

BD_Lumped

subsystem

Nucleotide salvage pathway
Methionine and cysteine metabolism
Purine synthesis
Eicosanoid metabolism
Transport, lysosomal
Keratan sulfate degradation

p.val.fdr (≤ 0.05)

0.03

0.02

0.01

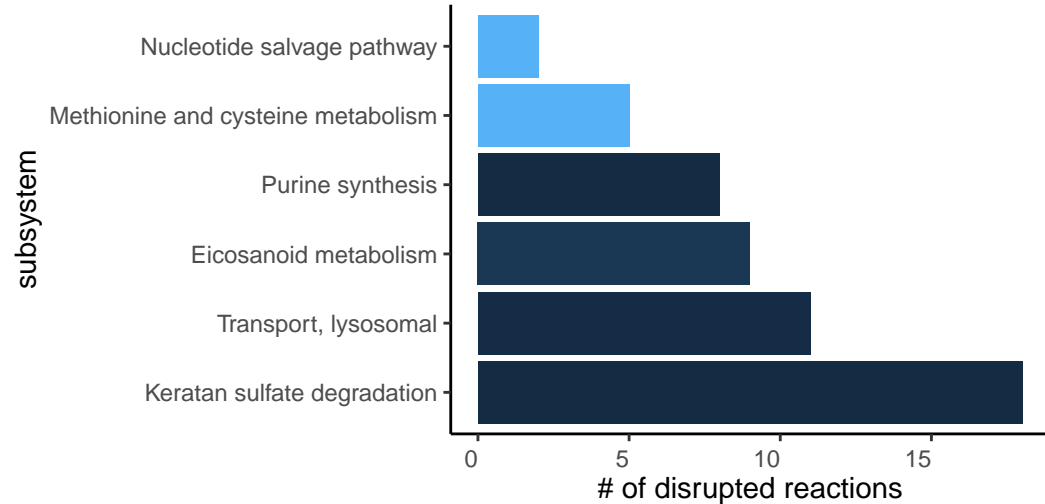
0

5

10

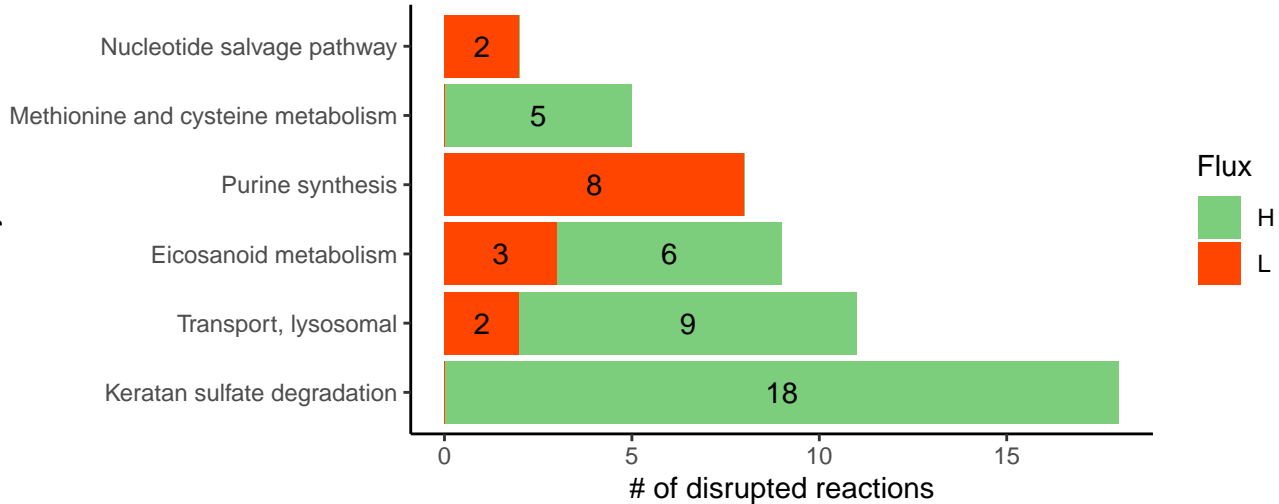
15

of disrupted reactions



BD_Lumped

subsystem



BD_Responder

subsystem

O-glycan metabolism

Methionine and cysteine metabolism

Transport, golgi apparatus

Transport, lysosomal

Eicosanoid metabolism

Keratan sulfate degradation

0

5

10

15

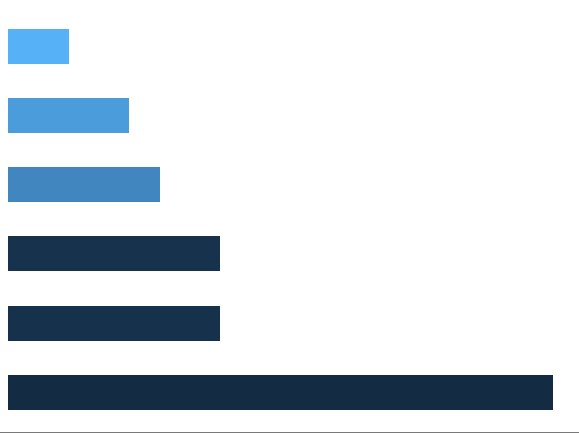
of disrupted reactions

p.val.fdr (≤ 0.05)

0.015

0.010

0.005



BD_Responder

subsystem

O-glycan metabolism
Methionine and cysteine metabolism
Transport, golgi apparatus
Transport, lysosomal
Eicosanoid metabolism
Keratan sulfate degradation

