

# 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

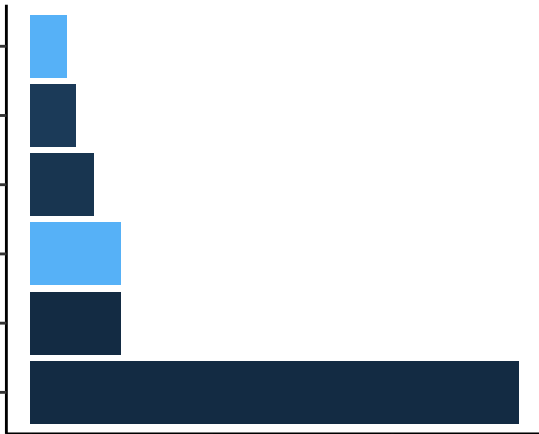
p.val.fdr ( $\leq 0.05$ )

0.012

0.009

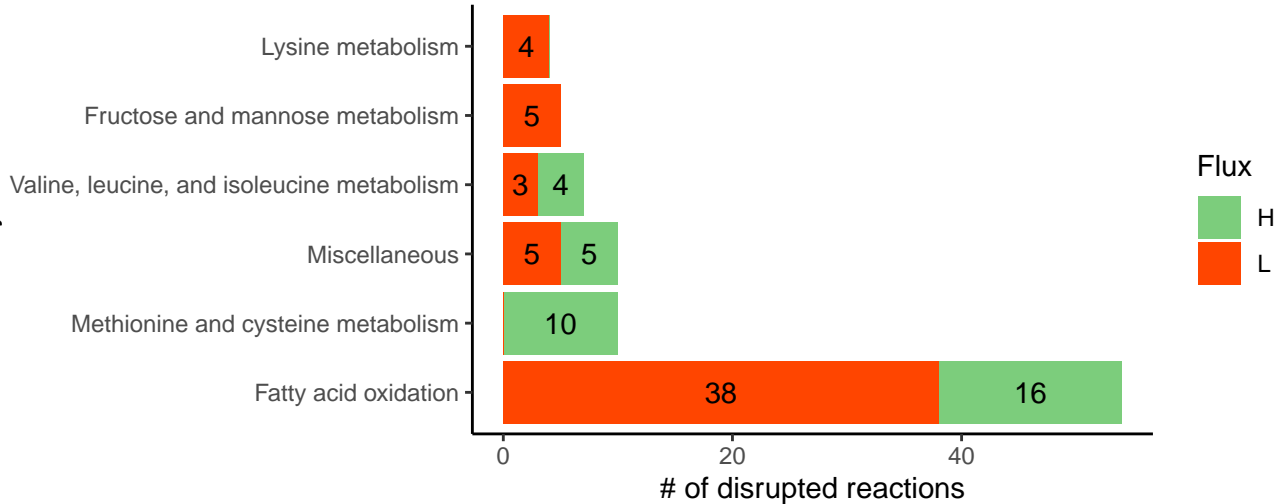
0.006

0.003



# BD\_Lumped

subsystem



# BD\_Responder

subsystem

Transport, endoplasmic reticular

Fatty acid oxidation

0

10

20

30

# of disrupted reactions

p.val.fdr ( $\leq 0.05$ )

