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New and updated end-of-chapter questions—all available in the Achieve problem library with error-specific feedback and thorough solutions. These questions went through a rigorous development process to ensure they were robust, engaging and accurate. Lehninger Principles of Biochemistry, 8e continues to help students navigate the complex discipline of biochemistry with a clear and coherent presentation. Renowned authors David Nelson, Michael Cox, and new co-author Aaron Hoskins have focused this eighth edition around the fundamental principles to help students understand and navigate the most important aspects of biochemistry. Text features and digital resources in the new Achieve platform emphasize this focus on the principles, while coverage of recent discoveries and the most up-to-date research provide fascinating context for learning the dynamic discipline of biochemistry. 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Achieve supports educators and students throughout the full range of instruction, including assets suitable for pre-class preparation, in-class active learning, and post-class study and assessment. The pairing of a powerful new platform with outstanding biochemistry content provides an unrivaled learning experience. Contents Preface viii1. The Foundations of BiochemistryI STRUCTURE AND CATALYSIS2. Water, the Solvent of Life3. Amino Acids, Peptides, and Proteins4. The Three-Dimensional Structure of Proteins5. Protein Function6. Enzymes7. Carbohydrates and Glycobiology8. Nucleotides and Nucleic Acids9. DNA-Based Information Technologies10. Lipids11. Biological Membranes and Transport12. Biochemical SignalingII BIOENERGETICS AND METABOLISM13. Introduction to Metabolism14. Glycolysis, Gluconeogenesis, and the Pentose Phosphate Pathway15. The Metabolism of Glycogen in Animals16. The Citric Acid Cycle17. Fatty Acid Catabolism18. Amino Acid Oxidation and the Production of Urea19. Oxidative Phosphorylation20. Photosynthesis and Carbohydrate Synthesis in Plants21. Lipid Biosynthesis22. Biosynthesis of Amino Acids, Nucleotides, and Related Molecules23. Hormonal Regulation and Integration of Mammalian MetabolismIII INFORMATION PATHWAYS24. Genes and Chromosomes25. DNA Metabolism26. RNA Metabolism27. Protein Metabolism28. Regulation of Gene ExpressionAbbreviated Solutions to ProblemsGlossary Customer Reviews David L. Nelson is Professor in the Department of Biochemistry at the University of Wisconsin, Madison. He is also the Academic Program Director for university's Institute for Cross-college Biology Education, born in Fairmont, Minnesota, received his BS in chemistry and biology from St. Olaf College in 1964 and earned his PhD in biochemistry at Stanford Medical School, under Arthur Kornberg. He was a postdoctoral fellow at the Harvard Medical School with Eugene P. Kennedy, who was one of Albert Lehninger's first graduate students. Nelson joined the faculty of the University of Wisconsin–Madison in 1971 and became a full professor of biochemistry in 1992. He was for eight years Director of the Center for Biology Education at the University of Wisconsin–Madison. He became Professor Emeritus in 2013. Michael M. Cox was born in Wilmington, Delaware. After graduating from the University of Delaware in 1974, Cox went to Brandeis University to do his doctoral work with William P. Jencks, and then to Stanford in 1979 for postdoctoral study with I. Robert Lehman. He moved to the University of Wisconsin–Madison in 1983, and became a full professor of biochemistry in 1992. His research focuses on recombinational DNA repair processes. In addition to the work on this text, Cox is a co-author of four editions of Lehninger Principles of Biochemistry. He has received awards for both his teaching and his research, including the 1989 Eli Lilly Award in Biological Chemistry, and two major teaching awards from the University of Wisconsin and the University of Wisconsin System. Hobbies include travel, gardening, wine collecting, and assisting in the design of laboratory buildings.

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