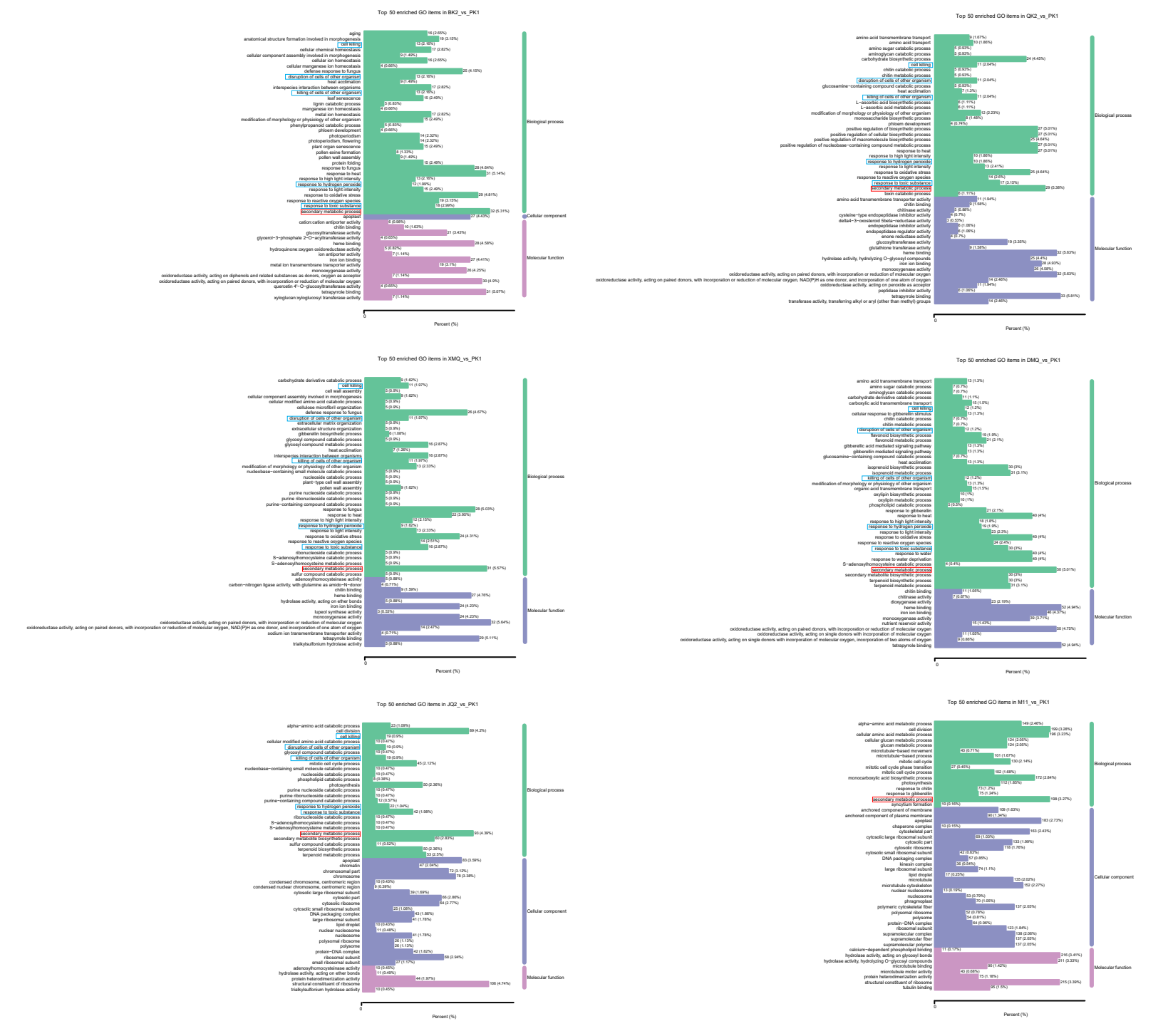

Top 50 enriched GO items in BK2_vs_PK1
aging
anatomical structure formation involved in morphogenesis
cell killing
cellular chemical homeostasis
cellular component assembly involved in morphogenesis
cellular ion homeostasis
cellular manganese ion homeostasis
defense response to fungus
disruption of cells of other organism
heat acclimation
interspecies interaction between organisms
killing of cells of other organism
leaf senescence
lignin catabolic process
manganese ion homeostasis
metal ion homeostasis
modification of morphology or physiology of other organism
phenylpropanoid catabolic process
phloem development
photoperiodism
photoperiodism, flowering
plant organ senescence
pollen exine formation
pollen wall assembly
protein folding
response to fungus
response to heat
response to high light intensity
response to hydrogen peroxide
response to light intensity
response to oxidative stress
response to reactive oxygen species
response to toxic substance
secondary metabolic process
apoplast
cation:cation antiporter activity
chitin binding
glucosyltransferase activity
glycerol−3−phosphate 2−O−acyltransferase activity
heme binding
hydroquinone:oxygen oxidoreductase activity
ion antiporter activity
iron ion binding
metal ion transmembrane transporter activity
monooxygenase activity
oxidoreductase activity, acting on diphenols and related substances as donors, oxygen as acceptor
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
quercetin 4''−O−glucosyltransferase activity
tetrapyrrole binding
xyloglucan:xyloglucosyl transferase activity
Biological process
Cellular component
Molecular function
Percent (%)
Top 50 enriched GO items in QK2_vs_PK1
amino acid transmembrane transport
amino acid transport
amino sugar catabolic process
aminoglycan catabolic process
carbohydrate biosynthetic process
cell killing
chitin catabolic process
chitin metabolic process
disruption of cells of other organism
glucosamine−containing compound catabolic process
heat acclimation
killing of cells of other organism
L−ascorbic acid biosynthetic process
L−ascorbic acid metabolic process
modification of morphology or physiology of other organism
monosaccharide biosynthetic process
phloem development
positive regulation of biosynthetic process
positive regulation of cellular biosynthetic process
positive regulation of macromolecule biosynthetic process
positive regulation of nucleobase−containing compound metabolic process
response to heat
response to high light intensity
response to hydrogen peroxide
response to light intensity
response to oxidative stress
response to reactive oxygen species
response to toxic substance
secondary metabolic process
toxin catabolic process
amino acid transmembrane transporter activity
chitin binding
chitinase activity
cysteine−type endopeptidase inhibitor activity
deltaA−3−oxosteroid 5beta−reductase activity
endopeptidase inhibitor activity
endopeptidase regulator activity
enone reductase activity
glucosyltransferase activity
glutathione transferase activity
heme binding
hydrolase activity, hydrolyzing O−glycosyl compounds
iron ion binding
monooxygenase activity
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, NAD(P)H as one donor, and incorporation of one atom of oxygen
