

ANNUAL REVIEW OF **CELL AND** DEVELOPMENTAL **BIOLOGY**

VOLUME 14, 1998

JAMES A. SPUDICH, Editor Stanford University School of Medicine

JOHN GERHART, Associate Editor University of California, Berkeley

STEVEN L. McKNIGHT, Associate Editor University of Texas

RANDY SCHEKMAN, Associate Editor University of California, Berkeley

CONTENTS

SYSTEMIN: A POLYPEPTIDE SIGNAL FOR PLANT DEFENSIVE GENES, Clarence A. Ryan and Gregory Pearce	1
UBIQUITIN AND THE CONTROL OF PROTEIN FATE IN THE SECRETORY AND ENDOCYTIC PATHWAYS, Juan S. Bonifacino and Allan M. Weissman	19
MECHANISMS OF WNT SIGNALING IN DEVELOPMENT, Andreas Wodarz and Roel Nusse	59
THE TIGHT JUNCTION: MORPHOLOGY TO MOLECULES, Bruce R. Stevenson and Brigitte H. Keon	89
FUNCTIONS OF LIPID RAFTS IN BIOLOGICAL MEMBRANES, D. A. Brown and E. London	111
INTRACELLULAR PATHOGENS AND THE ACTIN CYTOSKELETON, S. Dramsi and P. Cossart	137
TRANSCRIPTIONAL CONTROL OF MUSCLE DEVELOPMENT BY MYOCYTE ENHANCER FACTOR-2 (MEF2) PROTEINS, Brian L. Black and Eric N. Olson	167
BIOLUMINESCENCE, Thérèse Wilson and J. Woodland Hastings	197
PHOSPHOINOSITIDE LIPIDS AS SIGNALING MOLECULES: COMMON THEMES FOR SIGNAL TRANSDUCTION, CYTOSKELETON REGULATION, AND MEMBRANE TRAFFICKING, T. F. J. Martin	231
MITOCHONDRIAL DYNAMICS IN YEAST, Greg J. Hermann and Janet M. Shaw	265
SIGNALING TO THE ACTIN CYTOSKELETON, Anja Schmidt and Michael N. Hall	305
ISOFORM SORTING AND THE CREATION OF INTRACELLULAR COMPARTMENTS, Peter Gunning, Ron Weinberger, Peter Jeffrey, and Edna Hardeman	339
THE SPECIFICATION OF LEAF IDENTITY DURING SHOOT DEVELOPMENT, R. A. Kerstetter and R. S. Poethig	373
CONTROL OF TRANSLATION INITIATION IN ANIMALS, Nicola K. Gray and Marvin Wickens	399

	CONTENTS (continued)	vii
	INTRACELLULAR SIGNALING FROM THE ENDOPLASMIC RETICULUM TO THE NUCLEUS, Rowan Chapman, Carmela Sidrauski, and Peter Walter	459
	DEFINING ACTIN FILAMENT LENGTH IN STRIATED MUSCLE: RULERS AND CAPS OR DYNAMIC STABILITY? R. Littlefield and V. M. Fowler	487
IN	DEXES	
	Subject Index	527
	Cumulative Index of Contributing Authors, Volumes 10-14	550
	Cumulative Index of Chapter Titles, Volumes 10–14	552