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Autor: Lodish, Harvey (Varios)

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Sinopsis

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Molecular Cell Biology presents the key concepts in cell biology and their experimental underpinnings. 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. As always, a hallmark of Molecular Cell Biology is the use of experiments to engage students in the history of cell biology and the research that has contributed to the field.

New Co-Author, Angelika Amon:

The new edition of Molecular Cell Biology introduces a new member to our author team, respected researcher and teacher Angelika Amon of the Massachusetts Institute of Technology. Dr. Amon is an Investigator at the Howard Hughes Medical Institute as well as a member of the Koch Institute for Integrative Cancer Research and the National Academy of Sciences. Her laboratory studies the molecular mechanisms that govern chromosome segregation during mitosis and meiosis and the consequences when these mechanisms fail during normal cell proliferation and cancer development.

Increased Clarity, Improved Pedagogy:

In the new edition, the authors have scrutinized every chapter with an eye toward bringing out key concepts and making connections easier to follow. Perennially challenging topics, such as cellular energetics, cell signaling and immunology, have been revised to improve student understanding. Coverage of developmental biology has been streamlined to focus on just those key areas central to cell biology courses. Every figure in the book was reconsidered and, if possible, simplified to highlight key lessons. Revised end-of-chapter materials include new questions, including additional Analyze the Data problems to give students added practice at interpreting experimental evidence.