

BD_Lumped

subsystem

Lysine metabolism
Fructose and mannose metabolism
Valine, leucine, and isoleucine metabolism
Miscellaneous
Methionine and cysteine metabolism
Fatty acid oxidation

0

20

40

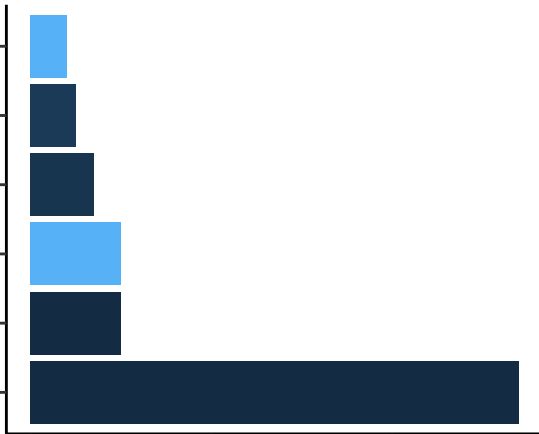
of disrupted reactions

p.val.fdr (≤ 0.05)

0.009

0.006

0.003



BD_Lumped

subsystem



BD_Responder

subsystem

Transport, endoplasmic reticular

Fatty acid oxidation

0

10

20

30

of disrupted reactions

p.val.fdr (≤ 0.05)

