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Mike Williamson did his PhD and subsequent research at the University of Cambridge before moving to the lab of Nobel Laureate Kurt Wüthrich in Switzerland. There he worked on the first NMR structure of a globular protein. He is a professor of Biochemistry at the University of Sheffield.--This text refers to an alternate kindle_edition edition.

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How Proteins Work is an up-to-date and authoritative account of protein function in living systems, explained within the governing parameters of physics, chemistry, and evolution. This text will enable advanced undergraduate students in biochemistry and biophysics to understand the relationships among protein function, structure, and dynamics. It will also serve as a valuable resource for graduate students and researchers looking for a reference on the fundamentals underlying protein function. By providing an integrated view of proteins at both a cellular and systemic level, this textbook shows how evolution drives proteins to adopt domain structures that combine to achieve biological outcomes. The association of proteins into dimers, molecular machines, and multi-enzymatic complexes enables them to achieve catalytic and functional efficiency.

High-throughputomics' projects such as genome sequencing, structural genomics and proteomics mean that there is no shortage of information on proteins. But the more information we have, the harder it is to

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make sense of it, to know where to start, and to identify the important results. This book is a clear, up to date and authoritative account of

"As will be seen, there is not much missing here. I thought that the sections were well balanced, with rarely too much or too little on a given topic...This is a text to be welcomed by both teachers and students." **BIOCHEMISTRY & MOLECULAR BIOLOGY EDUCATION** (on the first edition) The second edition of this successful textbook explains the basic principles behind the key techniques currently used in the modern biochemical laboratory and describes the pros and cons of each technique and compares one to another. It is non-mathematical, comprehensive and approachable for students who are not physical chemists. A major update of this comprehensive, accessible introduction to physical biochemistry. Includes two new chapters on proteomics and bioinformatics. Introduces experimental approaches with a minimum of mathematics and numerous practical examples. Provides a bibliography at the end of each chapter. Written by an author with many years teaching and research experience, this text is a must-have for students of biochemistry, biophysics, molecular and life sciences and food science.

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informative, thoroughly researched, up-to-date text, with broad coverage and remarkable depth. Introduction to Proteins would provide an excellent basis for an upper-level or graduate course on protein structure, and a valuable addition to the libraries of professionals interested in this centrally important field." —Eric Martz, Biochemistry and Molecular Biology Education, 2012

Introduction to Proteins shows how proteins can be analyzed in multiple ways. It refers to the roles of proteins and enzymes in diverse contexts and everyday applications, including medical disorders, drugs, toxins, chemical warfare, and animal behavior. New features in the thoroughly-updated second edition: A brand-new chapter on enzymatic catalysis, describing enzyme biochemistry, classification, kinetics, thermodynamics, mechanisms, and applications in medicine and other industries. These are accompanied by multiple animations of biochemical reactions and mechanisms, accessible via embedded QR codes (can be viewed by smartphones) An in-depth discussion of G-protein-coupled receptors (GPCRs) A wider-scale description of biochemical and biophysical methods for studying proteins, including fully accessible internet-based resources, such as databases and algorithms Animations of protein dynamics and conformational changes, accessible via embedded QR codes Additional features Extensive discussion of the energetics of protein folding, stability and interactions A comprehensive view of membrane proteins, with emphasis on structure-function relationship Coverage of intrinsically unstructured proteins, providing a complete, realistic view of the proteome and its underlying functions Exploration of industrial applications of protein engineering and rational drug design Approximately 300 color images Downloadable solutions manual available at www.crcpress.com

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Understanding of the interactions of milk proteins in complex food systems continues to progress, resulting in specialized milk-protein based applications in functional foods, and in protein ingredients for specific health applications. Milk Proteins is the first and only presentation of the entire dairy food chain from the source to the nutritional aspects affecting the consumer. With focus on the molecular structures and interactions of milk proteins in various processing methods, Milk Proteins presents a comprehensive overview of the biology and chemistry of milk, as well as featuring the latest science and developments. Significant insight into the use of milk proteins from an industry viewpoint provides valuable application-based information. Those working with food and nutritional research and product development will find this book useful. 20% new chapter content full revision throughout New chapters address: role of milk proteins in human health; aspects of digestion and absorption of milk proteins in the GIT; consumer demand and future trends in milk proteins; and world supply of proteins with a focus on dairy proteins Internationally recognized authors and editors bring academic and industrial insights to this important topic

