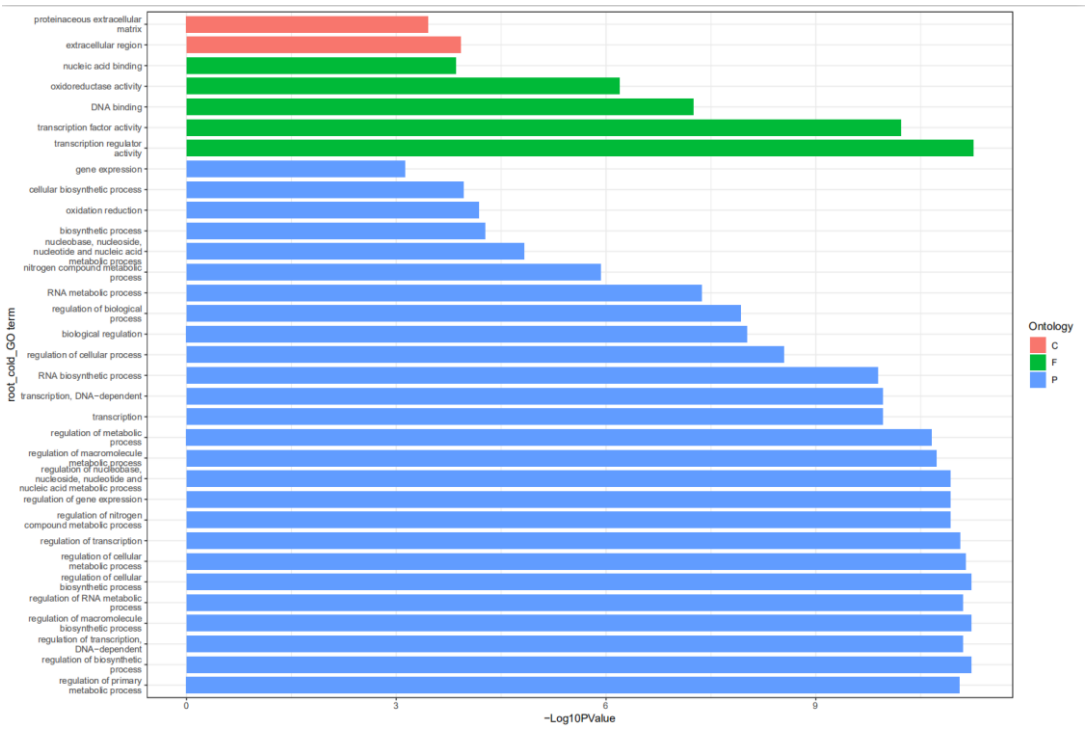
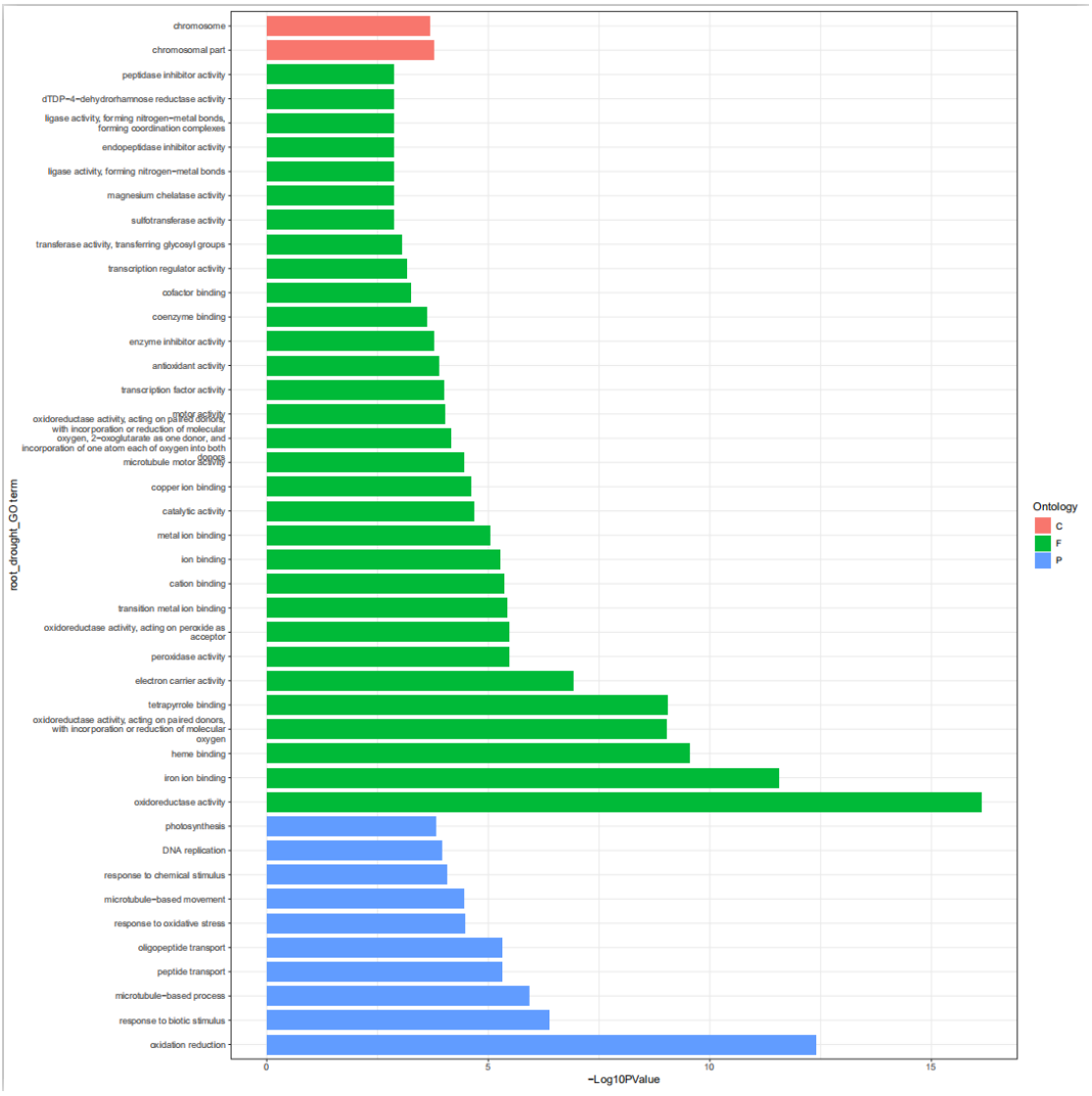
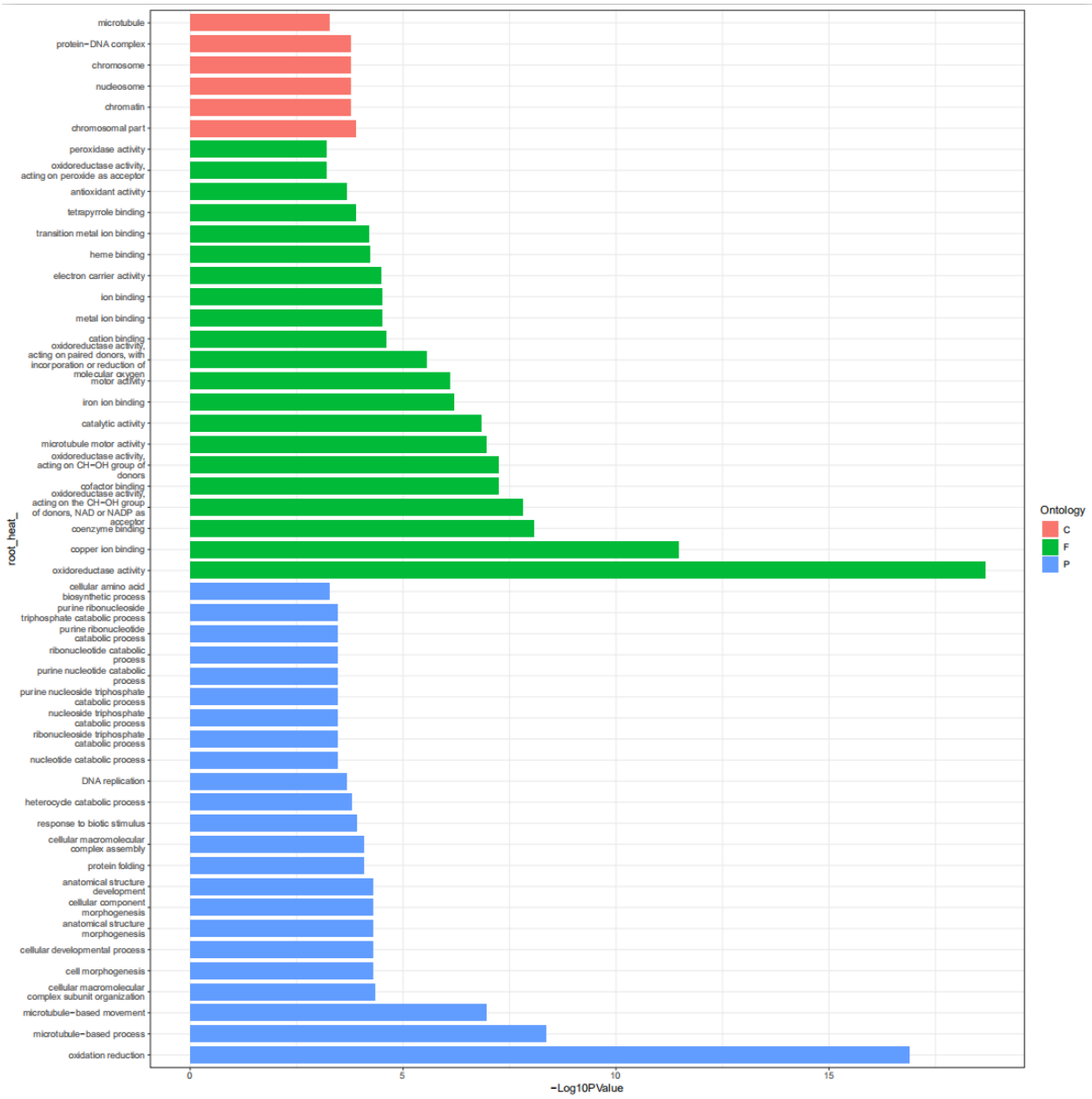
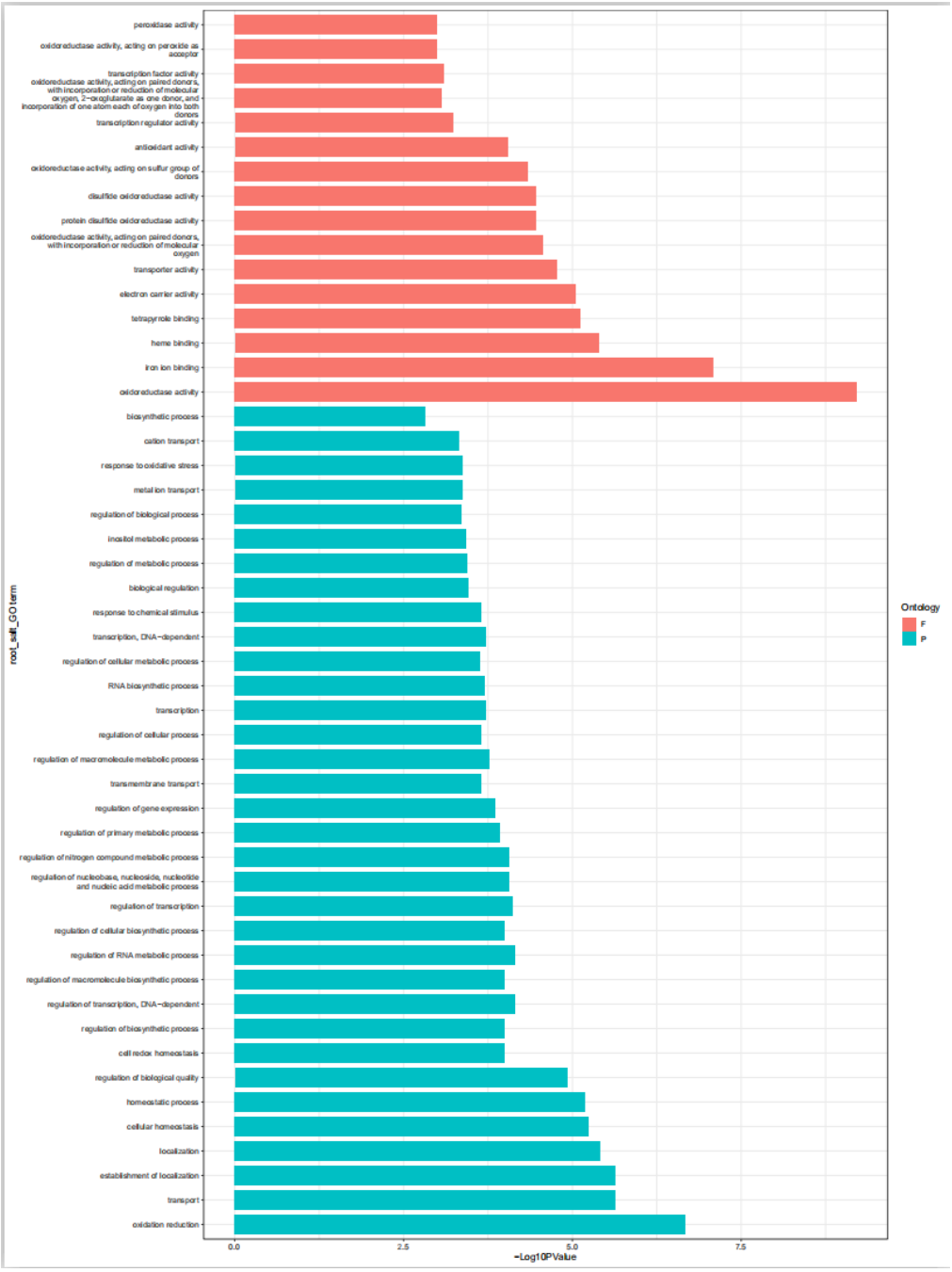
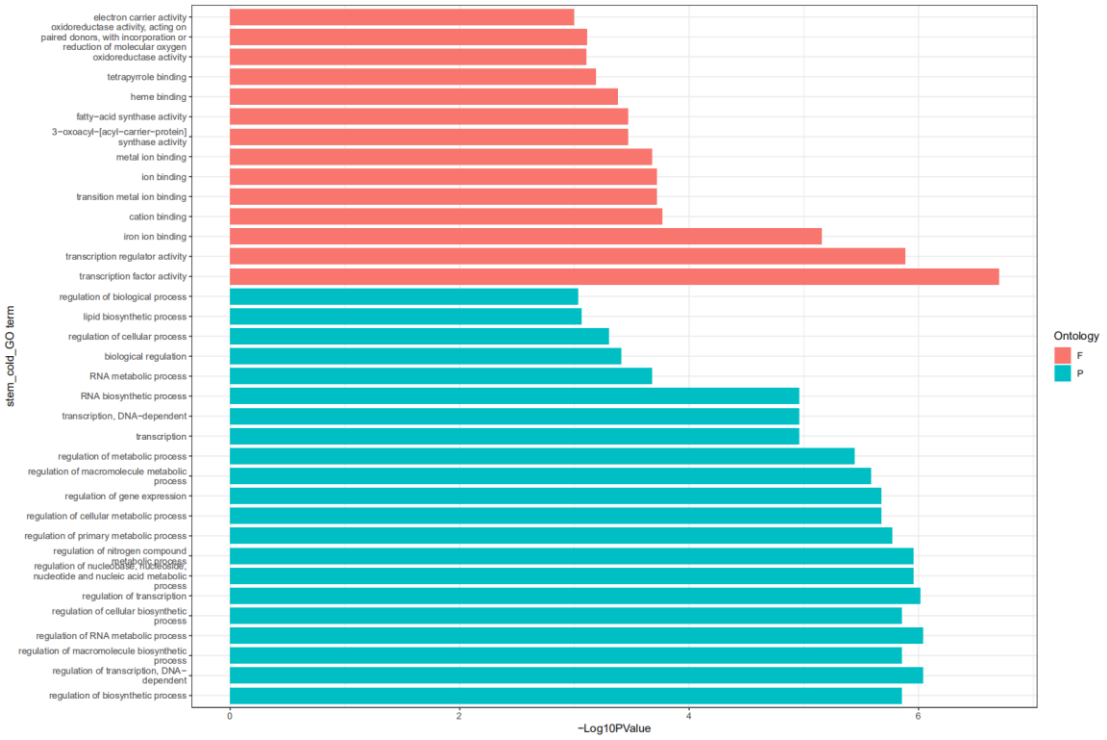
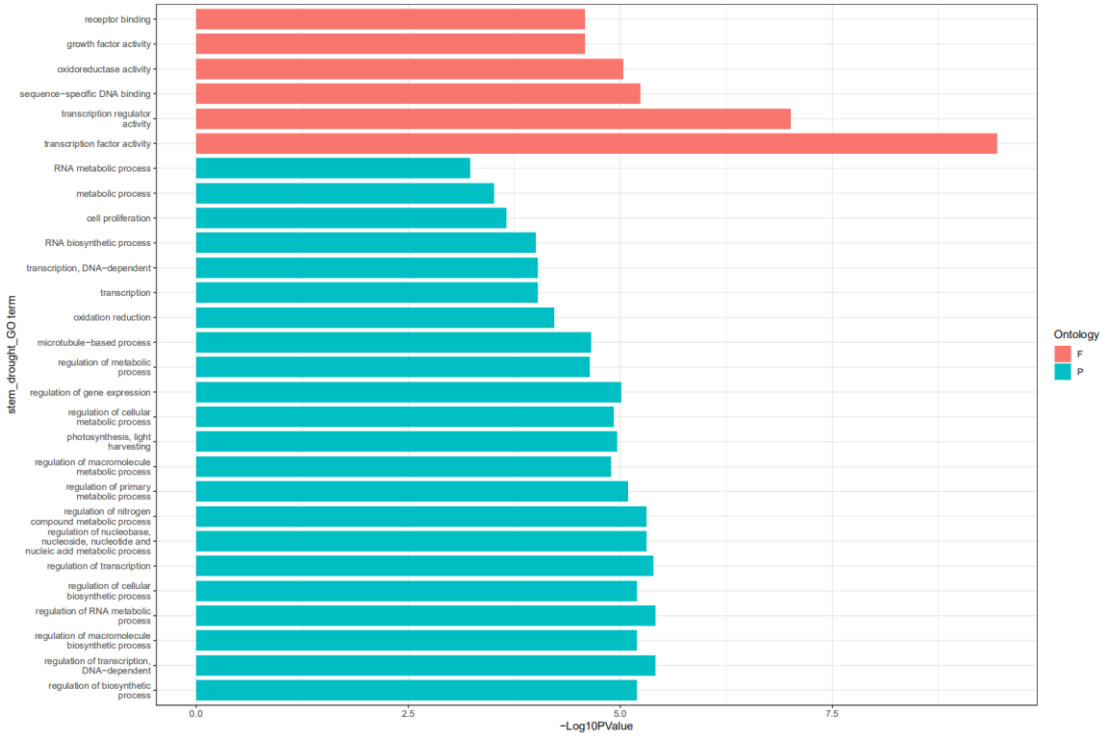

proteinaceous extracellular matrix
extracellular region
nucleic acid binding
oxidoreductase activity
DNA binding
transcription factor activity
transcription regulator activity
gene expression
cellular biosynthetic process
oxidation reduction
biosynthetic process
nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
nitrogen compound metabolic process
RNA metabolic process
regulation of biological process
biological regulation
regulation of cellular process
RNA biosynthetic process
transcription, DNA−dependent
transcription
regulation of metabolic process
regulation of macromolecule metabolic process
regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
regulation of gene expression
regulation of nitrogen compound metabolic process
regulation of transcription
regulation of cellular metabolic process
regulation of cellular biosynthetic process
regulation of RNA metabolic process
regulation of macromolecule biosynthetic process
