

Volume 39



Advances in Genetics

Edited by

Jeffrey C. Hall

Department of Biology
Brandeis University
Waltham, Massachusetts

Jay C. Dunlap

Department of Biochemistry
Dartmouth Medical School
Hanover, New Hampshire

Theodore Friedmann

Department of Pediatrics
Center for Molecular Genetics
School of Medicine
University of California, San
Diego
La Jolla, California

Francesco Giannelli

Division of Medical and
Molecular Genetics
United Medical and Dental
Schools of Guy's and St.
Thomas' Hospitals
London Bridge
London, United Kingdom



Academic Press

San Diego London Boston New York Sydney Tokyo Toronto

Contents

Genetic Organization of Polytene Chromosomes 1

I. F. Zhimulev

- I. General Remarks 1
- II. General Aspects of the Chromomeric Organization of the Chromosomes 3
- III. Transcriptional Activity of Polytene Chromosomes 40
- IV. Organization of Interbands 84
- V. Molecular and Genetic Organization of the Chromomeres of Polytene Chromosomes 94
- VI. Puffs 160
- VII. Balbiani Rings 387
- VIII. Nucleoli 407
- IX. DNA Replication in Polytene Chromosomes 425
- References 443

Index 591