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An innovative, tactical, guide to avoid frustration in the biochemical lab! Human Physiology, Biochemistry and Basic Medicine is a unique perspective that draws together human biology, physiology, biochemistry, nutrition, and cell biology in one comprehensive volume. In this way, it is uniquely qualified to address the needs of the emerging field of humanology, a holistic approach to understanding the biology of humans and how they are distinguished from other animals. Coverage starts with human anatomy and physiology and the details of the workings of all parts of the male and female body. Next, coverage of human biochemistry and how sugars, fats, and amino acids are made and digested is discussed, as is human basic medicine, covering the science of diseases and human evolution and pseudo-evolution. The book concludes with coverage of basic human nutrition, diseases, and treatments, and contains broad coverage that will give the reader an understanding of the entire human picture. Covers the physiology, anatomy, nutrition, biochemistry and cell biology of humans, showing how they are distinguished from other animals Includes medical literature and internet references, example test questions, and a list of pertinent words at the end of each chapter Provides unique perspective into all aspects of what makes up and controls humans The second edition of Essentials of Biochemistry has been fully updated to provide medical students with a thorough understanding of the fundamentals of biochemistry. This comprehensive manual covers a multitude of topics within biochemistry, with chapters dedicated to specific diseases such as AIDS and cancer. Each chapter begins with an introductory abstract and keywords, and ends with multiple choice questions and answers to assist learning and revision. Key points Thoroughly revised, new edition providing medical students with fundamentals of biochemistry Each chapter includes multiple choice questions and answers for revision Presents 290 images, illustrations, tables and flow charts Previous edition published in 2008 Biochemistry for Clinical Medicine integrates, in a single volume, all aspects of biochemistry required by a medical student. Biochemistry for Medical Professionals contains pivotal advances in the biochemistry field and provides a resource for professionals across medicine, dentistry, pharmaceutical sciences and health professions who need a concise, topical biochemistry reference. Relevant, well-illustrated coverage begins with the composition of the human body and then goes into the technical detail of the metabolism of the human body and biochemistry of internal organs before featuring a biotechnology study inclusive of numerous methods and applications. The work is written at a consistently high level, with technical notes added to aid comprehension for complex topics. Illustrates disease involvement in metabolic maps Contains coverage of cutting-edge technology, including iPS, HPLC and HPLC-MS, and FACS method Provides in-depth technical detail as well as conceptual frameworks of biochemistry and experimental design in the context of the human organism Includes a biotechnology study, featuring application of basic biochemistry principles Understanding the biochemistry of food is basic to all other research and development in the fields of food science, technology, and nutrition, and the past decade has seen accelerated progress in these areas. Advances in Food Biochemistry provides a unified exploration of foods from a biochemical perspective. Featuring illustrations to elucidate m Guide to Biochemistry provides a comprehensive account of the essential aspects of biochemistry. This book discusses a variety of topics, including biological molecules, enzymes, amino acids, nucleic acids, and eukaryotic cellular organizations. Organized into 19 chapters, this book begins with an overview of the construction of macromolecules from building-block molecules. This text then discusses the strengths of some weak acids and bases and explains the interaction of acids and bases involving the transfer of a proton from an acid to a base. Other chapters consider the effectiveness of enzymes, which can be appreciated through the comparison of spontaneous chemical reactions and enzyme-catalyzed reactions. This book discusses as well structure and function of lipids. The final chapter deals with the importance and applications of gene cloning in the fundamental biological research, which lies in the preparation of DNA fragments containing a specific gene. This book is a valuable resource for biochemists and students. Biochemistry for Materials Science: Catalysis, Complexes and Proteins unlocks recent developments in the field of biochemistry through a series of case studies, enabling materials scientists to harness these advances for innovation in their own field, from the design of bio-inspired materials, to the use of new classes of catalyst. The book