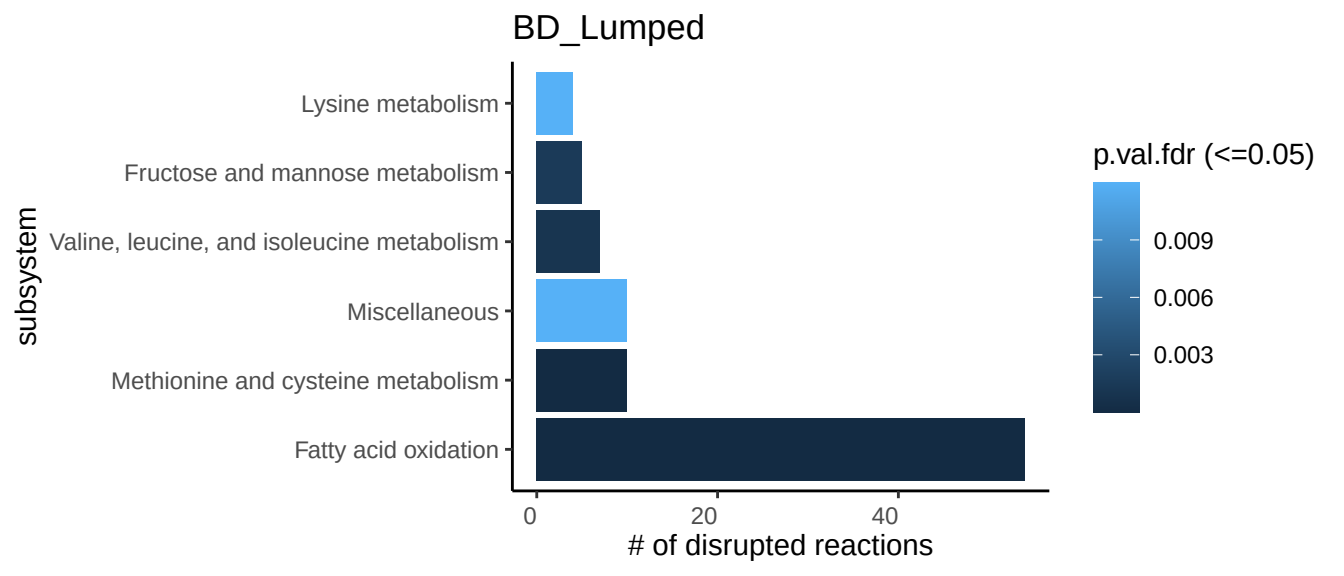
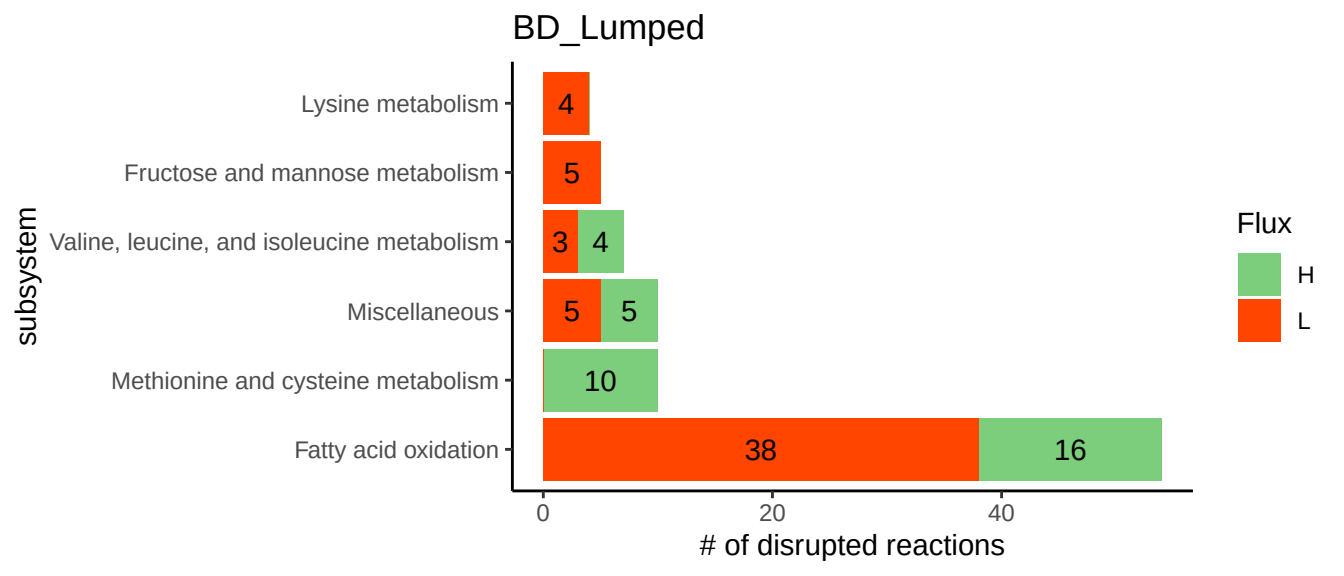