oxidoreductase activity, acting on peroxide as acceptor
peptidase inhibitor activity
tetrapyrrole binding
transferase activity, transferring alkyl or aryl (other than methyl) groups
Biological process
Molecular function
Percent (%)
Top 50 enriched GO items in XMQ_vs_PK1
carbohydrate derivative catabolic process
cell killing
cell wall assembly
cellular component assembly involved in morphogenesis
cellular modified amino acid catabolic process
cellulose microfibril organization
defense response to fungus
disruption of cells of other organism
extracellular matrix organization
extracellular structure organization
gibberellin biosynthetic process
glycosyl compound catabolic process
glycosyl compound metabolic process
heat acclimation
interspecies interaction between organisms
killing of cells of other organism
modification of morphology or physiology of other organism
nucleobase−containing small molecule catabolic process
nucleoside catabolic process
plant−type cell wall assembly
pollen wall assembly
purine nucleoside catabolic process
purine ribonucleoside catabolic process
purine−containing compound catabolic process
response to fungus
response to heat
response to high light intensity
response to hydrogen peroxide
response to light intensity
response to oxidative stress
response to reactive oxygen species
response to toxic substance
ribonucleoside catabolic process
S−adenosylhomocysteine catabolic process
S−adenosylhomocysteine metabolic process
secondary metabolic process
sulfur compound catabolic process
adenosylhomocysteinase activity
carbon−nitrogen ligase activity, with glutamine as amide−N−donor
chitin binding
heme binding
hydrolase activity, acting on other bonds
iron ion binding
lupeol synthase activity
monooxygenase activity
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, NAD(P)H as one donor, and incorporation of one atom of oxygen
sodium ion transmembrane transporter activity
tetrapyrrole binding
trialkylsulfonium hydrolase activity
Biological process
Molecular function
Percent (%)
Top 50 enriched GO items in DMQ_vs_PK1
amino acid transmembrane transport
amino sugar catabolic process
aminoglycan catabolic process
carbohydrate derivative catabolic process
carboxylic acid transmembrane transport
cell killing
cellular response to gibberellin stimulus
chitin catabolic process
chitin metabolic process
disruption of cells of other organism
flavonoid biosynthetic process
flavonoid metabolic process
gibberellic acid mediated signaling pathway
gibberellin mediated signaling pathway
glucosamine−containing compound catabolic process
heat acclimation
isoprenoid biosynthetic process
isoprenoid metabolic process
killing of cells of other organism
modification of morphology or physiology of other organism
organic acid transmembrane transport
oxylipin biosynthetic process
oxylipin metabolic process
phospholipid catabolic process
response to gibberellin
response to heat
response to high light intensity
response to hydrogen peroxide
response to light intensity
response to oxidative stress
response to reactive oxygen species
response to toxic substance
response to water
S−adenosylhomocysteine catabolic process
secondary metabolic process
secondary metabolite biosynthetic process
terpenoid biosynthetic process
terpenoid metabolic process