is broken up into six independent parts that include an introduction to seven recent discoveries, a discussion of the fundamental knowledge and techniques of biochemistry, a look at a number of biochemical materials, and an exploration of the areas of life science, organic chemistry and inorganic-related materials. The book concludes with a discussion of cosmochemistry. Presents recent developments in biochemistry that can be harnessed for innovation in materials science Utilizes case studies to illustrate the application of various biochemistry concepts Provides readers with the fundamental knowledge of basic chemistry relating to life-forming materials, catalysis, etc. Biochemistry is a single-semester text designed for undergraduate non-biochemistry majors. Accessible, engaging, and informative, Biochemistry is the perfect introduction to the subject for students who may approach chemistry with apprehension. Biochemistry's unique emphasis on metabolism and its kinetic underpinnings gives the text up-to-the-minute relevance for students investigating current public health concerns such as obesity and diabetes. Biochemistry will encourage students to explore the basics of chemistry and its influence on biological problems.Biochemistry provides students with a broad understanding of contemporary advances in molecular biology. Its innovative approach will challenge students to develop connections across multiple concepts, and sets Biochemistry apart in a crowded field. Biochemistry is an invaluable and user-friendly resource.This innovative text for non-biochemistry majors includes:* Introductory material at the beginning of each chapter that contextualizes chapter themes in real-life scenarios* Clear list of objectives for each chapter* Online supporting materials with further opportunities for research and investigation* Synthesis questions at the end of each chapter that encourage students to make connections between concepts and ideas, as well as develop critical-thinking skills Learn BIOCHEMISTRY without stressing out your brain CELLS Trying to understand the chemical processes of living organisms but having trouble metabolizing the complex concepts? Here's your lifeline! Biochemistry Demystified helps synthesize your understanding of this important topic. You'll start with a review of basic chemical concepts and a look at cell structures and cell division. Next, you'll study carbohydrates, lipids, proteins, nucleic acids, nucleotides, and enzymes. Glycolysis, the citric acid cycle, oxidative phosphorylation, and the control of chemical processes round out the coverage. Hundreds of examples and illustrations make it easy to understand the material, and end-of-chapter questions and a final exam help reinforce learning. This fast and easy guide offers: Numerous figures to illustrate key concepts Details on DNA and RNA Coverage of hormones and neurotransmitters A chapter on analytical techniques and bioinformatics A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, Biochemistry Demystified is your key to mastering this vital life sciences subject. This is the premier, single-source reference on redox biochemistry, a rapidly emerging field. This reference presents the basic principles and includes detailed chapters focusing on various aspects of five primary areas of redox biochemistry: antioxidant molecules and redox cofactors; antioxidant enzymes; redox regulation of physiological processes; pathological processes related to redox; and specialized methods. This is a go-to resource for professionals in pharmaceuticals, medicine, immunology, nutrition, and environmental fields and an excellent text for upper-level students. Following its predecessor, the second edition of Amino Acids: Biochemistry and Nutrition presents exhaustive coverage of amino acids in the nutrition, metabolism and health of humans and other animals. Substantially revised, expanded and updated to reflect scientific advances, this book introduces the basic principles of amino acid biochemistry and nutrition, while highlighting the current knowledge of the field and its future possibilities. The book begins with the basic chemical concepts of amino acids, peptides and proteins, and their digestion and absorption. Subsequent chapters cover cell-, tissue-, and species-specific synthesis and catabolism of amino acids and related bioactive metabolites, and the use of isotopes to study amino acids metabolism in cells and the body. The book details protein turnover, physiological functions of amino acids, as well as both the regulation and inborn errors of amino acid metabolism. The book concludes with a presentation on human and animal dietary requirements of amino acids and evaluates dietary protein quality. Features: Encompasses a comprehensive coverage of basic to applied concepts in amino acid metabolism in humans and other animals. Highlights important roles of dietary amino acids and protein intake in growth, physical performance and health, including sarcopenia