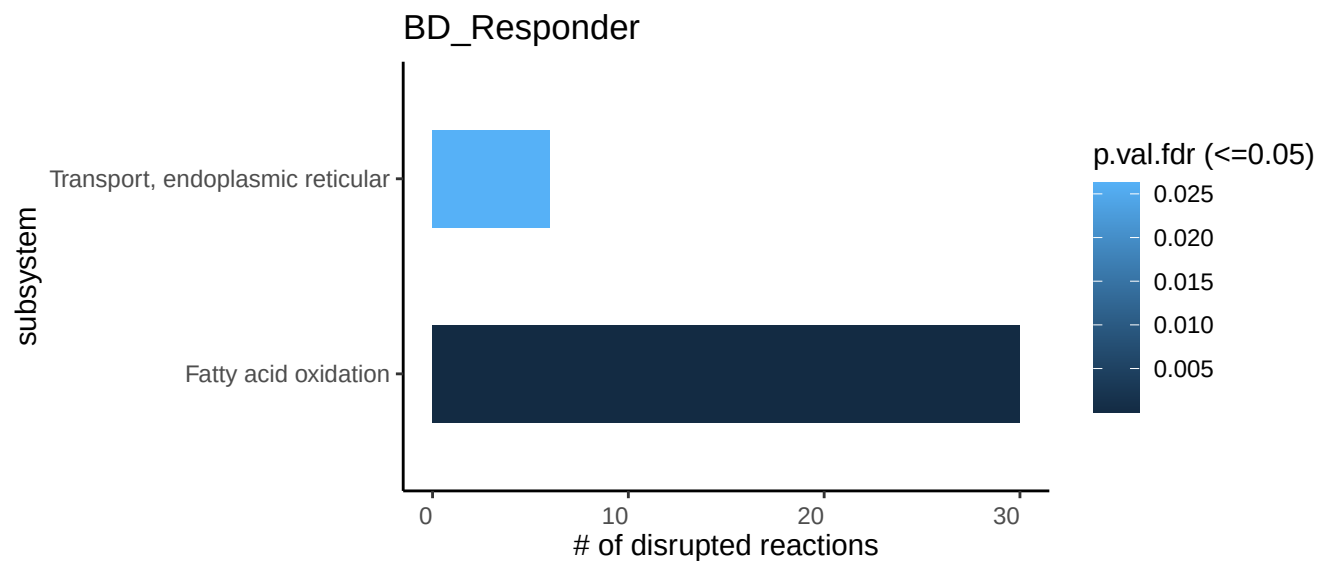
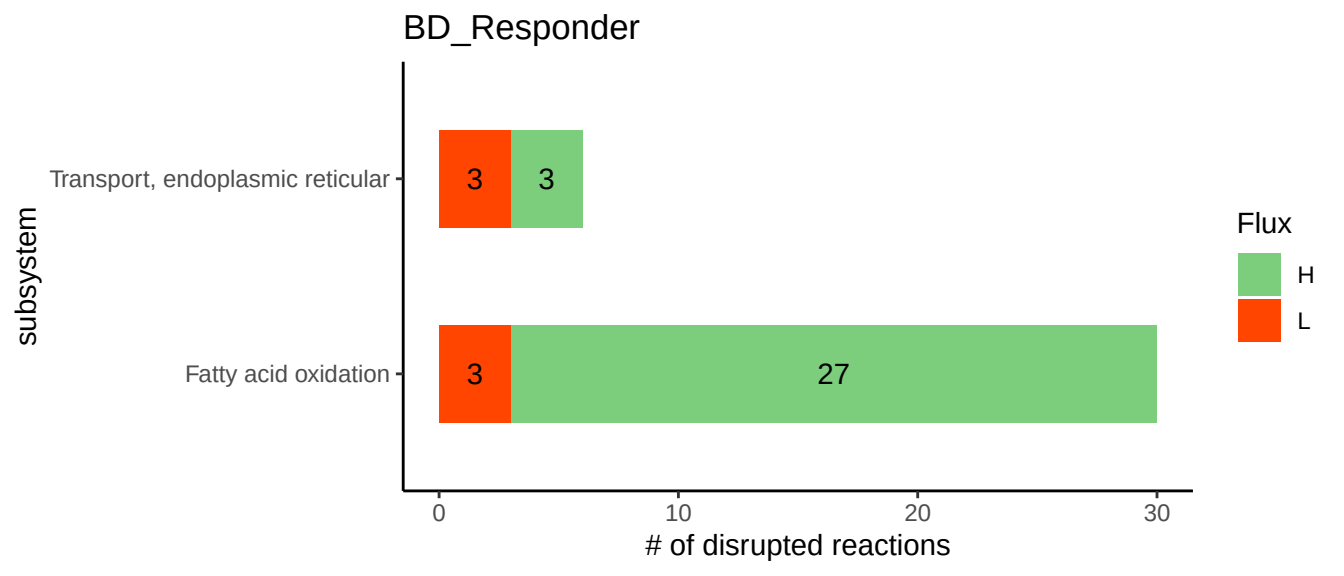