chitin binding
chitinase activity
dioxygenase activity
heme binding
iron ion binding
monooxygenase activity
nutrient reservoir activity
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
oxidoreductase activity, acting on single donors with incorporation of molecular oxygen
oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen
tetrapyrrole binding
Biological process
Molecular function
Percent (%)
Top 50 enriched GO items in JQ2_vs_PK1
alpha−amino acid catabolic process
cell division
cell killing
cellular modified amino acid catabolic process
disruption of cells of other organism
glycosyl compound catabolic process
killing of cells of other organism
mitotic cell cycle process
nucleobase−containing small molecule catabolic process
nucleoside catabolic process
phospholipid catabolic process
photosynthesis
purine nucleoside catabolic process
purine ribonucleoside catabolic process
purine−containing compound catabolic process
response to hydrogen peroxide
response to toxic substance
ribonucleoside catabolic process
S−adenosylhomocysteine catabolic process
S−adenosylhomocysteine metabolic process
secondary metabolic process
secondary metabolite biosynthetic process
sulfur compound catabolic process
terpenoid biosynthetic process
terpenoid metabolic process
apoplast
chromatin
chromosomal part
chromosome
condensed chromosome, centromeric region
condensed nuclear chromosome, centromeric region
cytosolic large ribosomal subunit
cytosolic part
cytosolic ribosome
cytosolic small ribosomal subunit
DNA packaging complex
large ribosomal subunit
lipid droplet
nuclear nucleosome
nucleosome
polysomal ribosome
polysome
protein−DNA complex
ribosomal subunit
small ribosomal subunit
adenosylhomocysteinase activity
hydrolase activity, acting on other bonds
protein heterodimerization activity
structural constituent of ribosome
trialkylsulfonium hydrolase activity
Biological process
Cellular component
Molecular function
Percent (%)
Top 50 enriched GO items in M11_vs_PK1
alpha−amino acid metabolic process
cell division
cellular amino acid metabolic process
cellular glucan metabolic process
glucan metabolic process
microtubule−based movement
microtubule−based process
mitotic cell cycle
mitotic cell cycle phase transition
mitotic cell cycle process
monocarboxylic acid biosynthetic process
photosynthesis
response to chitin
response to gibberellin
secondary metabolic process
syncytium formation
anchored component of membrane
anchored component of plasma membrane
apoplast
chaperone complex
cytoskeletal part
cytosolic large ribosomal subunit
cytosolic part
cytosolic ribosome
cytosolic small ribosomal subunit
DNA packaging complex
kinesin complex
large ribosomal subunit
lipid droplet
microtubule
microtubule cytoskeleton
nuclear nucleosome
nucleosome
phragmoplast
polymeric cytoskeletal fiber
polysomal ribosome
polysome
protein−DNA complex
ribosomal subunit
supramolecular complex
supramolecular fiber
supramolecular polymer
calcium−dependent phospholipid binding
hydrolase activity, acting on glycosyl bonds
hydrolase activity, hydrolyzing O−glycosyl compounds
microtubule binding
microtubule motor activity
protein heterodimerization activity
structural constituent of ribosome
tubulin binding
Biological process
Cellular component
Molecular function
Percent (%)