

Contents

1	Mouse Models of Myeloproliferative Disease Associated with Mutant JAK2 Tyrosine Kinase: Insights into Pathophysiology and Therapy	1
	Richard A. Van Etten	
2	Genetic Modeling of Human Blood Cancers in Mice	21
	Yiguo Hu and Shaoguang Li	
3	Murine Models of Hematopoietic Disease: Pathologic Analysis and Characterization	45
	Benjamin H. Lee and Jeffery L. Kutok	
4	Mechanisms of DNA Double-Strand Break Repair in Hematopoietic Homeostasis and Oncogenesis	81
	Sarah A. Maas, Lura Brianna Caddle, and Kevin D. Mills	
5	Modeling Human Leukemia Using Immune-Compromised Mice	121
	Fumihiko Ishikawa, Yariko Saito, and Leonard D. Shultz	
6	Dietary Restriction: A Model System Probing the Cell Fate Decision Between Cancer and Senescence	133
	Robin P. Ertl and David E. Harrison	
7	Modeling Human Philadelphia Chromosome-Positive Leukemia in Mice	157
	Shaoguang Li	
8	Mouse Models of Human Mature B-Cell and Plasma Cell Neoplasms	179
	Siegfried Janz, Herbert C. Morse III, and Michael A. Teitell	

9 Genetic and Virological Predisposition to Pre-B Lymphomagenesis in SL/Kh. 227
Hiroshi Hiai

10 Animal Cancer Models in Anticancer Drug Discovery and Development 245
Francis Lee and Roberto Weinmann

11 DGL Global Strategies in DNA Microarray Gene Expression Analysis and Data Mining for Human Blood Cancers 259
Dongguang Li

Index 283