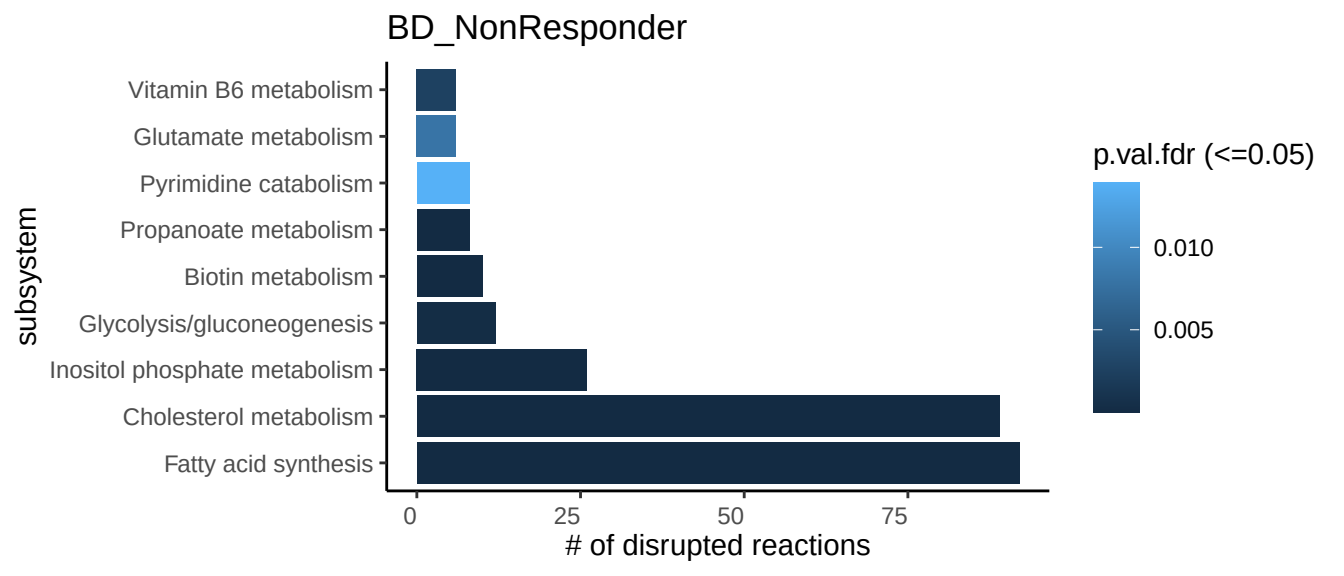
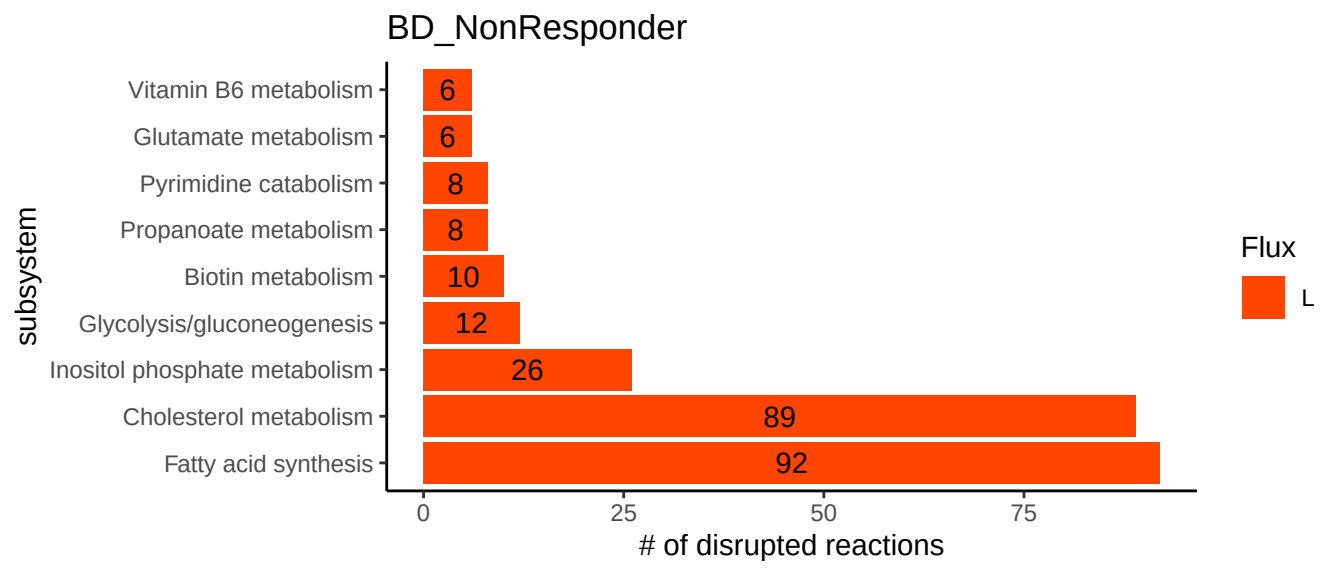

