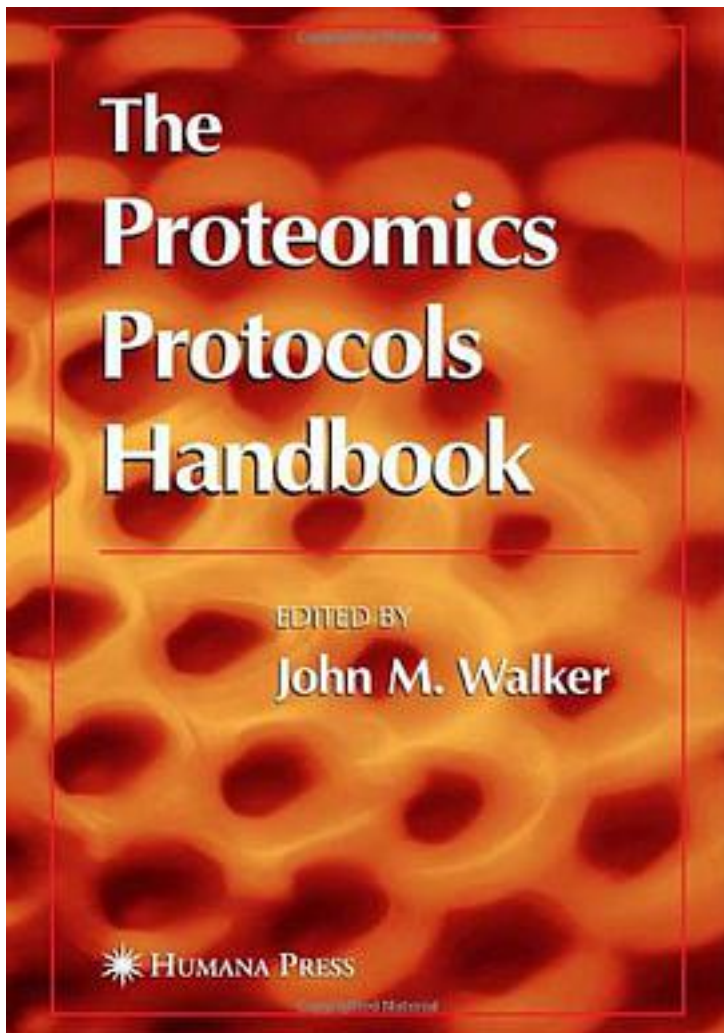


# The Proteomics Protocols Handbook



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Hands-on researchers describe in step-by-step detail 73 proven laboratory methods

and bioinformatics tools essential for analysis of the proteome. These cutting-edge techniques address such important tasks as sample preparation, 2D-PAGE, gel staining, mass spectrometry, and post-translational modification. There are also readily reproducible methods for protein expression profiling, identifying protein-protein interactions, and protein chip technology, as well as a range of newly developed methodologies for determining the structure and function of a protein. The bioinformatics tools include those for analyzing 2D-GEL patterns, protein modeling, and protein identification. All laboratory-based protocols follow the successful Methods in Molecular Biology(t) series format, each offering step-by-step laboratory instructions, an introduction outlining the principle behind the technique, lists of the necessary equipment and reagents, and tips on troubleshooting and avoiding known pitfalls.

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目录:

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