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© 1996, Amazon.com, Inc. ou suas afiliadas "This chapter provides excellent detail on all of the topics covered. Material presented is current and accurate. The key concepts at the end of each section are well written and provide appropriately succinct synopses of the material." Jamie Siders Sanford "Well integrated focus on evolution and the why the genome is arranged the way it is - even in cases where answers are somewhat speculative. I really liked this part, I was able to follow the figures demonstrating mechanisms (e.g., transposon copying) without even much reference to the legends - thus I felt these were well done." Wendy Hanna-Rose "[Cell] biology without the detail is...high school, not college level - so overall great job. Love the rigor and the discussion." Philip Santangelo "1) engagingly written 2) lots of beautiful fluorescence micrographs 3) I liked that the emphasis was on microtubules (a huge literature), rather than all cytoskeletal elements being covered in a single chapter 4) inclusion of experimental approaches that led to a particular finding or model." Susan Spencer "1) The art is amazing 2) It is comprehensive 3) It is up-to-date. 4) I really appreciate the section on primary cilium." Richard Londryville "The content is definitely well-presented with excellent writing in a student-friendly writing style. The Overview of the Cell Cycle is excellent. The information is told like a story, very effective." Hao Nguyen "The cell cycle overview in the beginning sets up the rest of the Chapter quite well. The level of detail between molecular mechanism and cellular processes or behavior of macromolecules throughout the cell cycle is well balanced." Salil Lachke Look Inside Molecular Cell Biology Ninth Edition! © 2021 Harvey Lodish; Arnold Berk; Chris A. Kaiser; Monty Krieger; Anthony Bretscher; Hidde Ploegh; Kelsey C. Martin; Michael Yaffe; Angelika Amon Achiieve is a comprehensive set of interconnected teaching and assessment tools that incorporate the most effective elements from Macmillan Learning's market-leading solutions in a single, easy-to-use platform. Schedule Achieve Demo Go to Achieve Read online (or offline) with all the highlighting and notetaking tools you need to be successful in this course. Learn About E-book Look Inside Molecular Cell Biology Ninth Edition! 2021 Harvey Lodish; Arnold Berk; Chris A. Kaiser; Monty Krieger; Anthony Bretscher; Hidde Ploegh; Kelsey C. Martin; Michael Yaffe; Angelika Amon Molecules, Cells, and Model Organisms Chemical Foundations Protein Structure and Function Culturing and Visualizing Cells Fundamental Molecular Genetic Mechanisms Molecular Genetic Techniques Genes and Genomics Transcriptional Control of Gene Expression Post-Transcriptional Gene Control Biomembrane Structure Transmembrane Transport of Ions and Small Molecules Cellular Energetics Moving Proteins into Membranes and Organelles Vesicular Traffic, Secretion, and Endocytosis Cell Signaling I Growth Factor and Cytokine Signaling Cell Organization and Movement I Cell Organization and Movement II The Eukaryotic Cell Cycle Integrating Cells into Tissues Responding to the Cellular Environment Stem Cells, Cell Asymmetry, and Cell Death Nerve Cells Immunology Cancer Eu virtude de aprimoramentos na segurança da nossas aplicações, infelizmente seu comportamento nos fez pensar que você é um robô. Se você está tentando acessar este site usando uma rede privada/proxy/VPN, desative-a e tente acessar o site novamente. Devido ao comportamento detectado anteriormente, originado da rede que você está usando, solicite o desbloqueio do site. Click to have a closer look About this book Contents Biography with its acclaimed author team, cutting-edge content, emphasis on medical relevance, and coverage based on key experiments. Molecular Cell Biology has justly earned an impeccable reputation as an exciting and authoritative text. Avoiding an encyclopedic approach, Molecular Cell Biology grounds its coverage in the experiments that define our understanding of cell biology, engaging students with the exciting breakthroughs that define the field's history and point to its future. The authors, all world-class researchers and teachers, incorporate medically relevant examples where appropriate to help illustrate the connections between cell biology and health and human disease. New to the 8th edition: New co-author, Kelsey Martin, UCLA Revised, cutting edge content. More accessible coverage of cell signaling: New and enhanced molecular models Contents Part I. Chemical and Molecular Foundations1. Molecules, Cells, and Model Organisms2. Chemical Foundations3. Protein Structure and Function4. Culturing and Visualizing CellsPart II. Biomembranes, Genes, and Gene Regulation5. Fundamental Molecular Genetic Mechanisms6. Molecular Genetic Techniques7. Biomembrane Structure8. Genes, Genomics, and Chromosomes9. Transcriptional Control of Gene Expression10. Post-transcriptional Gene ControlPart III. Cellular Organization and Function11. Transmembrane Transport of Ions and Small Molecules12. Cellular Energetics13. Moving Proteins into Membranes and