



# Long-Range Control of Gene Expression

edited by

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The field of genetics is rapidly evolving and new medical breakthroughs are occurring as a result of advances in knowledge gained from genetics research. This series continually publishes important reviews of the broadest interest to geneticists and their colleagues in affiliated disciplines. This volume covers the current progress in understanding the mechanisms for genomic control of gene expression, which has grown considerably in the last few years as insight into genome organization and chromatin regulation has advanced. Specific chapters include coverage of Chromatin Structure and the Regulation of Gene Expression; the Lessons of Pev in *Drosophila*; Polycomb Group Proteins and Long-Range Gene Regulation; Evolution of cis-Regulatory Sequences in *Drosophila*; Beta Globin Regulation and Long Range Interactions; Long Range Regulation of  $\gamma$ -globin Gene Expression; Global Control Regions and Regulatory Landscapes in Vertebrate Development and Evolution; Regulation of Imprinting in Clusters; Noncoding RNAs Versus Insulators; Genomic Imprinting and Imprinting Defects in Humans; Epigenetic Gene Regulation in Cancer; Genomic Identification of Regulatory Elements by Evolutionary Sequence Comparison and Functional Analysis; Regulatory Variation and Evolution and Implications for Disease; Organisation of Conserved Elements Near Key Developmental Regulators in Vertebrate Genomes; and Long-Range Gene Control and Genetic Disease.



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