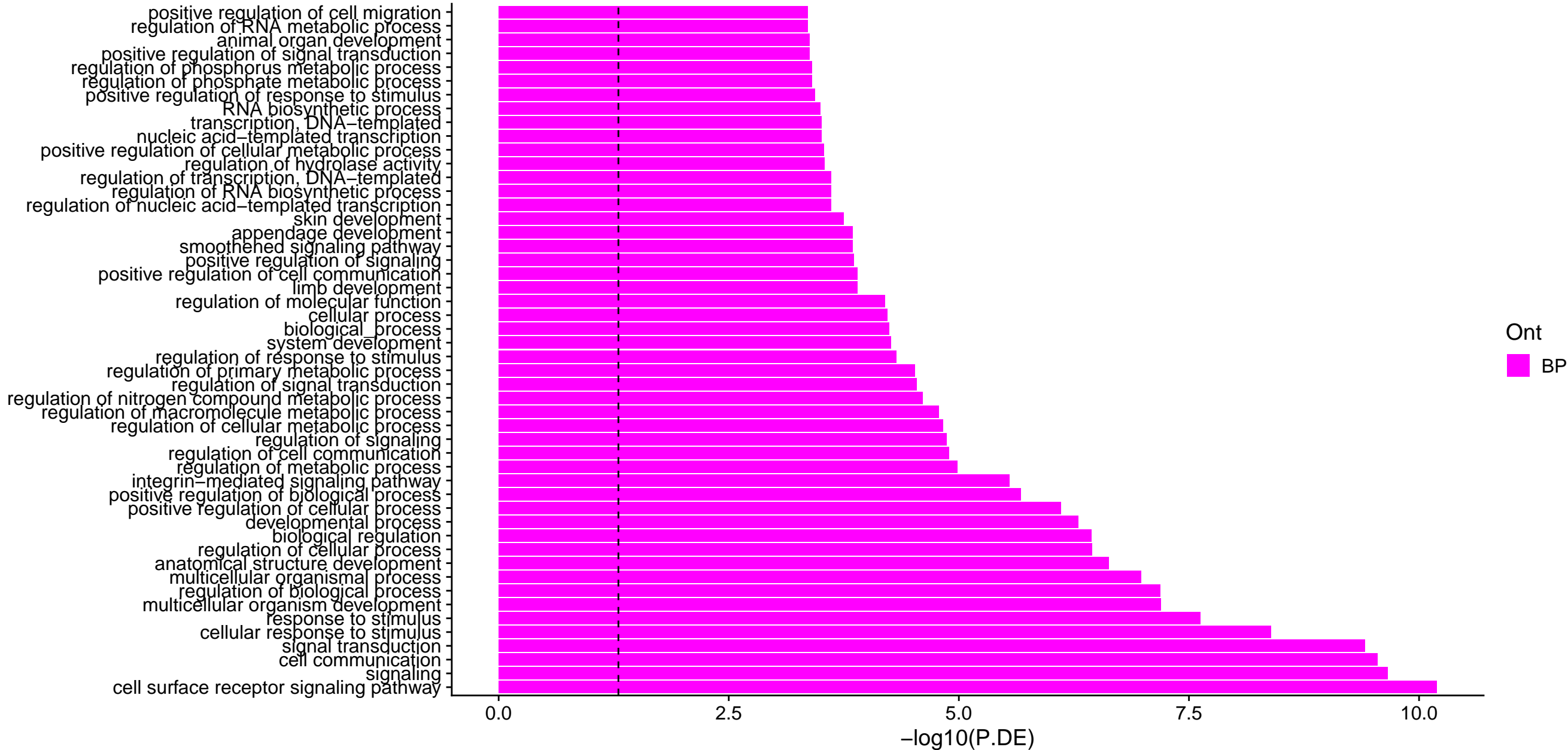
# Top GOTerm of module 12\_lightyellow

Term



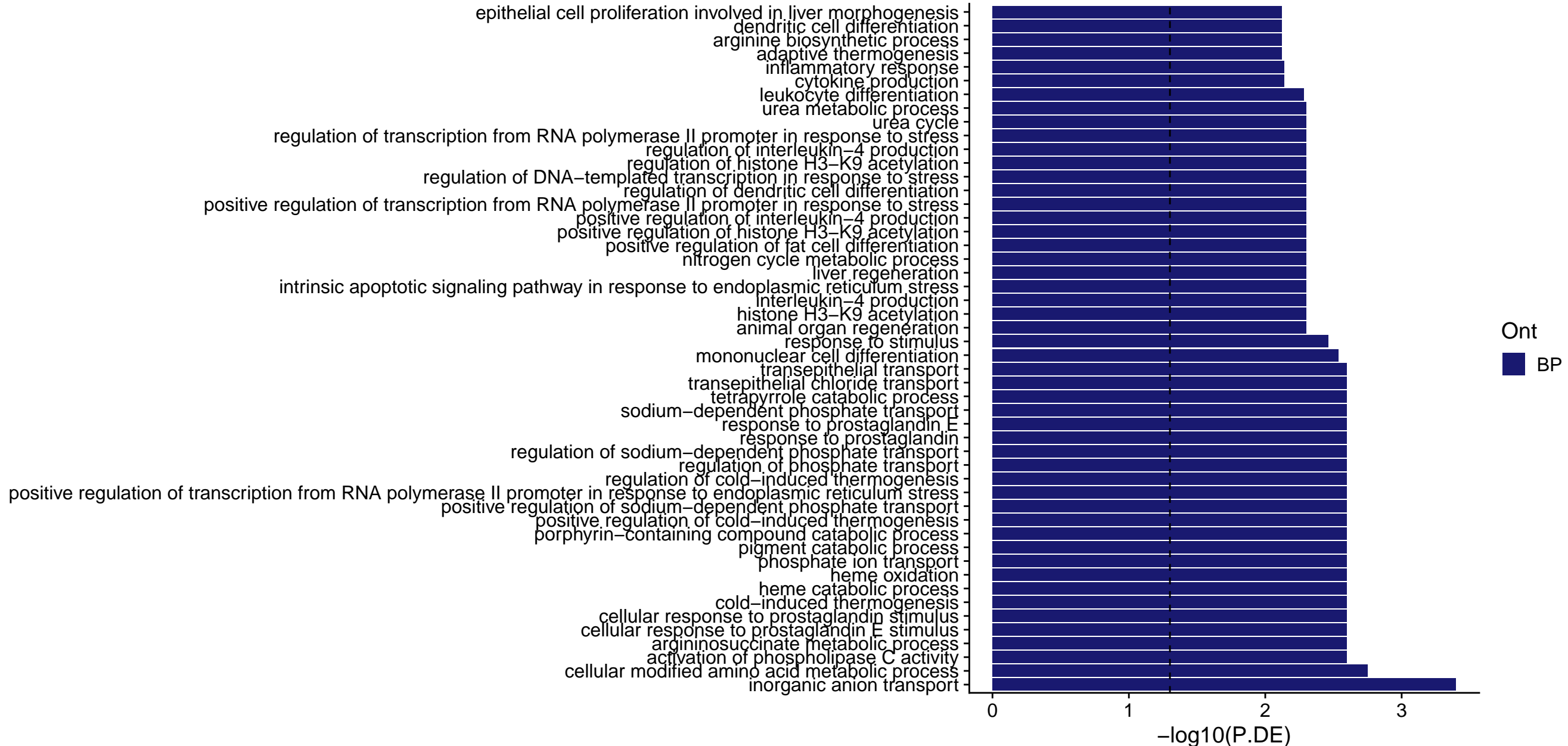
# Top GOTerm of module 13\_magenta

Term



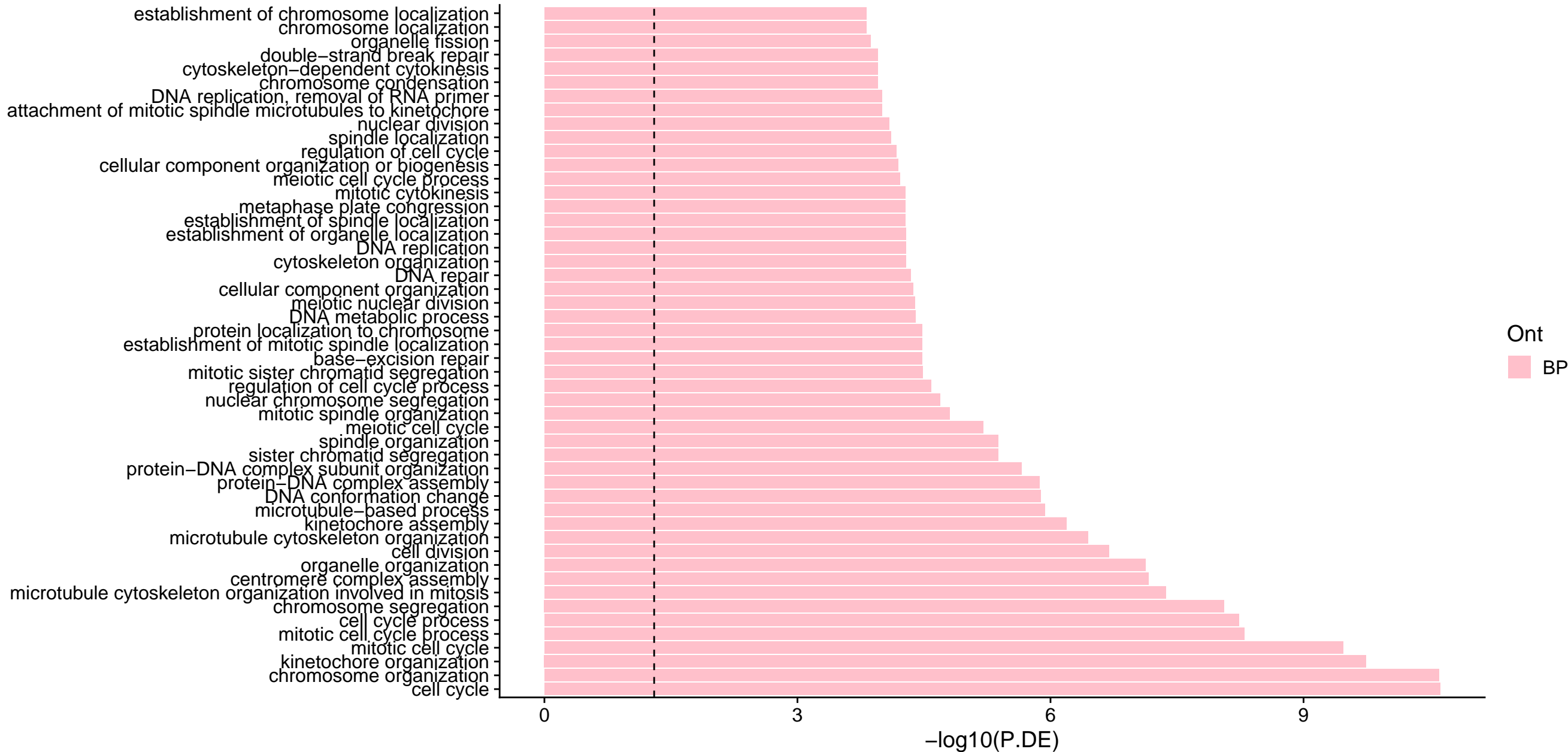
# Top GOTerm of module 14\_midnightblue

Term



# Top GOTerm of module 15\_pink

Term





# Top GOTerm of module 16\_purple

Term

transcription by RNA polymerase II  
blood vessel morphogenesis  
regulation of transcription by RNA polymerase II  
negative regulation of cellular process  
ear morphogenesis  
thrombin-activated receptor signaling pathway  
semicircular canal morphogenesis  
response to interleukin-8  
renal system process involved in regulation of systemic arterial blood pressure  
renal system process involved in regulation of blood volume  
renal filtration  