BD_Lumped
Lysine metabolism
Fructose and mannose metabolism
Valine, leucine, and isoleucine metabolism
Miscellaneous
Methionine and cysteine metabolism
Fatty acid oxidation
subsystem
0
20
40
# of disrupted reactions
p.val.fdr (<=0.05)
0.009
0.006
0.003


BD_Lumped
subsystem
Lysine metabolism
Fructose and mannose metabolism
Valine, leucine, and isoleucine metabolism
Miscellaneous
Methionine and cysteine metabolism
Fatty acid oxidation
4
5
3
4
5
5
10
38
16
0
20
40
# of disrupted reactions
Flux
H
L

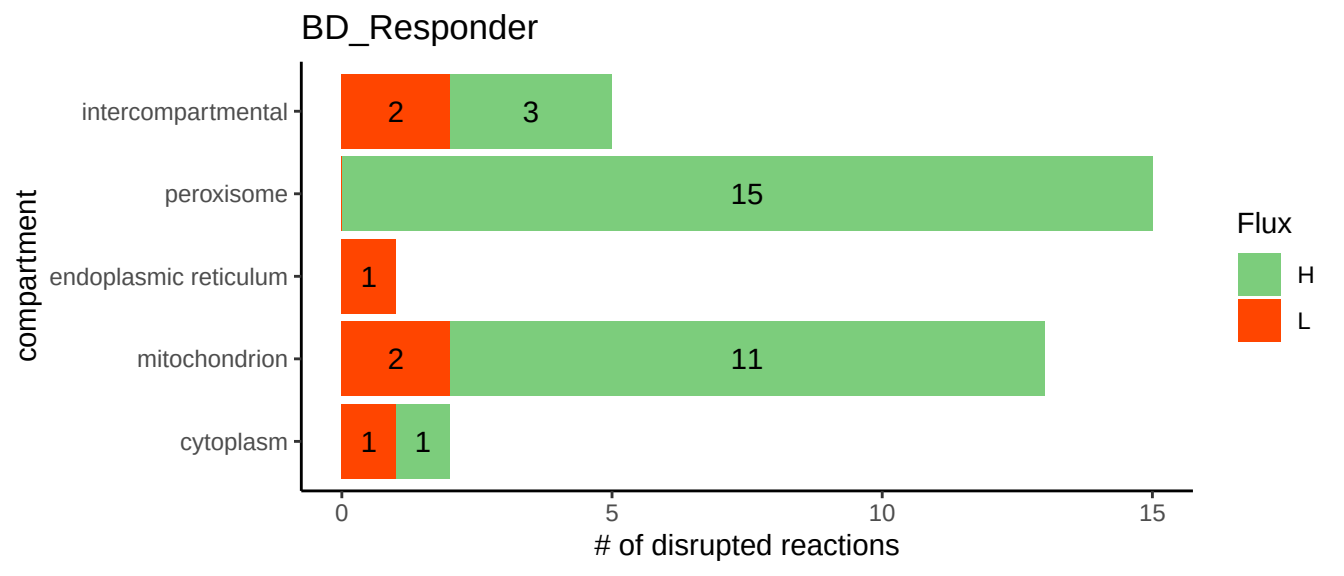

BD_Responder
subsystem
Transport, endoplasmic reticular
Fatty acid oxidation
0
10
20
30
# of disrupted reactions
p.val.fdr (<=0.05)
0.025
0.020
0.015
0.010
0.005

