



# Genes VII

*Benjamin Lewin*

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## **Genes VII** Benjamin Lewin

Oxford University Press is proud to present GENES VII--the latest edition of Benjamin Lewin's best-selling textbook. This authoritative work provides an integrated account of the structure and function of genes and incorporates all the latest research in the field.

### THE MOST SIGNIFICANT REORGANIZATION TO DATE

The power of direct analysis of the genome has made a significant difference in the approach of GENES VII. In a departure from previous editions, which started with a traditional analysis of formal genetics, the new edition begins with the molecular properties of the gene itself. The text is now reorganized to begin with the concept of genes as a segment of DNA coding for protein, and then proceeds directly to the characterization of the genome in terms of its content of genes.

### INTEGRATED APPROACH

GENES VII first explains the structure and function of the gene as a means to revealing the operation of the genome as a whole, and offers an integrated approach to prokaryotes and eukaryotes. The gene is considered from all aspects, including:

- \* Basic forms
- \* The numbers and relationships among genes in a genome
- \* Their packaging into chromosomes
- \* The process of gene expression from transcription through translation
- \* The reproduction and safeguarding of the gene structure
- \* Aspects of the overall circuitry through which genotype determines phenotype

### STREAMLINED, FULL-COLOR DESIGN

GENES VII has been considerably restructured and reorganized to highlight the latest research and technology. It contains more than 800 full color illustrations that are extremely useful in teaching the key concepts presented in the book.

### GENES VII CONTAINS NEW, GROUNDBREAKING INFORMATION ON:

- \* New technologies that count and compare expressed genes
- \* Accessory proteins (chaperones)
- \* The role of the proteasome
- \* Licensing
- \* Reverse translocation
- \* Connections between repair and recombination systems and human diseases
- \* Connections between the structure of chromosomal material and control of gene expression in eukaryotes
- \* The process of X chromosome inactivation
- \* Imprinting
- \* Control of gene expression by epigenetic changes
- \* The enzymatic activities that control chromatin structure and affect the regulatory process
- \* Archaeal enzymes
- \* The mechanism of RNA editing in lower eukaryotes
- \* The role of RAG genes
- \* Interactions within and between pathways
- \* The use of protein degradation to control passage through the cell cycle
- \* Programmed cell death

\* Telomerase and its role in carcinogenesis. And much more!

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