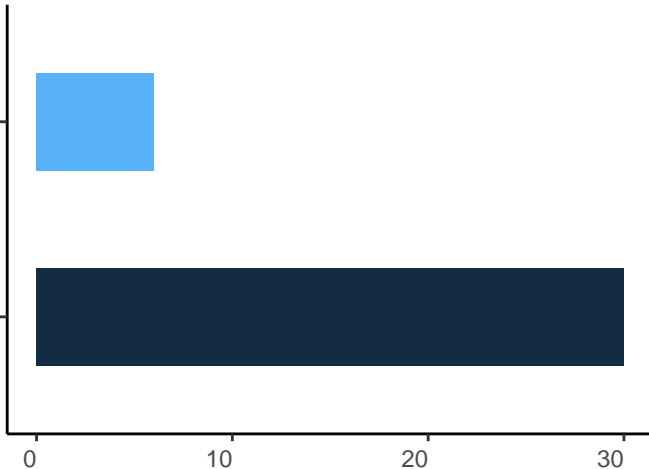
0.025

0.020

0.015

0.010

0.005



# BD\_Responder

subsystem

Transport, endoplasmic reticular

Fatty acid oxidation

Flux



0

10

20

30

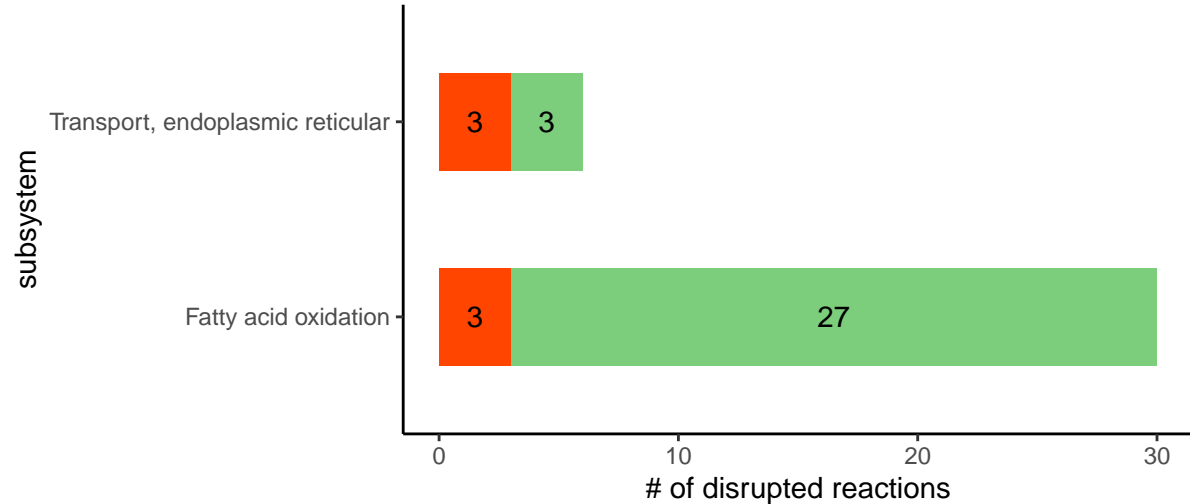
# of disrupted reactions

3

3

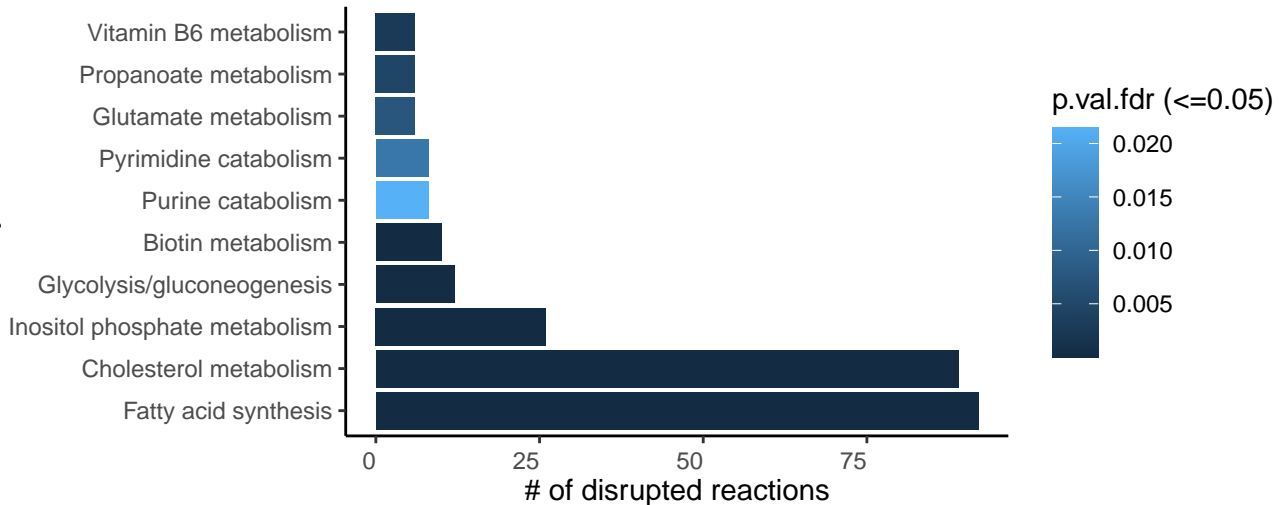
3

27



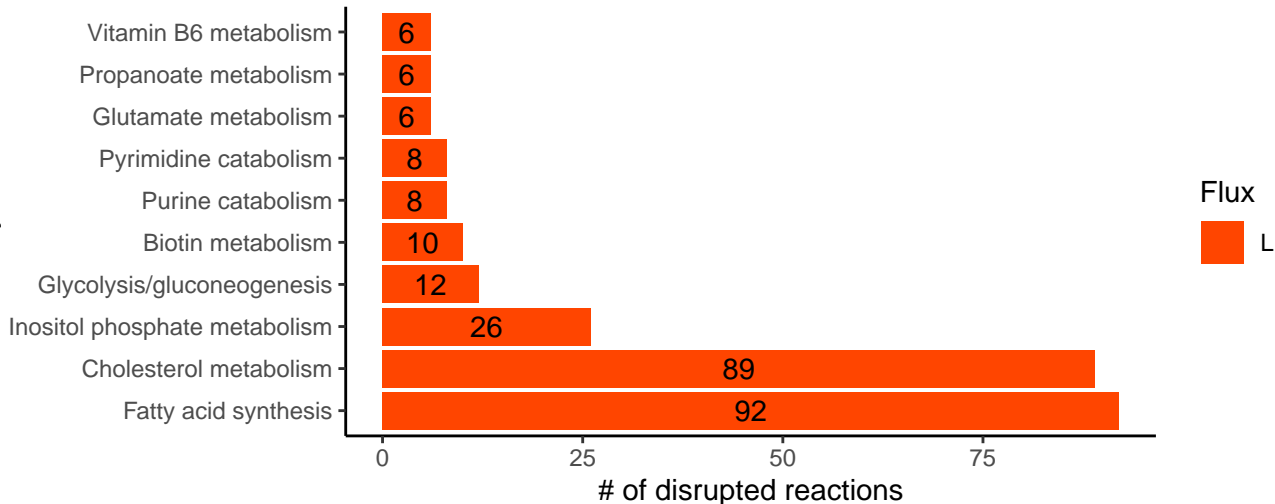