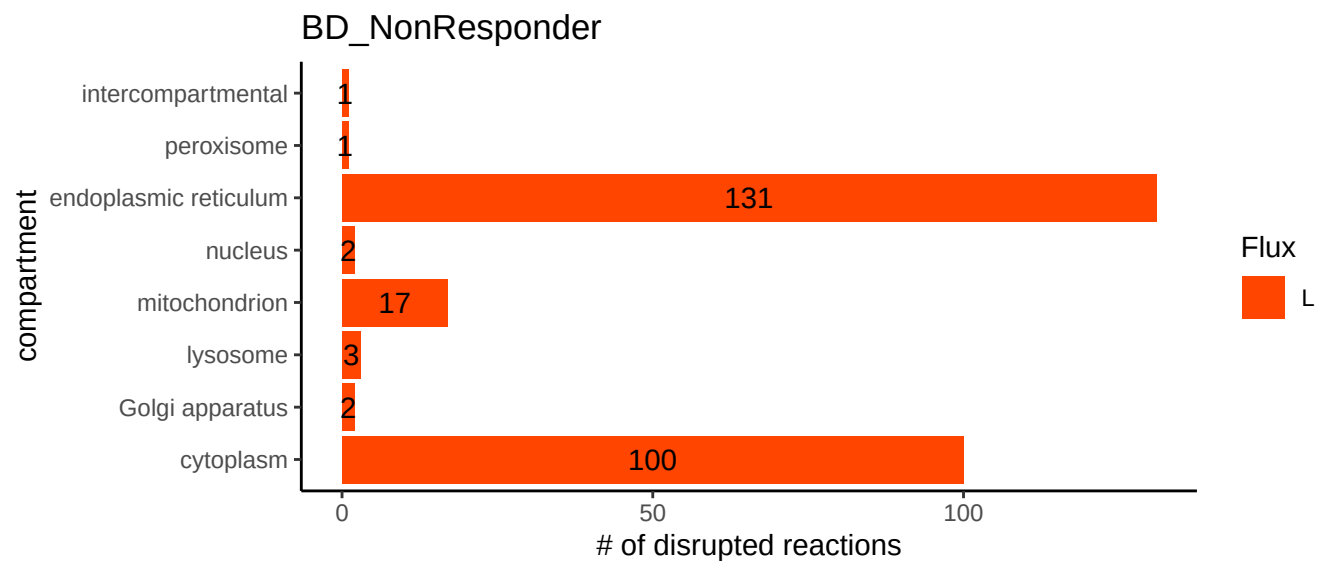

BD_Responder
subsystem
Transport, endoplasmic reticular
Fatty acid oxidation
3
3
3
27
0
10
20
30
# of disrupted reactions
Flux
H
L


BD_NonResponder
Vitamin B6 metabolism
Glutamate metabolism
Pyrimidine catabolism
Propanoate metabolism
Biotin metabolism
Glycolysis/gluconeogenesis
Inositol phosphate metabolism
Cholesterol metabolism
Fatty acid synthesis
subsystem
0
25
50
75
# of disrupted reactions
p.val.fdr (<=0.05)
0.010
0.005


BD_NonResponder
Vitamin B6 metabolism
Glutamate metabolism
Pyrimidine catabolism
Propanoate metabolism
Biotin metabolism
Glycolysis/gluconeogenesis
Inositol phosphate metabolism
Cholesterol metabolism
Fatty acid synthesis
6
6
8
8
10
12
26
89
92
subsystem
0
25
50
75
# of disrupted reactions
Flux
L


BD_Lumped
compartment
peroxisome
mitochondrion
extracellular space
cytoplasm
13
30
11
1
1
24
10
0
10
20
30
40
# of disrupted reactions
Flux
H
L


BD_Responder
compartment
intercompartmental
peroxisome
endoplasmic reticulum
mitochondrion
cytoplasm
2
3
15
1
2
11
1
1
0
5
10
15
# of disrupted reactions
Flux
H
L


BD_NonResponder
intercompartmental
peroxisome
endoplasmic reticulum
nucleus
mitochondrion
lysosome
Golgi apparatus
cytoplasm
compartment
1
1
131
2
17
3
2
100
0
50
100
# of disrupted reactions
Flux
L