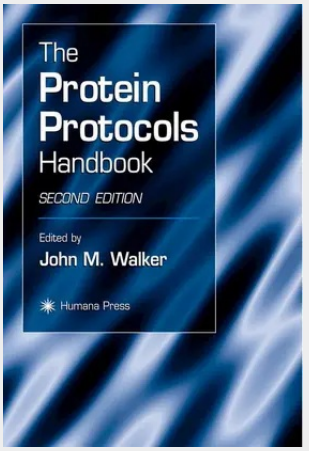
Walker

The Protein Protocols Handbook



The Protein Protocols Handbook, Second Edition aims to provide a cross-section of analytical techniques commonly used for proteins and peptides, thus providing a benchtop manual and guide for those who are new to the protein chemistry laboratory and for those more established workers who wish to use a technique for the first time. All chapters are written in the same format as that used in the Methods in Molecular Biology™ series. Each chapter opens with a description of the basic theory behind the method being described. The Materials section lists all the chemicals, reagents, buffers, and other materials necessary for carrying out the protocol. Since the principal goal of the book is to provide experimentalists with a full account of the practical steps necessary for carrying out each protocol successfully, the Methods section contains detailed st- by-step descriptions of every protocol that should result in the successful execution of each method. The Notes section complements the Methods material by indicating how best to deal with any problem or difficulty that may arise when using a given technique, and how to go about making the widest variety of modifications or alterations to the protocol. Since the first edition of this book was published in 1996 there have, of course, been significant developments in the field of protein chemistry.

From Reviews of the First Edition ".a must for researchers in protein chemistry and especially those with less experience." -Doody's Health Sciences Book Review Journal ".definitely an indispensable benchtop handbook.highly recommended for all levels of research within the field."-Bioseparation ".a very useful tool for daily work." -Nahrung-Food Since publication of the bestselling first edition of John Walker's widely acclaimed Protein Protocols Handbook in 1996, there have been many highly significant developments in protein biochemistry. This greatly enhanced second edition introduces 60 critically important new chapters dealing with topics and techniques that have emerged since the first edition, as well as significantly updating the remaining articles. The new chapters cover many rapidly developing areas, particularly the application of mass spectrometry in protein characterization, as well as the now well-established 2-D PAGE technique in proteomics. The section on glycoprotein analysis has also been significantly expanded, and methods for the production of single-chain and phage-displayed antibodies have been added to the section on antibodies. Each readily reproducible method follows the highly praised format of the Methods in Molecular Biology™ series, offering a concise summary of its basic theory, a complete materials list, a step-by-step protocol for its successful execution, and extensive notes on avoiding pitfalls, or on modifying the method to function within your own experimental circumstances. The authors are commonly the techniques' originators, and each has demonstrated a hands-on mastery of the methods described, always fine-tuning them here for optimal productivity. Comprehensive, cutting-edge, and highly practical, The Protein Protocols Handbook, Second Edition is today's indispensable benchtop manual and guide-not only for all those new to the protein chemistry laboratory, but also for those established workers seeking to broaden their armametarium of techniques in the urgent search for rapid and still more robust results.

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