

Eucaryotic Gene Regulation (ICN-UCLA symposia on molecular and cellular biology)

Richard Axel



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Eucaryotic Gene Regulation (ICN-UCLA symposia on molecular and cellular biology) Richard Axel Eukaryotic Gene Regulation covers the aspects and mechanisms of gene regulation of selected eukaryotes, such as yeast, Drosophila, and insect. This book is organized into eight parts, encompassing 52 chapters. The majority of the chapters are presented in an experimental manner containing an abstract, methods, results and discussion, and conclusion.

This book first gives a short overview of the evolutionary role of interspersion in eukaryotic genes. It then presents considerable chapters on control of gene expression in yeast; gene mutation and isolation; structure and function; and analysis. Part III focuses on genetic and DNA sequence analysis in Drosophila. It includes discussions on allelic complementation and transvection, genetic organization, histone gene, and gene transcription. Part IV examines cell lineage; gene expression and sequences; and protein synthesis of insects, sea urchin, and mammalian cells. This is followed by discussions on structure and expression of specific eukaryotic genes from chicken, rat, rabbit, and human. Topics on the transfer of genetic information within and between cells and the structure and function of chromosome are significantly considered in Parts VI and VII. Genes evaluated in these sections include heavy chain immunoglobulin, light chain, beta-globin, and dihydrofolate reductase. Furthermore, this book describes the in vitro transcription and the factors involved; internal organization and mechanism of assembly of nucleosome; and chromatin structure. The concluding section focuses on aspects of viral genome expression including gene regulation, synthesis, processing, and alternative RNA splicing.

Research biologists, geneticists, scientists, teachers, and students will greatly benefit from this book.

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