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C. elegans II
Monograph 33
Edited by Donald L. Riddle, University of Missouri, Columbia; Thomas Blumenthal, Indiana University; Barbara J. Meyer, University of California, Berkeley; and James R. Priess, Howard Hughes Medical Institute, Fred Hutchinson Cancer Research Center, Seattle

Studies of the cells and genes of the nematode C. elegans have become a cornerstone of current biology. A classic 1988 Cold Spring Harbor monograph described the basic genetics, anatomy and development of the organism. Now, in that authoritative tradition, comes C. elegans II — not a second edition but a book that breaks new ground and defines the current status of the field, providing a detailed molecular explanation of how development is regulated and the nervous system specifies varied aspects of behavior. This volume is a must for any investigator doing worm studies but it has been written and rigorously edited to illuminate for a wider community of investigators in cell and molecular biology who should know how new knowledge of C. elegans relates to their own specialty.

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Epigenetic Mechanisms of Gene Regulation

Monograph 32

Edited by Vincenzo E.A. Russo, Max-Planck-Institut für Molekulare Genetik; Robert A. Martienssen, Cold Spring Harbor Laboratory; Arthur D. Riggs, Beckman Research Institute of the City of Hope

Many inheritable changes in gene function are not explained by changes in the DNA sequence. Such epigenetic mechanisms are known to influence gene function in most complex organisms and include effects such as transposon function, chromosome imprinting, yeast mating type switching and telomeric silencing. In recent years, epigenetic effects have become a major focus of research activity. This monograph, edited by three well-known biologists from different specialties, is the first to review and synthesise what is known about these effects across all species, particularly from a molecular perspective, and will be of interest to everyone in the fields of molecular biology and genetics.

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