

sciPhospho

parallel protein and phosphorylation analysis

T cell activation

Oxidative stress response

Cell cycle regulation

Cell adhesion and motility

Transcription factor activation

Alzheimer pathway regulation



Advantages

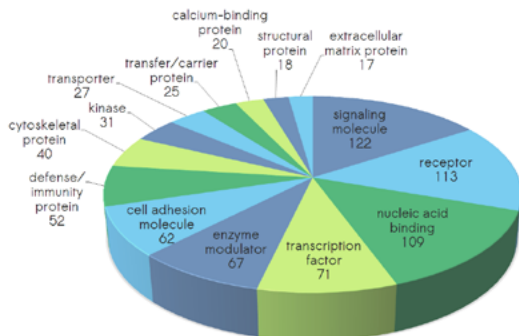
- > Protein expression and phosphorylation level analysis in a single assay
- > Coverage of important
 - Signalling pathways
 - Transcription factors
 - Receptors
- > Complete analysis from minimal sample volume

Features

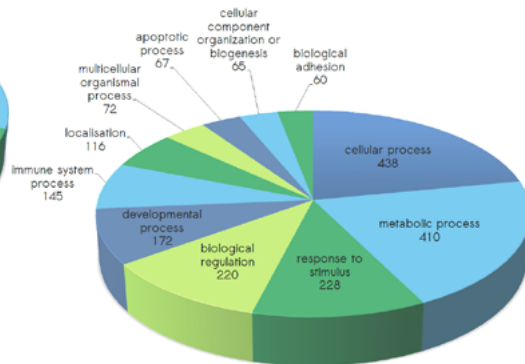
- > Analysis of 900 proteins per assay
- > Profiling of serine, tyrosine and threonine phosphorylation
- > Analysis of individual phosphorylation types available
- > Comprehensive data analysis and presentation, including an individualised report

Parallel phosphorylation and protein expression analysis of 900 proteins

Protein classes



Biological processes



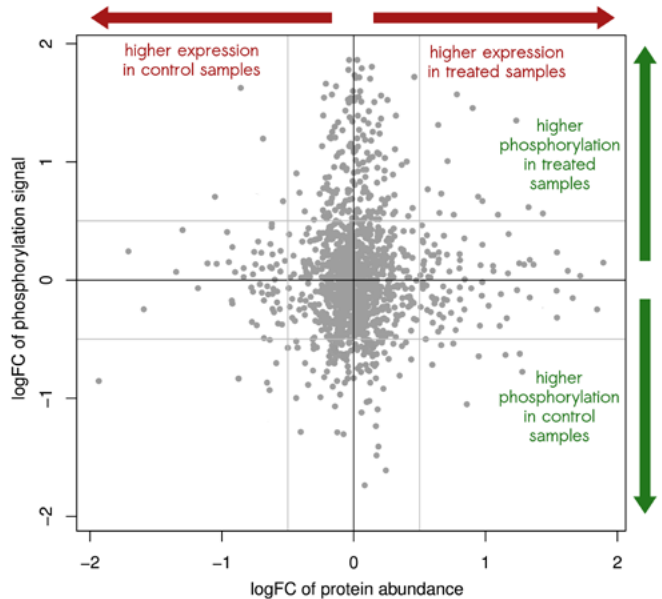
Applications

- > T cell activation
- > Tissue treatment response
- > Cell cycle regulation
- > Oxidative stress response
- > Transcription factor activation
- > Cell adhesion and motility

- > Phosphorylation profiling of various signalling pathways:
 - FAK phosphorylation
 - PI3K-AKT pathway
 - p53 pathway regulation
 - Alzheimer pathway regulation

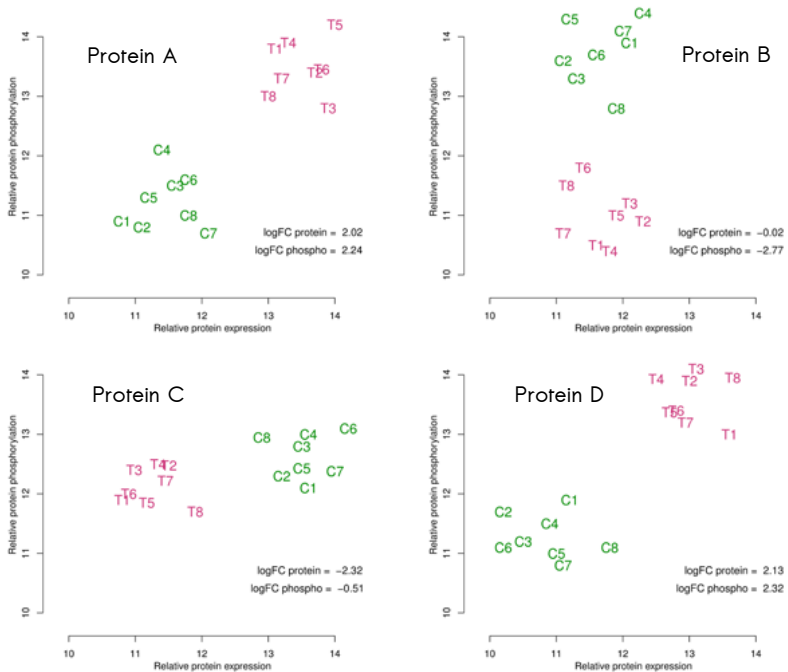
Overview of differentially expressed (x-axis) and phosphorylated (y-axis) proteins from a study comparing a treated and a control sample group.

- > Direct comparison of protein level changes to phosphorylation changes
- > Easy identification of statistically significant changes



Case study

In a study comparing 8 treated cell line samples with 8 control samples, several proteins were identified as differentially expressed and/or phosphorylated. Protein expression and phosphorylation of 4 proteins in all samples are shown (C = Control, T = Treated).



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