mitigation and immunity. Discusses concerns over the excess intakes of amino acids or protein in the development of diseases, including cardiovascular disorders, diabetes and cancers, as well as bone integrity Each chapter contains select references to provide comprehensive reviews and original experimental data on the topics discussed. Each chapter is backed by original experimental data on various topics discussed and contains select references to aid the reader further in research. Written by Distinguished Professor of Animal Nutrition, Guoyao Wu, Ph.D., this book is an authoritative reference for students and researchers in both biomedicine and agriculture. Since its inception in 1945, this serial has provided critical and integrating articles written by research specialists that integrate industrial, analytical, and technological aspects of biochemistry, organic chemistry, and instrumentation methodology in the study of carbohydrates. The articles provide a definitive interpretation of the current status and future trends in carbohydrate chemistry and biochemistry. With over 1000 original drawings and 500 photographs, this work offers complete coverage of cell biology, plant physiology and molecular biology. Proteins: Concepts in Biochemistry teaches the biochemical concepts underlying protein structure, evolution, stability, folding, and enzyme kinetics, and explains how interactions in macromolecular structures determine protein function. Intended for a one-semester course in biochemistry or biophysical chemistry with a focus on proteins, this textbo This valuable resource provides a systematic account of the biochemistry of smooth muscle contraction. As a comprehensive guide to this rapidly growing area of research, it covers the structure and characteristic properties of contractile and regulatory proteins, with special emphasis on their predicted function in the live muscle. Also included in this book are intermediate filament proteins, and desmin and vimentin, whose function in smooth muscle is unknown; and several enzymes involved in the phosphorylation-dephosphorylation of contractile and other proteins. Protocols in Biochemistry and Clinical Biochemistry offers clear, applied instruction to fundamental biochemistry methods and protocols, from buffer preparation to nucleic acid purification, protein, lipid, carbohydrate, and enzyme testing, and clinical testing of vitamins, glucose and cholesterol levels, among other diagnostics. Each protocol is illustrated with step-by-step instructions, labeled diagrams, and color images, as well as a thorough overview of materials and equipment, precursor techniques, safety considerations and standards, analysis and statistics, alternative methods and troubleshooting. Includes full listings and discussion of materials and equipment, precursor techniques, safety considerations and standards, analysis and statistics, alternative methods and troubleshooting Features clear, step-by-step protocols and instructions with color diagrams and images This "real-world" approach allows students to come away with a realistically informed view of the basis for much of our understanding of nutritional biochemistry. Gain a full understanding of the principles of biochemistry as it relates to clinical medicine A Doody's Core Title for 2020! The Thirty-First Edition of Harper's Illustrated Biochemistry continues to emphasize the link between biochemistry and the understanding of disease states, disease pathology, and the practice of medicine. Featuring a full-color presentation and numerous medically relevant examples, Harper's presents a clear, succinct review of the fundamentals of biochemistry that every student must understand in order to succeed in medical school. All 58 chapters help you understand the medical relevance of biochemistry: • Full-color presentation includes more than 600 illustrations • Case studies emphasize the clinical relevance of biochemistry • NEW CHAPTER on Biochemistry of Transition Metals addresses the importance and overall pervasiveness of transition metals • Review Questions follow each of the eleven sections • Boxed Objectives define the goals of each chapter • Tables encapsulate important information • Every chapter includes a section on the biomedical importance of a given topic NEW TO THIS EDITION: • Emphasis throughout on the integral relationship between biochemistry and disease, diagnostic pathology, and medical practice • Hundreds of references to disease states throughout • New chapter addressing the biochemical roles of transition metals • Many updated review questions • Frequent tables summarizing key links to disease states • New text on cryo-electron microscopy (cryo-EM) • Cover picture of the protein structure of the Zika virus, solved by cryo-EM Applauded by medical students and online reviewers for its currency and engaging style, Harper's Illustrated Biochemistry is essential for USMLE® review and the single-best reference for learning the clinical