regulation of transcription, DNA−dependent
regulation of biosynthetic process
regulation of primary metabolic process
root_cold_GO term
0
3
6
9
−Log10PValue
Ontology
C
F
P


chromosome
chromosomal part
peptidase inhibitor activity
dTDP-4-dehydrorhamnose reductase activity
ligase activity, forming nitrogen-metal bonds, forming coordination complexes
endopeptidase inhibitor activity
ligase activity, forming nitrogen-metal bonds
magnesium chelatase activity
sulfotransferase activity
transferase activity, transferring glycosyl groups
transcription regulator activity
cofactor binding
coenzyme binding
enzyme inhibitor activity
antioxidant activity
transcription factor activity
motor activity
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors
microtubule motor activity
copper ion binding
catalytic activity
metal ion binding
ion binding
cation binding
transition metal ion binding
oxidoreductase activity, acting on peroxide as acceptor
peroxidase activity
electron carrier activity
tetrapyrrole binding
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
heme binding
iron ion binding
oxidoreductase activity
photosynthesis
DNA replication
response to chemical stimulus
microtubule-based movement
response to oxidative stress
oligopeptide transport
peptide transport
microtubule-based process
response to biotic stimulus
oxidation reduction
root_drought_GO term
0
5
10
15
−Log10PValue
Ontology
C
F
P

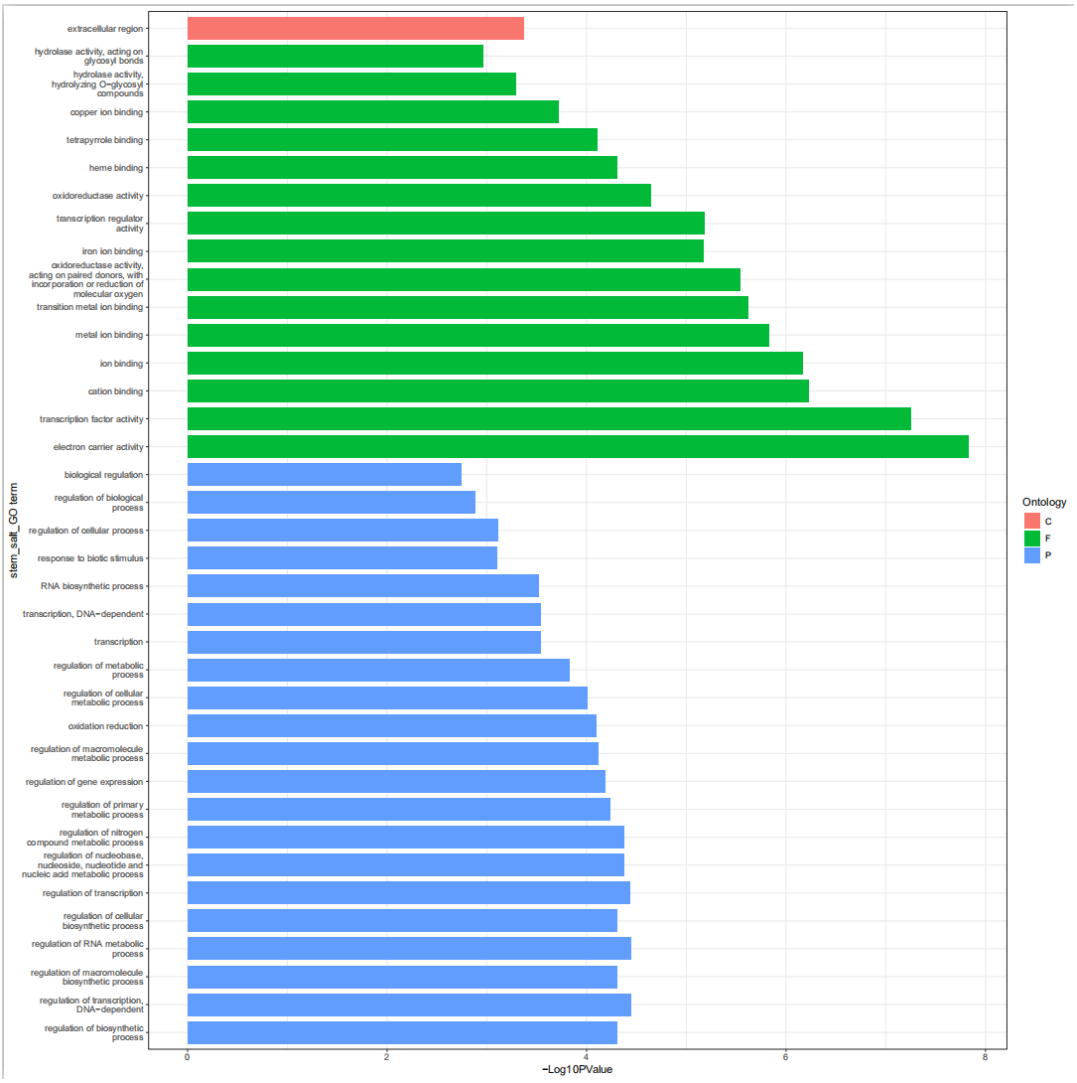

microtubule
protein−DNA complex
chromosome
nucleosome
chromatin
chromosomal part
peroxidase activity
oxidoreductase activity, acting on peroxide as acceptor
antioxidant activity
tetrapyrrole binding
transition metal ion binding
heme binding
electron carrier activity
ion binding
metal ion binding
cation binding
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
motor activity
iron ion binding
catalytic activity
microtubule motor activity
oxidoreductase activity, acting on CH−OH group of donors
cofactor binding
oxidoreductase activity, acting on the CH−OH group of donors, NAD or NADP as acceptor
coenzyme binding
copper ion binding
oxidoreductase activity
cellular amino acid biosynthetic process
purine ribonucleoside triphosphate catabolic process
purine ribonucleotide catabolic process
ribonucleotide catabolic process
purine nucleotide catabolic process
purine nucleoside triphosphate catabolic process
nucleoside triphosphate catabolic process
ribonucleoside triphosphate catabolic process
