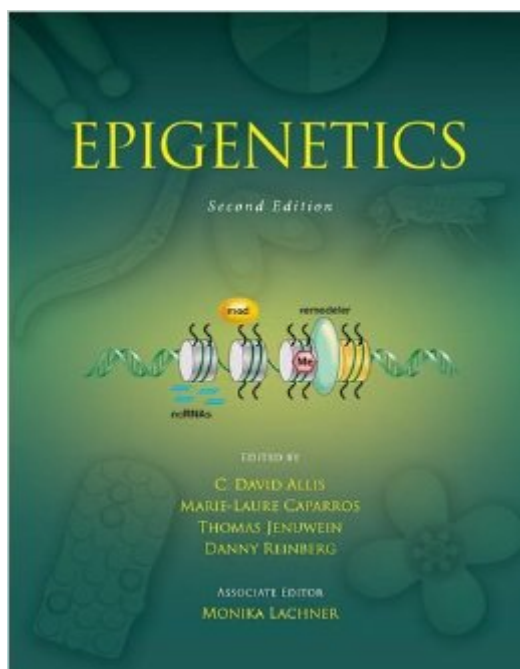


The book was found

Epigenetics, Second Edition



Synopsis

In many biological processes the regulation of gene expression involves epigenetic mechanisms. In this new edition of *Epigenetics*, 36 chapters written by experts in the field introduce and explain epigenetic effects from many perspectives. These include the varied molecular mechanisms underpinning epigenetic regulation, discussion of cellular processes that rely on this kind of regulation, and surveys of model organisms in which epigenetic effects have been most studied. The original chapters have all been rewritten and brand new chapters cover topics such as the structure, function, and dynamics of histone-modifying enzymes and histone-interacting proteins. Other chapters address chromatin remodeling, DNA methylation, siRNAs, and gene silencing; X-chromosome inactivation, dosage compensation, and imprinting; and epigenetics in microbes, plants, insects, and mammals. How epigenetic mechanisms act in cell division and cell type specification, and how errors in these pathways contribute to cancer and other human diseases are also considered, along with the importance of epigenetics for induced pluripotency and reprogramming. In addition, new chapters describe the involvement of epigenetic processes in epigenetic inheritance, neuronal development, metabolism and signaling, responses to the environment, and long-range chromatin interactions. A series of short essays highlight important recent discoveries. All the chapters provide conceptual illustrations that help readers understand epigenetic control. The book is thus a benchmark text for advanced undergraduate and graduate courses on gene regulation, as well as an essential resource for scientists interested in this rapidly moving field.

Book Information

Hardcover: 984 pages

Publisher: Cold Spring Harbor Laboratory Press; 2 edition (February 28, 2015)

Language: English

ISBN-10: 1936113597

ISBN-13: 978-1936113590

Product Dimensions: 11.1 x 1.8 x 8.9 inches

Shipping Weight: 6.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars Â Â See all reviews Â (4 customer reviews)

Best Sellers Rank: #203,151 in Books (See Top 100 in Books) #49 in Â Books > Textbooks >

Medicine & Health Sciences > Medicine > Basic Sciences > Genetics #137 in Â Books > Science & Math > Biological Sciences > Biology > Molecular Biology #214 in Â Books > Engineering &

Customer Reviews

Once in a while a scientific book comes along that sets the bar high for anyone to follow, an instant classic. "Epigenetics" is superbly organized into 36 chapters, most with a summary, overview and conclusions. This well organized 984 page second edition is what scientific books should be...easy to read for anyone. Each chapter is broken down into sections with the title of each section expressing an idea or concept. I have not read any books by CSH press before, but I surely will look for them in the future. Needless to say that this book is by far the most advanced resource on this subject today.

Epigenetics second edition it's a very well structured book. It's excellent for undergraduated students intrested in this subject.

Wonderful book.

Outstanding

[Download to continue reading...](#)

Epigenetics, Second Edition Graphic Design: The New Basics: Second Edition, Revised and Expanded Finance for Nonfinancial Managers, Second Edition: Briefcase Books Series Puppet 4 Essentials - Second Edition Selenium Testing Tools Cookbook - Second Edition Programming the Raspberry Pi, Second Edition: Getting Started with Python Machine Learning with R - Second Edition Beginning C for Arduino, Second Edition: Learn C Programming for the Arduino Servlet & JSP: A Tutorial, Second Edition Make a 2D RPG in a Weekend: Second Edition: With RPG Maker MV Learning ROS for Robotics Programming - Second Edition How to Diagnose and Fix Everything Electronic, Second Edition Cave Temples of Mogao at Dunhuang: Art and History on the Silk Road, Second Edition (Conservation & Cultural Heritage) The Happiest Baby on the Block; Fully Revised and Updated Second Edition: The New Way to Calm Crying and Help Your Newborn Baby Sleep Longer Understanding Applied Behavior Analysis, Second Edition: An Introduction to ABA for Parents, Teachers, and other Professionals American Society: How It Really Works (Second Edition) Patriots, Loyalists, and Revolution in New York City, 1775-1776 (Second Edition) (Reacting to the Past) Rousseau, Burke, and Revolution in France, 1791 (Second Edition) (Reacting to the Past) A Workbook for Arguments, Second Edition: A Complete Course in Critical Thinking The

Anatomy of Peace, Expanded Second Edition: Resolving the Heart of Conflict

[Dmca](#)