relevance of any biochemistry topic. The seventh edition of this book is a comprehensive guide to biochemistry for medical students. Divided into six sections, the book examines in depth topics relating to chemical basics of life, metabolism, clinical and applied biochemistry, nutrition, molecular biology and hormones. New chapters have been added to this edition and each chapter includes clinical case studies to help students understand clinical relevance. A 274-page free booklet of revision exercises (9789350906378), providing essay questions, short notes, viva voce and multiple choice questions is included to help students in their exam preparation. Free online access to additional clinical cases, key concepts and an image bank is also provided. Key points Fully updated, new edition providing students with comprehensive guide to biochemistry Includes a free booklet of revision exercises and free online access Highly illustrated with nearly 1500 figures, images, tables and illustrations Previous edition published in 2010 Medical Biochemistry, Second Edition covers the structure and physical and chemical properties of hydrocarbons, lipids, proteins and nucleotides in a straightforward and easy to comprehend language. The book develops these concepts into the more complex aspects of biochemistry using a systems approach, dedicating chapters to the integral study of biological phenomena, including particular aspects of metabolism in some organs and tissues, the biochemical bases of endocrinology, immunity, vitamins, hemostasis, autophagy and apoptosis. Additionally, the book has been updated with full-color figures, chapter summaries, and further medical examples to improve learning and illustrate the concepts described in the book. Sections cover bioenergetics and metabolic syndromes, antioxidants to treat disease, plasma membranes, ATPases and monocarboxylate transporters, the human microbiome, carbohydrate and lipid metabolism, autophagy, virology and epigenetics, non-coding, small and long RNAs, protein misfolding, signal transduction pathways, vitamin D, cellular immunity and apoptosis. Integrates basic biochemistry principles with molecular biology and molecular physiology Illustrates basic biochemical concepts through medical and physiological examples Utilizes a systems approach to understanding biological phenomena Fully updated for recent studies and expanded to include clinically relevant examples and succinct chapter summaries Divided into five major parts, the two volumes of this ready reference cover the tailoring of theoretical methods for biochemical computations, as well as the many kinds of biomolecules, reaction and transition state elucidation, conformational flexibility determination, and drug design. Throughout, the chapters gradually build up from introductory level to comprehensive reviews of the latest research, and include all important compound classes, such as DNA, RNA, enzymes, vitamins, and heterocyclic compounds. The result is in-depth and vital knowledge for both readers already working in the field as well as those entering it. Includes contributions by Prof. Ada Yonath (Nobel Prize in Chemistry 2009) and Prof. Jerome Karle (Nobel Prize in Chemistry 1985). From its early beginnings in the 1960s, the academic field of biochemistry of exercise has expanded beyond examining and describing metabolic responses to exercise and adaptations to training to include a wide understanding of molecular biology, cell signalling, interorgan communication, stem cell physiology, and a host of other cellular and biochemical mechanisms regulating acute responses and chronic adaptations related to exercise performance, human health/disease, nutrition, and cellular functioning. The Routledge Handbook on Biochemistry of Exercise is the first book to pull together the full depth and breadth of this subject and to update a rapidly expanding field of study with current issues and controversies and a look forward to future research directions. Bringing together many experts and leading scientists, the book emphasizes the current understanding of the underlying metabolic, cellular, genetic, and cell signalling mechanisms associated with physical activity, exercise, training, and athletic performance as they relate to, interact with, and regulate cellular and muscular adaptations and consequent effects on human health/disease, nutrition and weight control, and human performance. With more emphasis than ever on the need to be physically active and the role that being active plays in our overall health from a whole-body level down to the cell, this book makes an important contribution for scholars, medical practitioners, nutritionists, and coaches/trainers working in research and with a wide range of clients. This text is important reading for all students, scholars, and others with an interest in health, nutrition, and exercise/training in general. "Biochemistry, Second Edition is a learning tool for students and a teaching tool for instructors-one that delivers exceptionally readable explanations, stunning graphics, and rigorous content.

