

CONTENTS

PREFACE	ix	CHAPTER 9 ENDOSOMES	147
CONTRIBUTORS	xi	<i>Thierry Galvez and Marino Zerial</i>	
PART I MEMBRANE DOMAINS			
CHAPTER 1 CYTOSKELETON-INDUCED MESOSCALE DOMAINS	3	CHAPTER 10 LYSOSOMES AND PHAGOSOMES	165
<i>Ziya Kalay, Takahiro K. Fujiwara, and Akihiro Kusumi</i>		<i>Guillaume Goyette and Michel Desjardins</i>	
CHAPTER 2 CLATHRIN-COATED PITS	23	CHAPTER 11 ENDOPLASMIC RETICULUM JUNCTIONS	177
<i>James R. Thieman and Linton M. Traub</i>		<i>Jesse T. Chao and Christopher J.R. Loewen</i>	
CHAPTER 3 CAVEOLAE	39	PART III CYTOSKELETAL DOMAINS	
<i>Dan Tse and Radu V. Stan</i>		CHAPTER 12 THE ACTIN CYTOSKELETON	197
CHAPTER 4 LIPID RAFTS	61	<i>Jonathan A. Kelber and Richard L. Klemke</i>	
<i>Leonard J. Foster</i>		CHAPTER 13 MICROVILLI	213
CHAPTER 5 MODELING MEMBRANE DOMAINS	71	<i>Florent Ubelmann, Sylvie Robine, and Daniel Louvard</i>	
<i>Daniel Coombs, Raibatak Das, and Jennifer S. Morrison</i>		CHAPTER 14 MICROTUBULES	229
		<i>Geoffrey O. Wasteneys and Bettina Lechner</i>	
		CHAPTER 15 CILIA	245
		<i>Laura K. Hilton and Lynne M. Quarmby</i>	
PART II ORGANELLAR DOMAINS		CHAPTER 16 INTERMEDIATE FILAMENTS	267
CHAPTER 6 MITOCHONDRIA	87	<i>Normand Marceau, Anne Loranger, Stéphane Gilbert, and François Bordeleau</i>	
<i>Michael Zick and Andreas S. Reichert</i>		PART IV ADHESIVE AND COMMUNICATING DOMAINS	
CHAPTER 7 THE ENDOPLASMIC RETICULUM	113	CHAPTER 17 FOCAL ADHESIONS	285
<i>Jody Groenendyk and Marek Michalak</i>		<i>Caitlin Tolbert and Keith Burridge</i>	
CHAPTER 8 THE GOLGI APPARATUS	133		
<i>James W. Dennis and Ivan R. Nabi</i>			

CHAPTER 18 THE ADHERENS JUNCTION 303*Christopher P. Toret and W. James Nelson***CHAPTER 19 SPECIALIZED INTERCELLULAR JUNCTIONS IN EPITHELIAL CELLS: THE TIGHT JUNCTION AND DESMOSOME 321***Keli Kolegraff, Porfirio Nava, and Asma Nusrat***CHAPTER 20 GAP JUNCTIONS 339***Jared M. Churko and Dale W. Laird***PART V POLARIZED CELLULAR DOMAINS****CHAPTER 21 EPITHELIAL DOMAINS 351***Nancy Philp, Liora Shoshani, Marcelino Cereijido, and Enrique Rodriguez-Boulan***CHAPTER 22 NEURONAL DOMAINS 371***Jennifer S. Goldman and Timothy E. Kennedy***PART VI DOMAINS REGULATING GENE EXPRESSION****CHAPTER 23 NUCLEAR DOMAINS 393***Dale Corkery, Kendra L. Cann, and Graham Dellaire***CHAPTER 24 THE NUCLEAR PORE 415***Richard W. Wozniak, Christopher Ptak, and John D. Aitchison***CHAPTER 25 CYTOPLASMIC RNA DOMAINS 429***Henry Parker and Tom C. Hobman***INDEX 445**