nucleotide catabolic process
DNA replication
heterocycle catabolic process
response to biotic stimulus
cellular macromolecular complex assembly
protein folding
anatomical structure development
cellular component morphogenesis
anatomical structure morphogenesis
cellular developmental process
cell morphogenesis
cellular macromolecular complex subunit organization
microtubule−based movement
microtubule−based process
oxidation reduction
root_heat_
0
5
10
15
−Log10PValue
Ontology
C
F
P


peroxidase activity
oxidoreductase activity, acting on peroxide as acceptor
transcription factor activity
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors
transcription regulator activity
antioxidant activity
oxidoreductase activity, acting on sulfur group of donors
disulfide oxidoreductase activity
protein disulfide oxidoreductase activity
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
transporter activity
electron carrier activity
tetrapyrrole binding
heme binding
iron ion binding
oxidoreductase activity
biosynthetic process
cation transport
response to oxidative stress
metal ion transport
regulation of biological process
inositol metabolic process
regulation of metabolic process
biological regulation
response to chemical stimulus
transcription, DNA-dependent
regulation of cellular metabolic process
RNA biosynthetic process
transcription
regulation of cellular process
regulation of macromolecule metabolic process
transmembrane transport
regulation of gene expression
regulation of primary metabolic process
regulation of nitrogen compound metabolic process
regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
regulation of transcription
regulation of cellular biosynthetic process
regulation of RNA metabolic process
regulation of macromolecule biosynthetic process
regulation of transcription, DNA-dependent
regulation of biosynthetic process
cell redox homeostasis
regulation of biological quality
homeostatic process
cellular homeostasis
localization
establishment of localization
transport
oxidation reduction
root_self_GO term
0.0
2.5
5.0
7.5
−Log10PValue
Ontology
F
P


electron carrier activity
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
oxidoreductase activity
tetrapyrrole binding
heme binding
fatty-acid synthase activity
3-oxoacyl-[acyl-carrier-protein] synthase activity
metal ion binding
ion binding
transition metal ion binding
cation binding