Relevant everyday biochemistry examples make clear why biochemistry matters in a way that develops students' knowledge base and critical thinking skills. The second edition includes exciting new Your Turn critical thinking pedagogy, a thoughtful balance of biology and chemistry, and new research in the field such as CRISPR and cryo-EM"-- This textbook, Essentials of Biochemistry is aimed at chemistry and biochemistry undergraduate students and first year biochemistry graduate students. It incorporates the lectures of the authors given to students with a strong chemistry background. An emphasis is placed on metabolism and reaction mechanisms and how they are studied. As the title of the book implies, the text lays the basis for an understanding of the fundamentals of biochemistry. "There is a continuing demand for up to date organic & bio-organic chemistry undergraduate textbooks. This well planned text builds upon a successful existing work and adds content relevant to biomolecules and biological activity". -Professor Philip Page, Emeritus Professor, School of Chemistry University of East Anglia, UK "Introduces the key concepts of organic chemistry in a succinct and clear way". -Andre Cobb, KCL, UK Reactions in biochemistry can be explained by an understanding of fundamental organic chemistry principles and reactions. This paradigm is extended to biochemical principles and to myriad biomolecules. Biochemistry: An Organic Chemistry Approach provides a framework for understanding various topics of biochemistry, including the chemical behavior of biomolecules, enzyme activity, and more. It goes beyond mere memorization. Using several techniques to develop a relational understanding, including homework, this text helps students fully grasp and better correlate the essential organic chemistry concepts with those concepts at the root of biochemistry. The goal is to better understand the fundamental principles of biochemistry. Features: Presents a review chapter of fundamental organic chemistry principles and reactions. Presents and explains the fundamental principles of biochemistry using principles and common reactions of organic chemistry. Discusses enzymes, proteins, fatty acids, lipids, vitamins, hormones, nucleic acids and other biomolecules by comparing and contrasting them with the organic chemistry reactions that constitute the foundation of these classes of biomolecules. Discusses the organic synthesis and reactions of amino acids, carbohydrates, nucleic acids and other biomolecules. This book covers in detail the mechanisms for how energy is managed in the human body. The basic principles that elucidate the reactivity and physical interactions of matter are addressed and quantified with simple approaches. Three-dimensional representations of molecules are presented throughout the book so molecules can be viewed as unique entities in their shape and function. The book is focused on the molecular mechanisms of cellular processes in the context of human physiological situations such as fasting, feeding and physical exercise, in which metabolic regulation is highlighted. Furthermore the book uses key historical experiments that opened up new concepts in biochemistry to further illustrate how the human body functions at molecular level, helping students to appreciate how scientific knowledge emerges. New to this edition: - 30 challenging practical case studies (2-3 at the end of each chapter) based on movies, novels, biographies, documentaries, paintings, and other cultural and artistic creations far beyond canonic academic exercises. - A set of challenging questions and problems in the end of each case study to further engage students with the applications of medical biochemistry - Insights into the answers to the challenging questions to help steer teaching/learning interactions key to productive lectures, PBL (problem-based learning) or traditional tutorials, or e-learning approaches. Advance praise for the second edition: "The Challenging Cases are compelling both from a scientific viewpoint and for the perspective they provide on the history of medicine." David M. Jameson, University of Hawaii "Using case studies to reinforce the biochemistry lessons is extremely effective – as well as entertaining!" Joseph P. Albanesi, UT Southwestern Medical Center Advance Praise for the first edition: "This textbook provides a modern and integrative perspective of human biochemistry and will be a faithful companion to health science students following curricula in which this discipline is addressed. This textbook will be a most useful tool for the teaching community." Joan Guinovart Former director of the Institute for Research in Biomedicine, Barcelona, Spain, and former president of the International Union of Biochemistry and Molecular Biology, IUBMB The Biochemistry of Plants: A Comprehensive Treatise, Volume 11: Biochemistry of Metabolism