regulation of renal system process  
regulation of oxidative stress-induced intrinsic apoptotic signaling pathway  
regulation of mucus secretion  
regulation of glomerular filtration  
protein localization to bicellular tight junction  
positive regulation of establishment of endothelial barrier  
positive regulation of endothelial cell development  
positive regulation of DNA repair by transcription from RNA polymerase II promoter  
negative regulation of oxidative stress-induced intrinsic apoptotic signaling pathway  
negative regulation of mucus secretion  
negative regulation of long-term synaptic depression  
mucus secretion  
glomerular filtration  
ectodermal cell fate commitment  
coronary artery morphogenesis  
cellular response to interleukin-8  
negative regulation of cytoskeleton organization  
inner ear morphogenesis  
negative regulation of protein polymerization  
negative regulation of signaling  
negative regulation of cell communication  
cell communication  
tube development  
regulation of signal transduction  
regulation of BMP signaling pathway  
negative regulation of defense response  
regulation of response to stimulus  
regulation of response to stress  
tube morphogenesis  
regulation of body fluid levels  
negative regulation of inflammatory response  
regulation of signaling  
cell surface receptor signaling pathway  
regulation of cell communication  
negative regulation of response to stimulus  
purinergic nucleotide receptor signaling pathway  
multicellular organismal process  
artery development  
artery morphogenesis

