



CONTENTS

RECENT STUDIES OF DNA IN THE CRYSTAL, <i>H. R. Drew, M. J. McCall, and C. R. Calladine</i>	1
ENVIRONMENTALLY REGULATED GENE EXPRESSION FOR MEMBRANE PROTEINS IN <i>ESCHERICHIA COLI</i> , <i>Steven Forst and Masayori Inouye</i>	21
GROWTH CONE MOTILITY AND GUIDANCE, <i>D. Bray and P. J. Hollenbeck</i>	43
HAIR CELLS: TRANSDUCTION, TUNING, AND TRANSMISSION IN THE INNER EAR, <i>W. M. Roberts, J. Howard, and A. J. Hudspeth</i>	63
CELL-ASSOCIATED PLASMINOGEN ACTIVATION: REGULATION AND PHYSIOLOGICAL FUNCTIONS, <i>Olli Saksela and Daniel B. Rifkin</i>	93
ENHANCERS: MECHANISMS OF ACTION AND CELL SPECIFICITY, <i>Michael L. Atchison</i>	127
MITOCHONDRIAL MEMBRANE POTENTIAL IN LIVING CELLS, <i>Lan Bo Chen</i>	155
EXTRACELLULAR MATRIX ASSEMBLY, <i>John A. McDonald</i>	183
MOLECULAR ASPECTS OF FERTILIZATION IN FLOWERING PLANTS, <i>E. C. Cornish, M. A. Anderson, and A. E. Clarke</i>	209
STRUCTURE AND BIOLOGY OF PROTEOGLYCANS, <i>Erkki Ruoslahti</i>	229
REGULATION OF PROTEIN EXPORT FROM THE ENDOPLASMIC RETICULUM, <i>John K. Rose and Robert W. Doms</i>	258
BIOGENESIS OF MITOCHONDRIA, <i>Giuseppe Attardi and Gottfried Schatz</i>	290
FUNCTIONAL ORGANIZATION OF THE NUCLEAR ENVELOPE, <i>Larry Gerace and Brian Burke</i>	336
DEVELOPMENT OF THE PERIPHERAL NERVOUS SYSTEM FROM THE NEURAL CREST, <i>Nicole M. Le Douarin and Julian Smith</i>	375
REGULATION OF ADENYLYL CYCLASE-COUPLED β -ADRENERGIC RECEPTORS, <i>Jeffrey L. Benovic, Michel Bowier, Marc G. Caron, and Robert J. Lefkowitz</i>	405
CONJUGATION IN <i>SACCHAROMYCES CEREVISIAE</i> , <i>Fred Cross, Leland H. Hartwell, Catherine Jackson, and James B. Konopka</i>	430
FROM EGG TO EPITHELIUM, <i>Tom P. Flemming and Martin H. Johnson</i>	459

FOCAL ADHESIONS: TRANSMEMBRANE JUNCTIONS BETWEEN THE EXTRACELLULAR MATRIX AND THE CYTOSKELETON, <i>Keith Burridge, Karl Fath, Thomas Kelly, Glen Nuckolls, and Christopher Turner</i>	487
MICROTUBULE DYNAMICS AND KINETOCHORE FUNCTION IN MITOSIS, <i>T. J. Mitchison</i>	527
NEW COLLAGENS, NEW CONCEPTS, <i>Robert E. Burgeson</i>	551
ASSEMBLY OF PHOSPHOLIPIDS INTO CELLULAR MEMBRANES: BIOSYNTHESIS, TRANSMEMBRANE MOVEMENT, AND INTRACELLULAR TRANSLOCATION, <i>W. Robert Bishop and Robert M. Bell</i>	580
FATTY ACYLATION OF PROTEINS, <i>Alan M. Schultz, Louis E. Henderson, and Stephen Oroszlan</i>	612
CHEMOTAXIS IN EUKARYOTIC CELLS, <i>Peter Devreotes and Sally Zigmond</i>	649
STRUCTURE AND UTILIZATION OF TUBULIN ISOTYPES, <i>Kevin F. Sullivan</i>	687
INDEXES	
Subject Index	717
Cumulative Index of Contributing Authors, Volumes 1-4	729
Cumulative Index of Chapter Titles, Volumes 1-4	731