provides information pertinent to the chemical and biochemical aspects of metabolism. This book discusses the control mechanisms of metabolism. Organized into nine chapters, this volume begins with an overview of the history of biochemistry and discusses the developments in the kinetics of regulatory enzymes. This text then examines a theory that explains how subunit interactions modulate the rate of conversion of a substrate into a product. Other chapters consider some relation between cell-wall elongation and cell-wall charge density and explore the subcellular localization of the enzymes of glycolysis. This book discusses as well the regulation of glycolysis and the pentose phosphate pathway. The final chapter deals with the pathways of C1 metabolism that are of prime importance, as the synthesis of several cellular constituents depends directly or indirectly on folate metabolism. This book is a valuable resource for plant biochemists, neurobiochemists, molecular biologists, senior graduate students, and research workers. An exploration of the most complex microbial ecosystems with incisive reviews of developments in soil science. It presents techniques of chemical analysis, refinements of environmental protection measures, and methods for maximizing agricultural yields. It also addresses a wide range of biochemical processes and practical applications of advanced biotechnologies. Biochemistry: An Integrative Approach is addressed to premed, biochemistry, and life science majors taking a one-semester biochemistry course. This version includes the first 12 chapters and should only be used for one-semester biochemistry courses. Biochemistry addresses the diverse needs of premed, biochemistry, and life science majors by presenting relevant material while still preserving a chemical perspective. Presented within the next generation of WileyPLUS, Biochemistry emphasizes worked problems through video walkthroughs, interactive elements and expanded end-of-chapter problems with a wide range of subject matter and difficulty. The worked problems in the course are both qualitative and quantitative and model for students the biochemical reasoning they need to practice. Students will often be asked to analyze data and make critical assessments of experiments. Biochemistry for Health Professionals is a concise introductory text integrating biochemistry with physiology and cell biology and is aimed specifically at introductory health science students. It assumes no prior knowledge and covers some molecular biology and chemistry basics. The text is accompanied by a wealth of resources for both students and instructors via the evolve platform. Concise writing, a focus on clinical applications, and superb illustrations make Netter's Essential Biochemistry, by Peter Ronner, PhD, the perfect choice for a basic understanding of biochemistry.. A single expert voice, informed by the insights of a team of reviewers, provides continuity throughout the text, presenting essentials of biochemical principles step by step. Summary diagrams help you grasp key concepts quickly, and end-of-chapter questions reinforce key concepts. Provides a highly visual, reader-friendly approach to the challenging area of biochemistry. Integrates the clinical perspective throughout the text, giving context and meaning to biochemistry. Frames every chapter with helpful synopses and summaries, and ends each chapter with review questions that reinforce major themes. Illustrates key concepts with beautifully clear drawings and diagrams of biochemical processes which are supplemented with art from the renowned Netter collection, bridging basic sciences with clinical practice. Sweet Biochemistry: Remembering Structures, Cycles, and Pathways by Mnemonics makes biochemistry lively, interesting and memorable. by connecting objects, images and stories. Dr. Kumari has converted cycles and difficult pathways into very simple formula, very short stories and images which will help readers see familiar things in complicated cycles and better visualize biochemistry. Provides quick, indigenous formulas, mnemonics, figures and short stories to help users simply recollect the study of biochemistry Gives unique descriptions of the difficult areas in biochemistry and new ways of remembering a pathway or structure Presents original diagrams that resonate and are easy to recall Now fully revised and updated, Clinical Biochemistry, third edition is essential reading for specialty trainees, particularly those preparing for postgraduate examinations. It is also an invaluable current reference for all established practitioners, including both medical and scientist clinical biochemists. Building on the success of previous editions, this leading textbook primarily focuses on clinical aspects of the subject, giving detailed coverage of all conditions where clinical biochemistry is used in diagnosis and management - including nutritional disorders, diabetes, inherited metabolic disease, metabolic bone