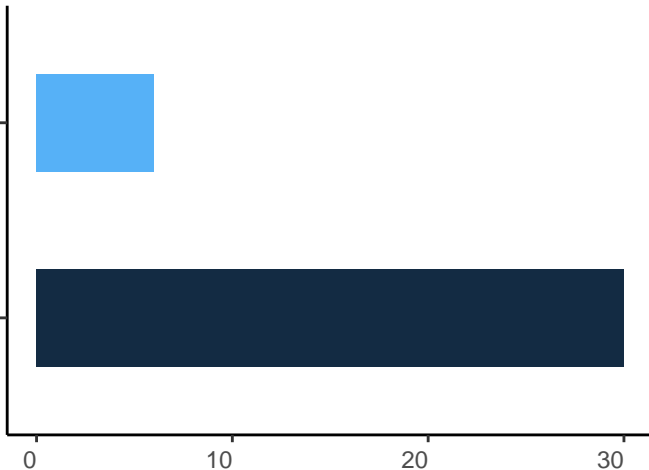
0.025

0.020

0.015

0.010

0.005



BD_Responder

subsystem

Transport, endoplasmic reticular

Fatty acid oxidation

Flux



0

10

20

30

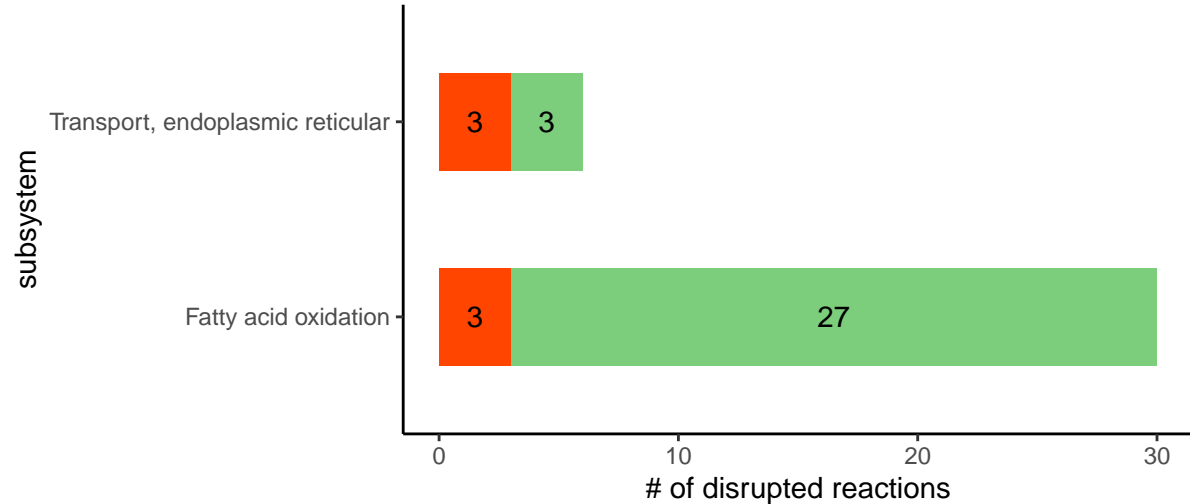
of disrupted reactions

3

3

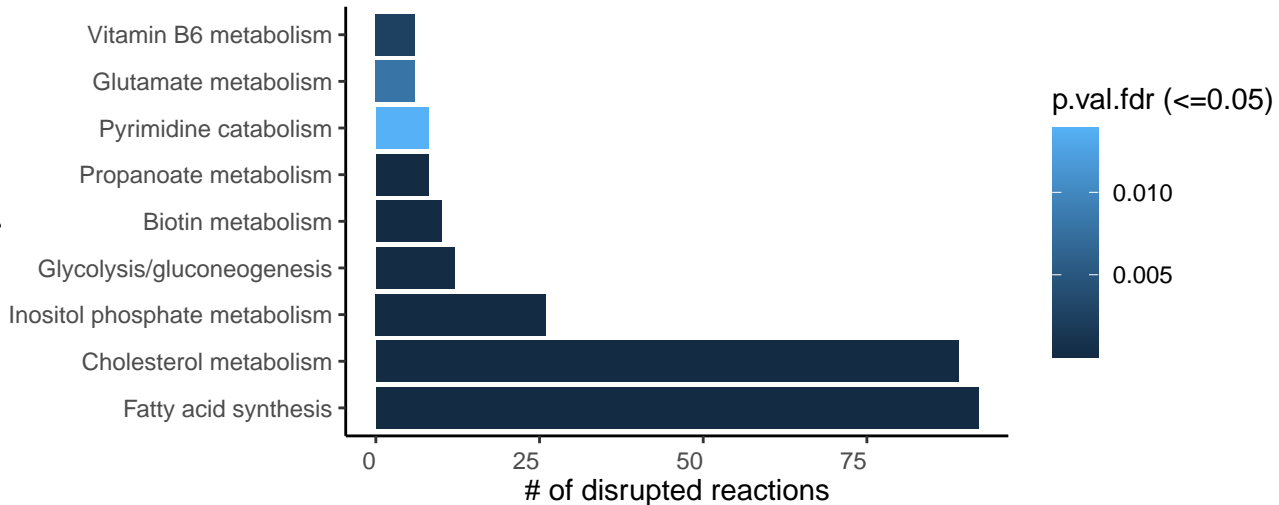
3

27



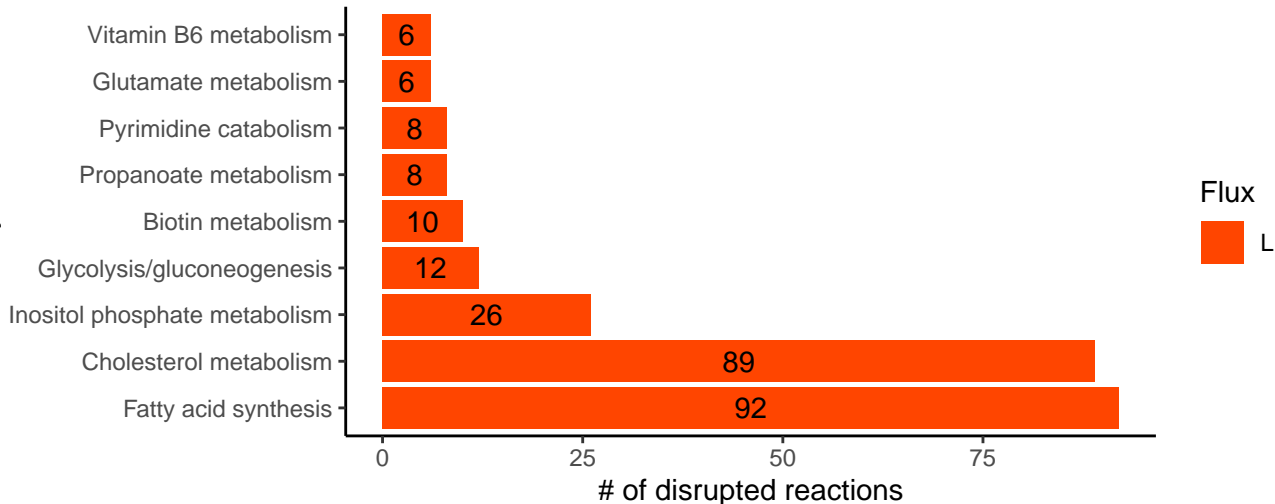
BD_NonResponder

subsystem



BD_NonResponder

subsystem



BD_Lumped

compartment

