

This book offers a comprehensive look into the science of gene expression and regulation. Focusing on topics such as actions of nuclear receptors, RNA processing, and DNA methylation and imprinting, *Gene Expression and Regulation* is edited by a leading biologist and includes contributions by experts in the field.

Presented in the following five sections, this book covers a full spectrum of topics: The History; The Machinery; The Regulators; The Genome; and Special Topics. The Machinery section covers the transcriptional apparatus and general transcription factors. The Regulators section examines selected gene-specific transcription factors important to regulating gene expression. The Genome section covers issues relevant to the behavior of the genome in relation to gene regulation. The Special Topics section discusses several selected topics ranging from bacterial and plant gene expression to DNA topology and interference RNA. The book's focus is on scientific concepts and issues, rather than specific organisms or experimental approaches.

Complete with more than 100 illustrations, *Gene Expression and Regulation* provides biologists with concise and comprehensive research outlined in chapters including:

- DNA Topology and Transcription
- Gene Expression in Plants
- Chromatin and Chromatin Remodeling
- Core Promoter Elements
- Bacterial Gene Regulation
- Transcription Factor Dynamics

Jun Ma, PhD, is an Associate Professor, Division of Developmental Biology, Cincinnati Children's Hospital Research Foundation, University of Cincinnati College of Medicine, Cincinnati, Ohio, USA.

Ma
Editor
**Gene
Expression
and
Regulation**

ISBN 7-04-017675-0



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定价: 128.00 元

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