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Preparative Centrifugation A Practical Approach

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and practical development of sensors and
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throughput detection. This review highlights
several exceptionally promising research
directions and discusses how ...

This edition provides extensive experimental
details of protocols for all types of

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centrifugal separations from macromolecules to whole cells. It also describes the applications of centrifuges ranging from simple bench machines to analytical centrifuges.

While the theoretical basis of centrifugal separations remains the same, recent years have seen dramatic changes in both the design of centrifuges and the range of people that use them. This book reflects these changing uses of preparative centrifuges by providing detailed protocols covering all of the different types of separation from DNA to cells. Guidelines are also given to help the reader devise new types of separation protocols. The book includes program source code for calculation and simulation programs that are invaluable for quantitative centrifugation methods. In addition, this volume contains extensive appendices of valuable data that are required by everyone using centrifuges as part of their research work. *Preparative Centrifugation: A Practical Approach* contains a wealth of guidelines, protocols, and practical advice that will be of direct use to experienced researchers and novices alike in virtually every area of biological research.

An important introduction to the use of the centrifuge in the biology laboratory, *Biological Centrifugation* is also useful for more experienced workers. The book describes

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the background and the principles behind centrifugation, including sedimentation theory. The book also considers the different types of centrifuge and other centrifuge hardware available, density gradient media and gradient technology. Although aimed primarily at the novice, this title also provides information to allow more experienced workers to modify and update existing techniques.

Many investigations into the structure and function of cells and tissues require the isolation of a particular membrane or subcellular component (organelle). This book covers all the necessary aspects, from breaking up the cells (homogenization), via a variety of separation techniques (the isolation and fractionation chapters), to characterization of the separated organelles.

Membrane Analysis provides a comprehensive review of laboratory methods for membrane study, with an emphasis on isolating membranes, analysing their composition and architecture, and investigating membrane function.

This practical, extensively illustrated handbook covers the procedures that are undertaken in andrology and ART laboratories to analyse and assess male-factor

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infertility, and to prepare spermatozoa for use in assisted conception therapy. The content is presented as brief, authoritative overviews of the relevant biological background for each area, plus detailed, step-by-step descriptions of the relevant analytical procedures. Each technical section includes pertinent quality control considerations, as well as the optimum presentation of results. In addition to the comprehensive 'basic' semen analysis, incorporating careful analysis of sperm morphology, the handbook provides established techniques for the use of computer-aided sperm analysis and sperm functional assessment. Throughout the handbook the interpretation of laboratory results in the clinical context is highlighted, and safe laboratory practice is emphasized. It is an invaluable resource to all scientists and technicians who perform diagnostic testing for male-factor infertility.

Introduction to Biological Membranes: Composition, Structure and Function, Second Edition is a greatly expanded revision of the first edition that integrates many aspects of complex biological membrane functions with their composition and structure. A single membrane is composed of hundreds of proteins and thousands of lipids, all in constant flux. Every aspect of membrane structural studies involves parameters that are very small and fast. Both size and time ranges are

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so vast that multiple instrumentations must be employed, often simultaneously. As a result, a variety of highly specialized and esoteric biochemical and biophysical methodologies are often utilized. This book addresses the salient features of membranes at the molecular level, offering cohesive, foundational information for advanced undergraduate students, graduate students, biochemists, and membranologists who seek a broad overview of membrane science. Significantly expanded coverage on function, composition, and structure Brings together complex aspects of membrane research in a universally understandable manner Features profiles of membrane pioneers detailing how contemporary studies originated Includes a timeline of important discoveries related to membrane science

The book is structured in nine sections, each containing several chapters. The volume starts with an overview of analytical techniques and progresses through purification of proteins; protein modification and inactivation; protein size, shape, and structure; enzyme kinetics; protein-ligand interactions; industrial enzymology; and laboratory quality control. The book is targeted at all scientists interested in protein research.

Bringing this best-selling textbook right up to date, the new edition uniquely integrates

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the theories and methods that drive the fields of biology, biotechnology and medicine, comprehensively covering both the techniques students will encounter in lab classes and those that underpin current key advances and discoveries. The contents have been updated to include both traditional and cutting-edge techniques most commonly used in current life science research. Emphasis is placed on understanding the theory behind the techniques, as well as analysis of the resulting data. New chapters cover proteomics, genomics, metabolomics, bioinformatics, as well as data analysis and visualisation. Using accessible language to describe concepts and methods, and with a wealth of new in-text worked examples to challenge students' understanding, this textbook provides an essential guide to the key techniques used in current bioscience research.

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