disease, renal calculi and dyslipidaemias. The acquisition and interpretation of clinical biochemical data are also discussed in detail. Expanded sections on haematology and immunology for clinical biochemists provide a thorough understanding of both laboratory and clinical aspects New chapters are included on important evolving areas such as the metabolic response to stress, forensic aspects of clinical biochemistry and data quality management An extended editorial team - including three expert new additions - ensures accuracy of information and relevance to current curricula and clinical practice A superb new accompanying electronic version provides an enhanced learning experience and rapid reference anytime, anywhere! Elsevier ExpertConsult.com Enhanced eBooks for medical professionals Compatible with PC, Mac®, most mobile devices and eReaders, browse, search, and interact with this title - online and offline. Redeem your PIN at expertconsult.com today! Straightforward navigation and search across all Elsevier titles Seamless, real-time integration between devices Adjustable text size and brightness Notes and highlights sharing with other users through social media Interactive content This book provides a concise and structured approach to learning by the subject in an easy to comprehend and systematic format. The content for the book is presented as per the guidelines of Medical Council of India and health universities across the country. It is designed specifically to meet the needs of 1st year students pursuing BDS. It is also useful for nursing, pharmacy and other allied health students. Salient Features Each topic begins with outline of the essential facts Text is followed by more detailed exposition,with special emphasis on clear and simple figures and flowcharts Presentation of self-explanatory and easy to learn diagrams. More emphasis on key points, helps to recollect things easily Special Features: Complimentary access to enhanced e-book with digital assets: University exam-patterned MCQs Lecture videos Procedural videos This book summarizes the research that resulted in aspartame's approval as a food additive as well as related topics regarding its function as a potential sweetening agent. It complies specific issues relating to human consumption of aspartame. Sorghum Biochemistry: An Industrial Perspective explores the many uses for sorghum in industry and biofuels. Not only does it offer a detailed understanding of the physical and biochemical qualities of the grain, it also takes an in-depth look at the role sorghum plays in such industries as brewing and ethanol production and the mechanics of post-harvest processing and value addition. Sorghum has long been an important staple in Africa and Asia, but its value goes far beyond its uses in human and animal consumption. Sorghum is also used in many industries, including waxes, packing material, wall board, ethanol, beverages, and brewing, and one variety called sweet sorghum has also been used as a bioenergy crop. Sorghum Biochemistry: An Industrial Perspective offers a closer look at how the grain is used in such a variety of ways, and how we can continue to optimize its potential. Provides detailed biochemical studies on grain sorghum to inform researchers grappling with similar issues Offers foundational information on the quality and composition of sorghum as a grain Covers a variety of uses for sorghum in many industries, including food and beverage, energy, and brewing Includes photos and illustrations to enhance the understanding of processes and sorghum biochemistry This book has been written in part with the aim of providing a text which will be useful in teaching the biochemical applications of spectroscopy. This book will be of particular use to the biochemist or biologist who does not have a background in spectroscopy, but desires to find out what sort of information spectroscopy can provide. Attention was limited to those techniques most frequently used, and which at present have the widest applications. Chemistry and Biochemistry of Flavoenzymes summarizes the present knowledge of the chemical and physical properties of free flavin, modified flavins occurring in nature, and deazaflavin. This information forms the fundamental basis for understanding the catalytic properties of flavoenzymes. Flavoproteins involved in transport, electron transfer, oxidation, dehydrogenation and hydroxylation reactions are discussed with respect to their biochemical and biophysical properties. The book presents the catalytic mechanisms of the flavoproteins in detail and, where available, three-dimensional structures and molecular biology data are included. The medical aspects of free and protein-bound flavin are also briefly discussed. Chemistry and Biochemistry of Flavoenzymes is an essential reference source for chemists, biochemists, toxicologists, biologists, pharmacologists, and researchers in the pharmaceutical industry.

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