Organelles14. Vesicular Traffic, Secretion, and Endocytosis15. Signal Transduction and G Protein-Coupled Receptors16. Signaling Pathways That Control Gene Expression17. Cell Organization and Movement I: Microfilaments18. Cell Organization and Movement II: Microtubules and Intermediate Filaments19. The Eukaryotic Cell CyclePart IV. Cell Growth and Differentiation20. Integrating Cells Into Tissues21. Stem Cells, Cell Asymmetry, and Cell Death22. Cells of the Nervous System23. Immunology24. Cancer Customer Reviews Harvey Lodish is Professor of Biology and Professor of Bioengineering at the Massachusetts Institute of Technology and a member of the Whitehead Institute for Biomedical Research. Dr. Lodish is also a member of the National Academy of Sciences and the American Academy of Arts and Sciences and was President (2004) of the American Society for Cell Biology. He is well known for his work on cell membrane physiology, particularly the biosynthesis of many cell-surface proteins, and on the cloning and functional analysis of several cell-surface receptor proteins, such as the erythropoietin and TGF- β receptors. His lab also studies hematopoietic stem cells and has identified novel proteins that support their proliferation. Dr. Lodish teaches undergraduate and graduate courses in cell biology and biotechnology. Arnold Berk is Professor of Microbiology, Immunology and Molecular Genetics and a member of the Molecular Biology Institute at the University of California, Los Angeles. Dr. Berk is also a fellow of the American Academy of Arts and Sciences. He is one of the original discoverers of RNA splicing and of mechanisms for gene control in viruses. His laboratory studies the molecular interactions that regulate transcription initiation in mammalian cells, focusing particular attention on transcription factors encoded by oncogenes and tumor suppressors. He teaches introductory courses in molecular biology and virology and an advanced course in cell biology of the nucleus. Chris A. Kaiser is Professor and Head of the Department of Biology at the Massachusetts Institute of Technology. His laboratory uses genetic and cell biological methods to understand the basic processes of how newly synthesized membrane and secretory proteins are folded and stored in the compartments of the secretory pathway. Dr. Kaiser is recognized as a top undergraduate educator at MIT, where he has taught genetics to undergraduates for many years. Monty Krieger is the Whitehead Professor in the Department of Biology at the Massachusetts Institute of Technology. For his innovative teaching of undergraduate biology and human physiology as well as graduate cell biology courses, he has received numerous awards. His laboratory has made contributions to our understanding of membrane trafficking through the Golgi apparatus and has cloned and characterized receptor proteins important for the movement of cholesterol into and out of cells, including the HDL receptor. Anthony Bretscher is Professor of Cell Biology at Cornell University. His laboratory is well known for identifying and characterizing new components of the actin cytoskeleton, and elucidating their biological functions in relation to cell polarity and membrane traffic. For this work, his laboratory exploits biochemical, genetic and cell biological approaches in two model systems, vertebrate epithelial cells and the budding yeast. Dr. Bretscher teaches cell biology to graduate students at Cornell University. Hidde Ploegh is Professor of Biology at the Massachusetts Institute of Technology and a member of the Whitehead Institute for Biomedical Research. One of the world's leading researchers in immune system behavior, Dr. Ploegh studies the various tactics that viruses employ to evade our immune responses, and the ways in which our immune system distinguishes friend from foe. Dr. Ploegh teaches immunology to undergraduate students at Harvard University and MIT. Angelika Amon is Professor of Biology at the Massachusetts Institute of Technology, a member of the Koch Institute for Integrative Cancer Research, and Investigator at the Howard Hughes Medical Institute. She is also a member of the National Academy of Sciences. Her laboratory studies the molecular mechanisms that govern chromosome segregation during mitosis and meiosis and the consequence - aneuploidy - when these mechanisms fail during normal cell proliferation and cancer development. Dr. Amon teaches undergraduate and graduate courses in cell biology and genetics. Kelsey Martin is Professor of Biological Chemistry and Psychiatry and interim Dean of the David Geffen School of Medicine at the University of California, Los Angeles. She is the former Chair of the Biological Chemistry Department. Her laboratory studies the ways in which experience changes connections between neurons in the brain to store long-term memories - a process known as synaptic plasticity. She has made important contributions to elucidating the molecular and cell biological mechanisms that underlie this process. Dr. Martin teaches basic principles of neuroscience to undergraduates, graduate students, dental students, and medical students.

