Contents

	Preface	Vİ
PARTI PAS	г	1
CHAPTER 1	Understanding Disease: Ancient Theories	3
CHAPTER 2	The Advent of Cellular Pathology	7
CHAPTER 3	The Colored Bodies of Cell Nuclei: Chromosomes and Heredity	15
CHAPTER 4	Boveri and the Somatic Mutation Theory of Cancer	23
CHAPTER 5	Cytogenetics from 1914 to 1960: Slow Progress Followed by Serendipitous Methodological Breakthroughs Leading to Important Discoveries	29
CHAPTER 6	The First Cancer-Specific Chromosome Aberrations: Ph ¹ and Others	41
PART II PRESENT		
CHAPTER 7	The Banding Revolution: Cancer Cytogenetics in the 1970s	59
CHAPTER 8	Chasing Correlations: Chromosomes and Oncogenes in Leukemias and Lymphomas	75

	Cantanta
\/I	Contents
VΙ	

CHAPTER 9	Solid Tumor Cytogenetics	87
CHAPTER 10	Gains, Losses, and Rearrangements of Genomic Material: Pathogenetic Considerations	105
CHAPTER 11	Morphology Meets Chemistry: Integration of Molecular Genetics into the Cytogenetic Search for Cancer-Specific Chromosome Aberrations	117
CHAPTER 12	Unraveling the Clonal Evolution of Neoplastic Cell Populations	125
CHAPTER 13	Clinical Usefulness	137
PART III FUT	TURE	149
CHAPTER 14	Toward a Pathogenetic Classification of Cancer	151
CHAPTER 15	Where There is Structure, There is Function	161
CHAPTER 16		
CHAITEN 10	Which Resolution Level is Optimally Suited to Answer Which Questions? Seeing Never Goes Out of Fashion	169
	Answer Which Questions? Seeing Never Goes	169 179
	Answer Which Questions? Seeing Never Goes Out of Fashion Are New Technical Breakthroughs on the	