iron ion binding
transcription regulator activity
transcription factor activity
regulation of biological process
lipid biosynthetic process
regulation of cellular process
biological regulation
RNA metabolic process
RNA biosynthetic process
transcription, DNA-dependent
transcription
regulation of metabolic process
regulation of macromolecule metabolic process
regulation of gene expression
regulation of cellular metabolic process
regulation of primary metabolic process
regulation of nitrogen compound metabolic process
regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
regulation of transcription
regulation of cellular biosynthetic process
regulation of RNA metabolic process
regulation of macromolecule biosynthetic process
regulation of transcription, DNA-dependent
regulation of biosynthetic process
stem_cold_GO term
0
2
4
6
−Log10PValue
Ontology
F
P


receptor binding
growth factor activity
oxidoreductase activity
sequence-specific DNA binding
transcription regulator activity
transcription factor activity
RNA metabolic process
metabolic process
cell proliferation
RNA biosynthetic process
transcription, DNA-dependent
transcription
oxidation reduction
microtubule-based process
regulation of metabolic process
regulation of gene expression
regulation of cellular metabolic process
photosynthesis, light harvesting
regulation of macromolecule metabolic process
regulation of primary metabolic process
regulation of nitrogen compound metabolic process
regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
regulation of transcription
regulation of cellular biosynthetic process
regulation of RNA metabolic process
regulation of macromolecule biosynthetic process
regulation of transcription, DNA-dependent
regulation of biosynthetic process
stem_drought_GO term
0.0
2.5
5.0
7.5
−Log10PValue
Ontology
F
P

microtubule motor activity
motor activity
chaperone binding
cellular nitrogen compound biosynthetic process
rRNA metabolic process
rRNA processing
microtubule−based movement
anatomical structure development
cellular component morphogenesis
anatomical structure morphogenesis
cellular developmental process
cell morphogenesis
microtubule−based process
amine biosynthetic process
cellular amino acid biosynthetic process
carboxylic acid biosynthetic process
organic acid biosynthetic process
protein folding
small molecule biosynthetic process
stem_heat_GO term
0
2
4
−Log10PValue
Ontology
F
P


extracellular region
hydrolase activity, acting on glycosyl bonds
hydrolase activity, hydrolyzing O−glycosyl compounds
copper ion binding
tetrapyrrole binding
heme binding
oxidoreductase activity
transcription regulator activity
iron ion binding
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
transition metal ion binding
metal ion binding
ion binding
cation binding
transcription factor activity
electron carrier activity
biological regulation
regulation of biological process
regulation of cellular process
response to biotic stimulus
RNA biosynthetic process
transcription, DNA−dependent
transcription
regulation of metabolic process
regulation of cellular metabolic process
oxidation reduction
regulation of macromolecule metabolic process
regulation of gene expression
regulation of primary metabolic process
regulation of nitrogen compound metabolic process
regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
regulation of transcription
regulation of cellular biosynthetic process
regulation of RNA metabolic process
regulation of macromolecule biosynthetic process
regulation of transcription, DNA−dependent
regulation of biosynthetic process
stem_salt_GO term
0
2
4
6
8
−Log10PValue
Ontology
C
F
P