artMS

Analytical R Tools for Mass Spectrometry

http://artms.org



Case Studies

Protein Phosphorylation



Example Protein: UGH2020

UGH2020 S134: AAAPPQPS(ph)PPPTK

UGH2020 S272: AAATGNAS (ph) PGKLEHSK

UGH2020 S45: _AAAAAATAPPS(ph)PGPAQPGPR_

Conditions: A and B

"site-specific" relative quantification

log2fc(A/B)

1.63

0.15

0.72

adj-value

0.23

0.04

0.0001

protein_id

UGH2020 S45

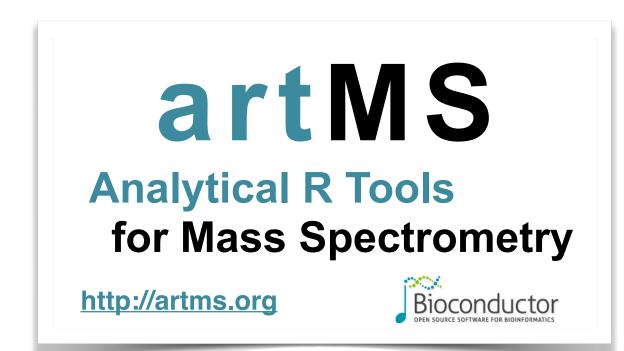
UGH2020 S134

UGH2020 S272

"protein-level" relative quantification

protein id log2fc(A/B) adj-value

UGH2020 1.2 0.001



Case Studies



Conditions: A and B

Example Protein: UGH2020

UGH2020 S45: _AAAAAATAPPS(ph)PGPAQPGPR_

UGH2020 S134: _AAAPPQPS(ph)PPTK_

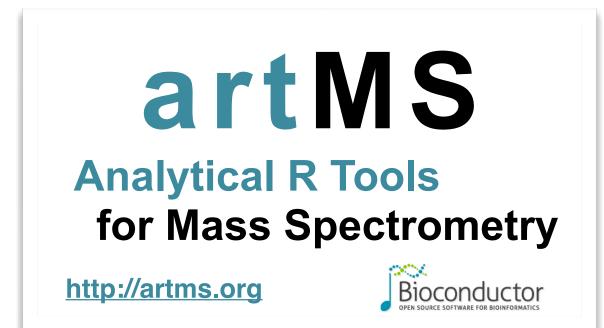
UGH2020 S272: _AAATGNAS(ph)PGKLEHSK_

"protein-level" relative quantification

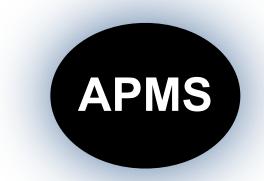
protein_id log2fc(A/B) adj-value UGH2020 1.2 0.001

"site-specific" relative quantification

protein_id	log2fc(A/B)	adj-value
UGH2020_S45	1.63	0.0001
UGH2020_S134	0.15	0.23
UGH2020_S272	0.72	0.04



Case Studies



Affinity Purification Mass Spectrometry

Bait protein: CUL5