George lost weight with Stella Style: eating fresh foods, using low-carb ingredients to reinvent your old favorites, developing better eating habits, and, most of all eating food you love! And he wasn't the only one: The entire Stella family shed more than 560 pounds. In Livin' Low Carb, George has brought together more than 125 of the Stella family's favorite recipes. For breakfast there are Blueberry Pancakes or George's Gorgeous Macadamia Banana Muffins. For lunch or dinner try Low-Carb Pizza, Tequila Chicken Quesadillas, Spaghetti Squash Alfredo, Lasagna, Anaheim Shrimp Scampi, and Southern Fried Chicken. And don't forget soups, salads, and vegetables! You'll find recipes here for Key West Caesar Salad, Turkey Vegetable Soup, and Garlic Mock Mashed Potatoes. If it's sweets you crave, try

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Chocolate Pecan Brownies or New York Ricotta Cheesecake. There are also party recipes (Nutty Muddy Trail Mix, Teriyaki Sesame Tuna Skewers), tasty drink concoctions (Strawberry Milkshakes, Lemon-Lime Slushees), and a wide array of condiments and dressings (including Quick and Easy Ketchup and Thousand Island Dressing). These recipes feature easy-to-find, low-carb ingredients that will fit any budget. More than just a cookbook, *Livin' Low Carb* is a practical guide to a sustainable low-carb lifestyle.

Since the discovery of the DNA double helix in 1953, nucleic acids have formed the central theme of much of contemporary molecular science. Nowhere is this more apparent than in the increasing efforts to determine the DNA sequence of the human genome and the development of new diagnostics of genetic disease. Recent sophistication of nucleic acids synthesis has been key to the establishment of the biotechnology industry and our improving knowledge of nucleic acid structures and interactions is noticeably influencing the design of novel drugs. This second and completely revised edition draws on the expertise of the same international group of authors to set the basics of the nucleic acids in the context of the expanding horizons set by modern structural biology, RNA enzymology, drug discovery and biotechnology.

Join the CLEAN PROTEIN revolution and lose weight, feel stronger, and live longer. Food and wellness experts Kathy Freston and Bruce Friedrich have spent years researching the future of protein. They've talked to the food pioneers and the nutrition scientists, and now they've distilled what they've learned into a strength-building plan poised to reshape your body and change your world. Complete with delicious recipes and a detailed guide to food planning, *Clean Protein* explains everything you need to

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know in order to get lean, gain energy, and stay mentally sharp. You'll finally understand in simple terms why protein is essential, how much you should get, and where to find the best sources of it. Clean Protein is a powerful solution to excess weight and chronic health issues, and it's a cultural revolution that will be talked about for decades.

This book brings together current information on the families that make up the kinesin superfamily of molecular motors in one comprehensive text; an ideal reference for researchers looking to make comparisons between different families, for specific information on an individual family, or simply for an overview of the kinesin superfamily. Information is clearly structured and grouped according to individual families and organised in a standardised way, allowing the reader to easily search and retrieve information on this large superfamily of molecular motors and understand how its individual members carry out a diverse variety of cellular functions. Features: The first book dedicated to the entire kinesin superfamily Enables a fuller understanding of this family of proteins, which is becoming an increasing focus of research due to its involvement in diseases such as cancer, neuropathies and ciliopathies. Written in a manner accessible to a range of researchers in the life and medical sciences, including biophysicists, biochemists and medical researchers. Chapter 4 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license. Chapter 11 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

This book describes the methodology and applications of solid-state NMR spectroscopy to studies of membrane proteins, membrane-active peptides and model biological membranes. As well as structural

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studies it contains coverage of membrane interactions and molecular motions. Advances in biological solid-state NMR are very pertinent with high-field developments seeing applications in biological membranes and whole cells. Many of the chapter authors and contributors are world-class experts and leaders in the development and application of biological solid-state NMR. Key Features Addresses principles, methods and applications of solid-state NMR methods to biomembrane studies Introduction to biological solid-state NMR and applications to biological membranes Structure and dynamics of membrane lipids, proteins and peptides NMR studies of membrane interactions and molecular motion

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