

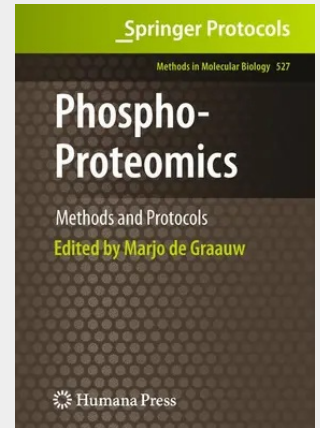
Phospho-Proteomics

Methods and Protocols

Protein phosphorylation controls many basic cellular processes, such as cell growth, differentiation, migration, metabolism, and cell death, and its study can provide key insights into the signal transduction pathways that are activated in cells in response to different stimuli, such as growth factor stimulation or exposure to toxicants. In , expert researchers contribute both well-established protocols and some of the newest strategies for the identification and evaluation of protein phosphorylation on Tyr, Ser, and Thr residues, including topics such as 2-dimensional gel electrophoresis and protein phosphorylation, enrichment of phospho-proteins and peptides, quantitative analysis of phosphorylation by labeling and MS analysis, and antibody and kinase arrays. Written in the highly successful series format, chapters include brief introductions to their respective subjects, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls.

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106,99 €
99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781603278331
Medium: Buch
ISBN: 978-1-60327-833-1
Verlag: Humana
Erscheinungstermin: 05.03.2009
Sprache(n): Englisch
Auflage: 1. Auflage 2009
Serie: Methods in Molecular Biology
Produktform: Gebunden
Gewicht: 937 g
Seiten: 332
Format (B x H): 198 x 266 mm