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$-\log_{10}(P.DE)$

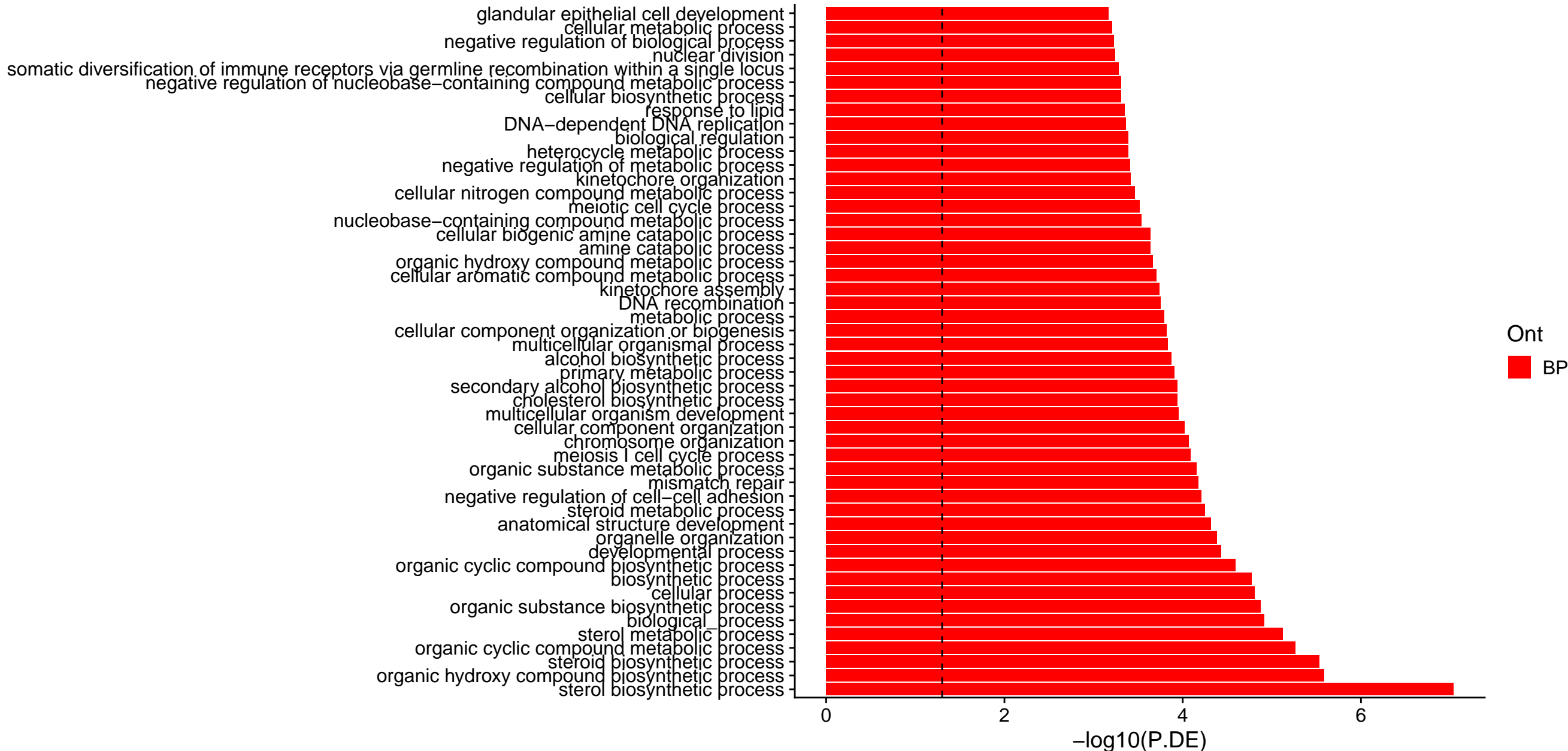
Ont

BP



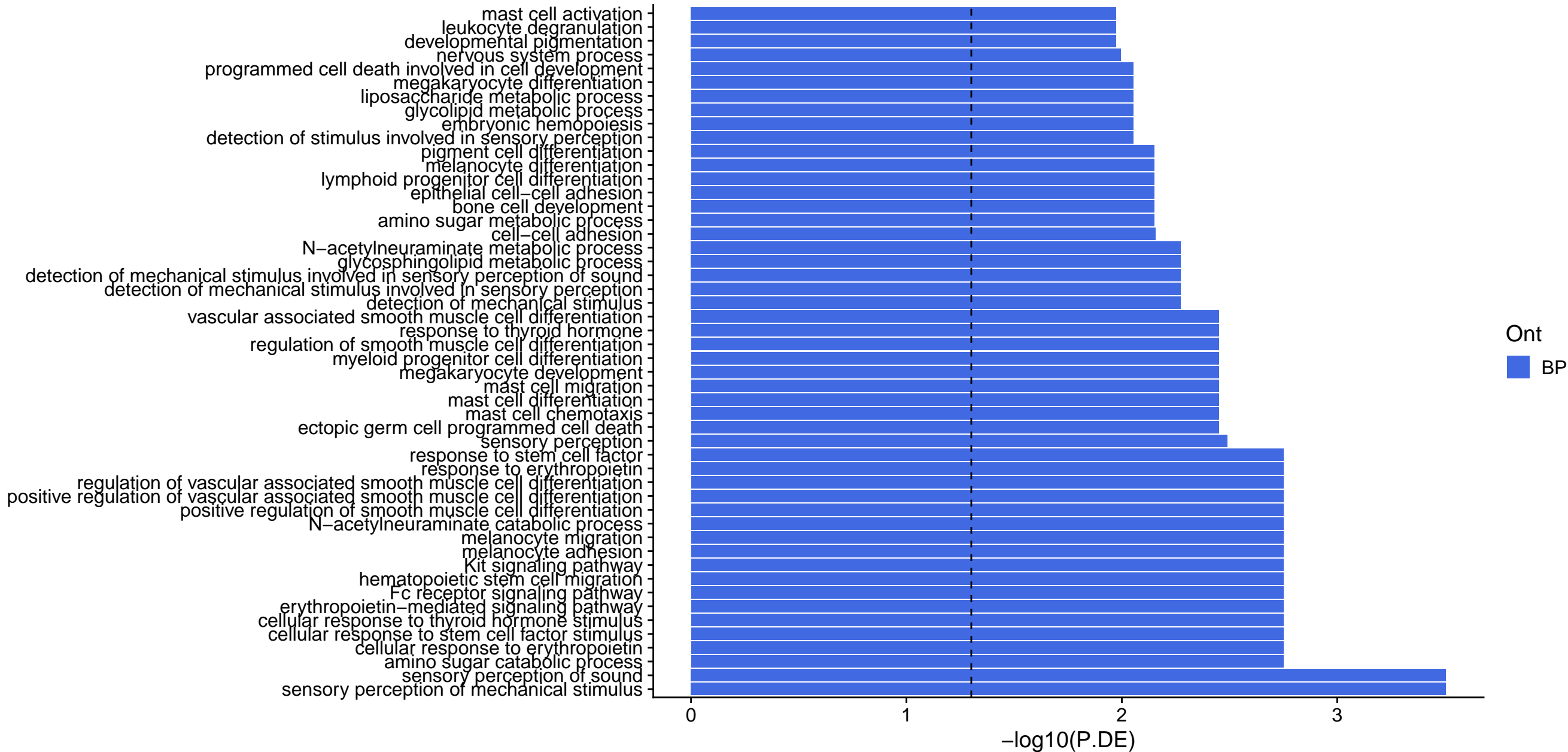
# Top GOTerm of module 17\_red

Term



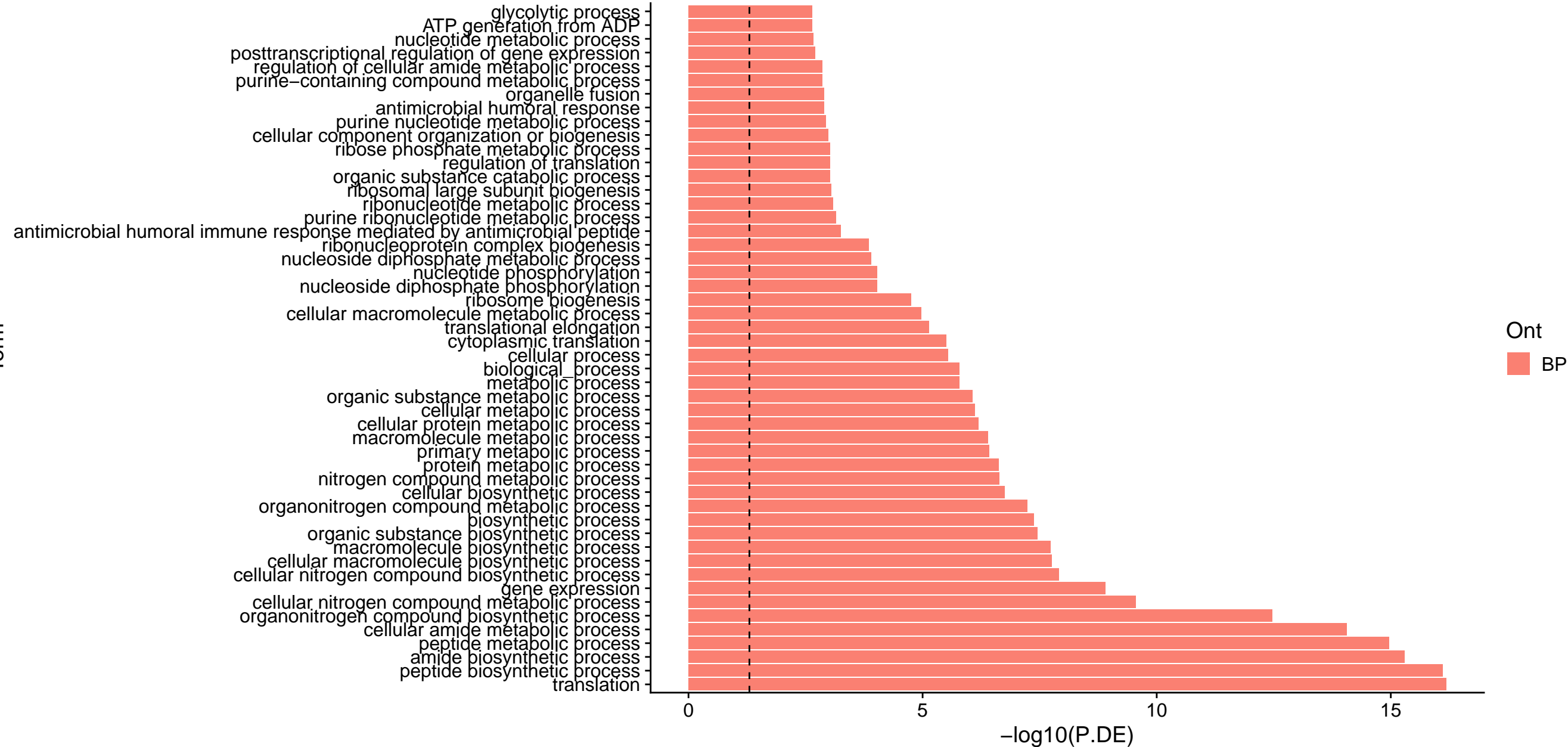
# Top GOTerm of module 18\_royalblue

Term



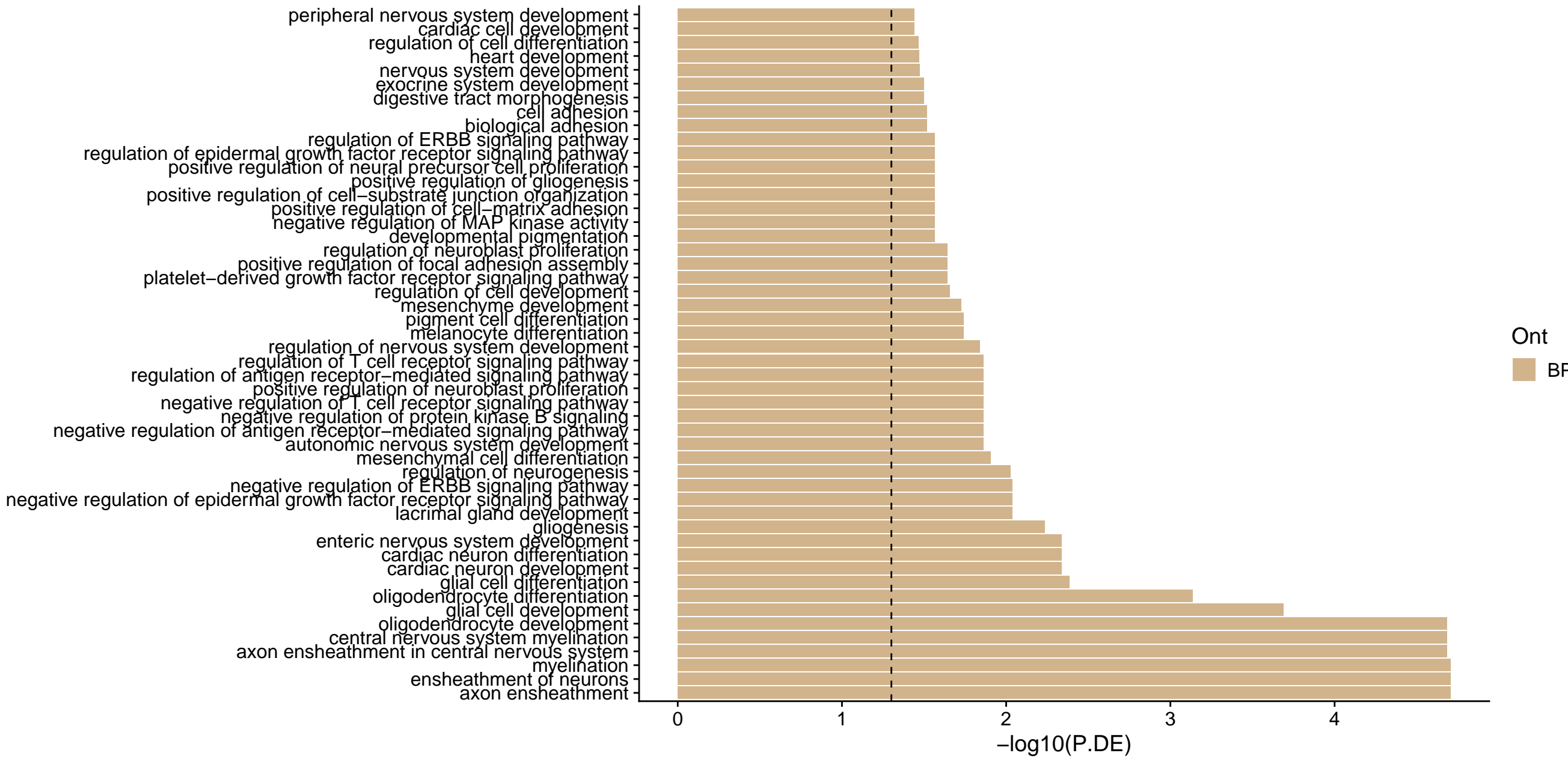
# Top GOTerm of module 19\_salmon

Term



Top GOTerm of module 20\_tan

Term



# Top GOTerm of module 21\_turquoise

Term

regulation of axon extension  
microtubule polymerization or depolymerization  
