

Harpers Biochemistry

gain a thorough understanding of the principles of biochemistry and molecular biology as they relate to modern medicine includes 16 case histories clear concise and in full color harper s illustrated biochemistry is unrivaled in its ability to clarify the link between biochemistry and the molecular basis of disease combining outstanding full color illustrations with integrated coverage of biochemical diseases and clinical information harper s offers an organization and careful balance of detail and brevity not found in any other text on the subject following two introductory chapters the text is divided into six main sections section i addresses the structures and functions of proteins and enzymes section ii explains how various cellular reactions utilize or release energy and traces the pathways by which carbohydrates and lipids are synthesized and

degraded section iii covers the amino acids their metabolic fates certain features of protein catabolism and the biochemistry of the porphyrins and bile pigments section iv describes the structure and function of nucleotides and nucleic acids dna replication and repair rna synthesis and modification protein synthesis the principles of recombinant dna technology and new understanding of how gene expression is regulated section v deals with aspects of extracellular and intracellular communication section vi includes fifteen special topics ranging from nutrition digestion and absorption to the biochemistry of aging new to this edition new chapters on aging cancer and clinical chemistry every chapter has been updated to reflect the latest advances in knowledge and technology each chapter now begins with a statement of objectives followed by a brief discussion of the biomedical importance of topics discussed within the chapter 250 multiple choice questions to test your knowledge and comprehension increased number of tables that encapsulate important information such as vitamin and mineral requirements

the biochemistry text that every medical student must own now in full color comprehensive concise and up to date harper s is unrivaled in its ability to clarify the link between biochemistry and the molecular basis of health and disease the twenty eighth edition has undergone sweeping changes including a conversion to full color artwork and the substantial revision and updating of every chapter all to reflect the latest advances in knowledge and technology and to make the text as up to date and clinically relevant as possible combining outstanding full color illustrations with integrated coverage of biochemical diseases and clinical information harper s illustrated biochemistry offers an organization and clarity not found in any other text on the subject striking just the right balance between detail and brevity harpers illustrated biochemistry is essential for usmle review and is the single best reference for learning the clinical relevance of a biochemistry topic new to this edition full color presentation including 600 illustrations every chapter opens with a summary of the biomedical importance and concludes with a summary reviewing the topics covered two all new chapters free radicals and antioxidant nutrients and biochemical case histories which offers an extensive presentation of 16 clinical conditions a new appendix containing basic clinical laboratory results and an updated one with a list of important websites and online journals new or updated coverage of important topics including the human genome project and computer aided drug delivery

gain a full understanding of the principles of biochemistry as it relates to clinical medicine a doody s core title for 2021 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

up to date succinct and medically relevant harper s biochemistry offers concise yet authoritative coverage of the principles of biochemistry and molecular biology not only is this an excellent text on biochemistry it also gives you the essentials in molecular biology the book has excellent illustrations and even focuses on many clinical aspects online student review of the 25th edition reflects the significant advances in biochemistry that are important to medicine includes new chapters on amino acids and peptides primary structure of proteins and the human genome project new and expanded coverage of the mechanisms of action of enzymes receptors involved in lipoprotein metabolism and reverse cholesterol transport rna synthesis gene regulation molecular mechanisms of hormone action and pharmacogenomics includes clinical correlations and chapter summaries more than 500 clear descriptive illustrations

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