peroxisome

mitochondrion

extracellular space

cytoplasm

Flux



0

10

20

30

40

of disrupted reactions

13

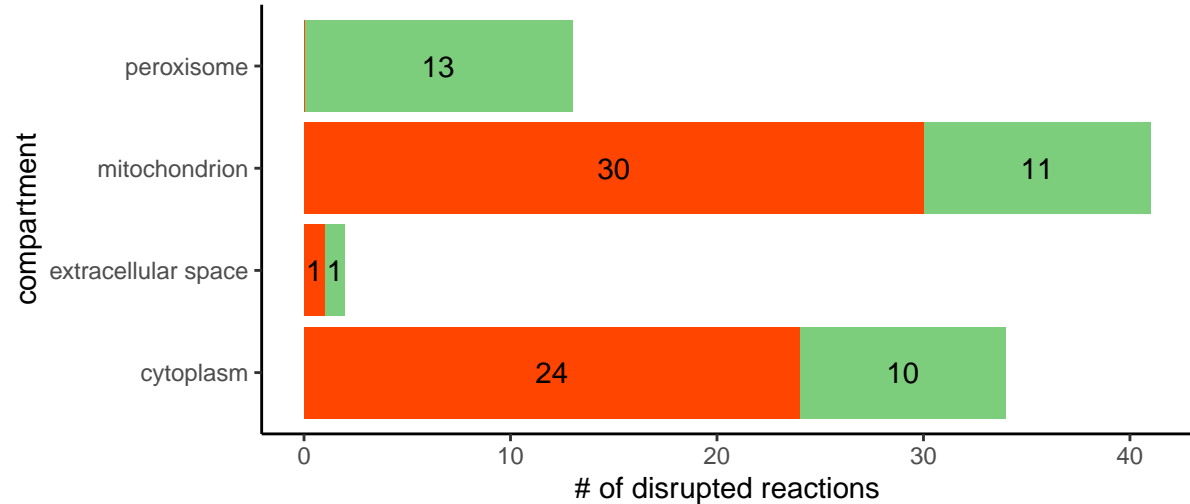
30

11

1 1

24

10



BD_Responder

compartment

intercompartmental

peroxisome

endoplasmic reticulum

mitochondrion

cytoplasm

Flux



0

5

10

15

of disrupted reactions

2

3

15

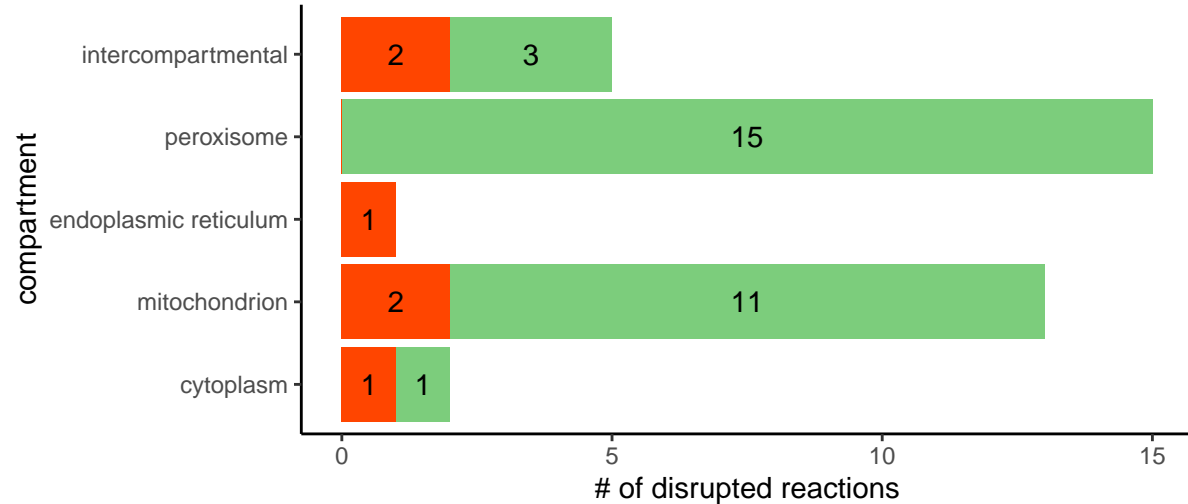
1

2

11

1

1



BD_NonResponder

compartment