dendrite development  
postsynaptic cytoskeleton organization  
postsynaptic actin cytoskeleton organization  
vesicle-mediated transport in synapse  
neuron projection extension  
regulation of cell projection organization  
movement of cell or subcellular component  
locomotion  
regulation of plasma membrane bounded cell projection organization  
post-embryonic development  
regulation of microtubule polymerization or depolymerization  
regulation of cytoskeleton organization  
cellular component organization or biogenesis  
cellular component organization  
taxis  
chemotaxis  
regulation of cellular component organization  
multicellular organismal process  
cell junction organization  
cell morphogenesis  
neuron projection guidance  
axon guidance  
cellular developmental process  
cell differentiation  
anatomical structure development  
cytoskeleton organization  
cellular component morphogenesis  
developmental process  
cell morphogenesis involved in differentiation  
multicellular organism development  
cell part morphogenesis  
cell projection morphogenesis  
plasma membrane bounded cell projection morphogenesis  
neuron projection morphogenesis  
synapse organization  
axonogenesis  
cell morphogenesis involved in neuron differentiation  
system development  
cell development  
axon development  
cell projection organization  
plasma membrane bounded cell projection organization  
neuron development  
neuron projection development  
neurogenesis  
generation of neurons  
neuron differentiation  
nervous system development

0

5

10

15

$-\log_{10}(P.DE)$

Ont

BP



# Top GO Term of module 22\_yellow

Term