## BD\_NonResponder

subsystem



## BD\_NonResponder

subsystem



# BD\_Lumped

compartment

peroxisome

mitochondrion

extracellular space

cytoplasm

Flux



0

10

20

30

40

# of disrupted reactions

13

30

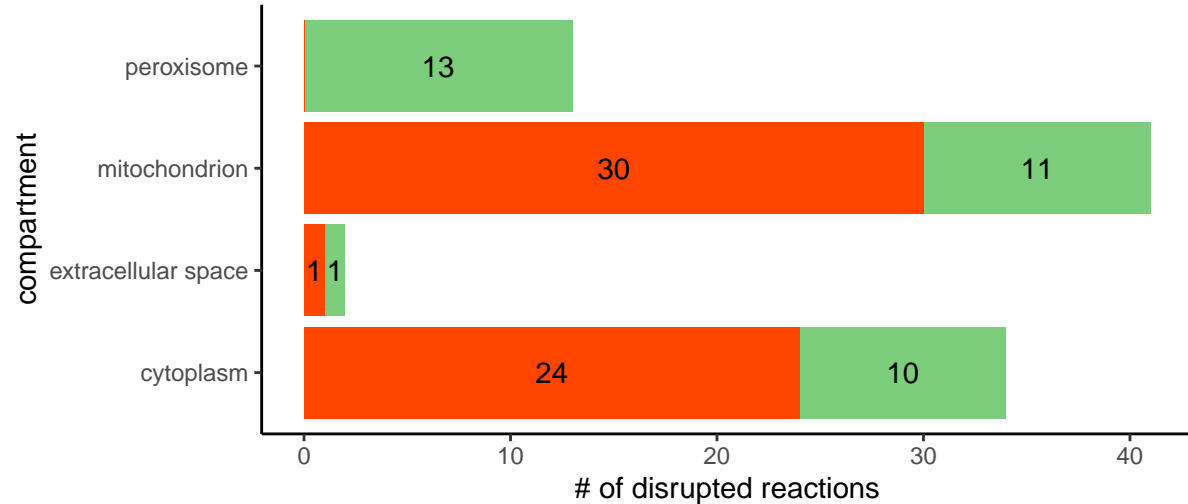
11

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