0

5

10

15

of disrupted reactions

Flux



H

L

2

4

5

1

6

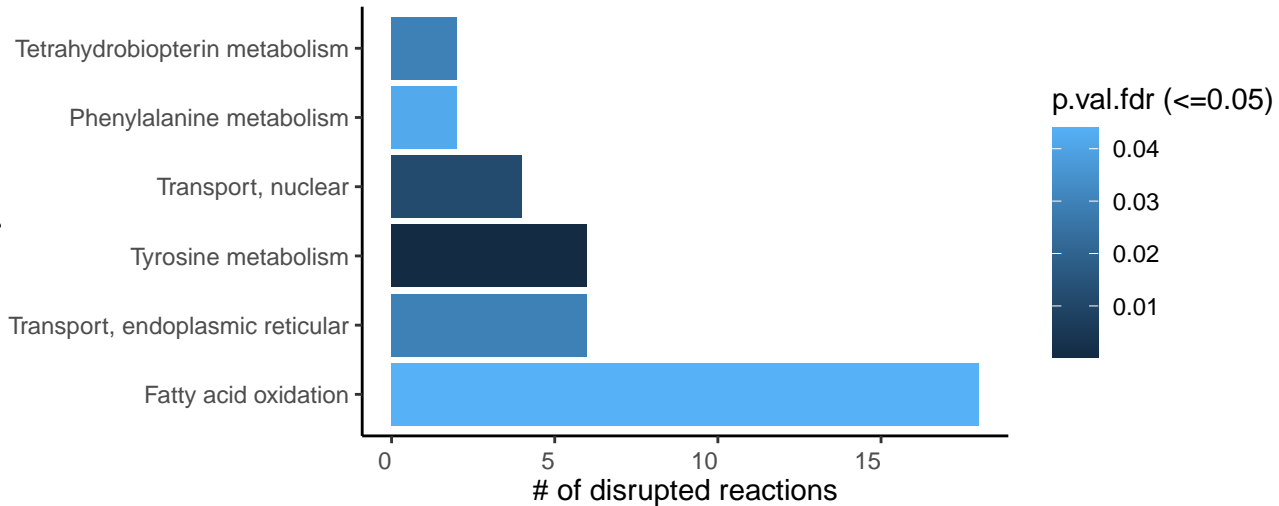
6

1

18

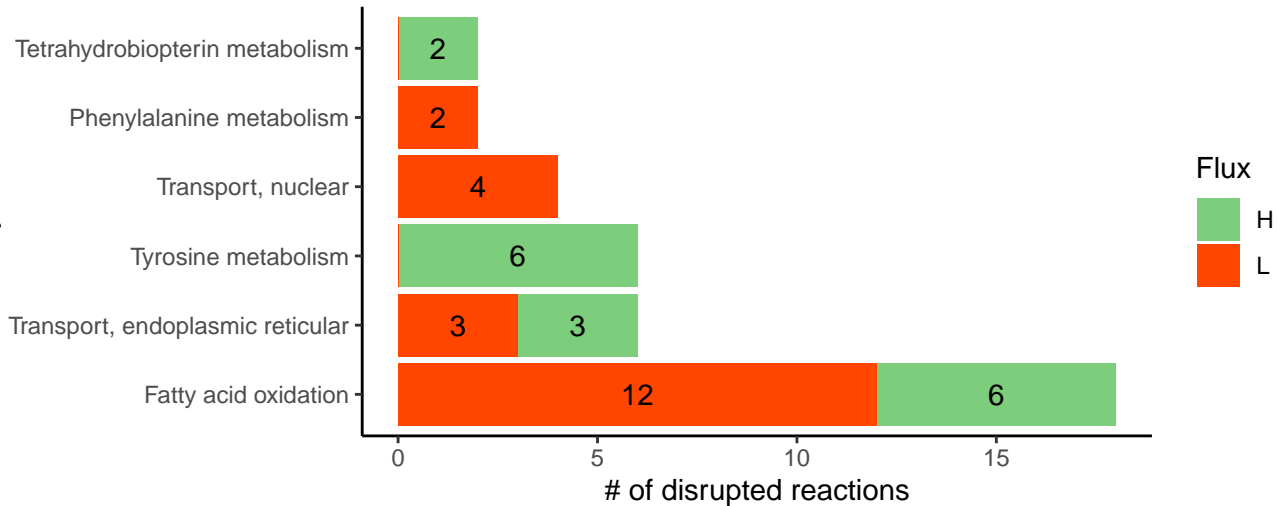
BD_NonResponder

subsystem



BD_NonResponder

subsystem



BD_Lumped

compartment

intercompartmental

lysosome

cytoplasm

Flux



0

5

10

15

20

25

of disrupted reactions

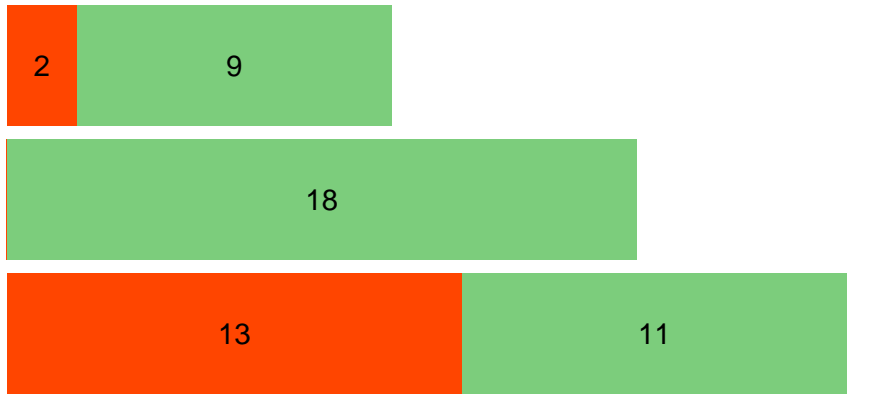
2

9

18

13

11



BD_Responder

compartment

intercompartmental

1

11

endoplasmic reticulum

1

lysosome

18

Golgi apparatus

2

cytoplasm

6

4

Flux



H

L

of disrupted reactions

0

5

10

15

BD_NonResponder

compartment

intercompartmental

peroxisome

mitochondrion

extracellular space

cytoplasm

Flux



0

5

10

of disrupted reactions

8

4

1

1

8

2

1

4

9