



Molecular Biology: Principles of Genome Function

Nancy Craig, Rachel Green, Carol Greider, Gisela Storz, Cynthia Wolberger, Orna Cohen-Fix

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The biological world operates on a multitude of scales - from molecules to tissues to organisms to ecosystems. Throughout these myriad levels runs a common thread: the communication and onward passage of information, from cell to cell, from organism to organism and ultimately, from generation to generation. But how does this information come alive to govern the processes that constitute life? The answer lies in the molecular components that cooperate through a series of carefully-regulated processes to bring the information in our genome to life. These components and processes lie at the heart of one of the most fascinating subjects to engage the minds of scientists today: molecular biology.

Molecular Biology: Principles of Genome Function, Second Edition, offers a fresh approach to the teaching of molecular biology by focusing on the commonalities that exist between the three kingdoms of life, and discussing the differences between the three kingdoms to offer instructive insights into molecular processes and components. This gives students an accurate depiction of our current understanding of the conserved nature of molecular biology, and the differences that underpin biological diversity. Additionally, an integrated approach demonstrates how certain molecular phenomena have diverse impacts on genome function by presenting them as themes that recur throughout the book, rather than as artificially separated topics

As an experimental science, molecular biology requires an appreciation for the approaches taken to yield the information from which concepts and principles are deduced. Experimental Approach panels throughout the text describe research that has been particularly valuable in elucidating difference aspects of molecular biology. Each panel is carefully cross-referenced to the discussion of key molecular biology tools and techniques, which are presented in a dedicated chapter at the end of the book. Molecular Biology further enriches the learning experience with full-color artwork, end-of-chapter questions and summaries, suggested further readings grouped by topic, and an extensive glossary of key terms.

Features:

A focus on the underlying principles of molecular biology equips students with a robust conceptual framework on which to build their knowledge

An emphasis on their commonalities reflects the processes and components that exist between bacteria, archae, and eukaryotes

Experimental Approach panels demonstrate the importance of experimental evidence by describing research that has been particularly valuable in the field

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