Contents

List of Contributors, vii
Acknowledgement, xi
Preface, xiii
Abbreviations, xv

Part 1 Hematopoiesis, 1
1 Normal and Malignant Hematopoiesis, 3
   Bijal D. Shah and Kenneth S. Zuckerman
2 The Leukemia Genome, 31
   Jonathan C. Strefford and Nicholas C.P. Cross

Part 2 Myeloid Malignancies, 47
3 Myeloproliferative Neoplasms, 49
   Ruben A. Mesa and Ayalew Tefferi
4 Molecular Pathogenesis of BCR-ABL in Chronic Myeloid Leukemia, 62
   Eric Padron, Lori A. Hazlehurst and Javier Pinilla-Ibarz
5 Standard Management of Patients with Chronic Myeloid Leukemia, 71
   Elias Jabbour, Jorge Cortes and Hagop Kantarjian
6 The Molecular Biology of Acute Myeloid Leukemia, 86
   Jerald Radich
7 Acute Myeloid Leukemia, 103
   Martin S. Tallman, Ritesh Parajuli and Jessica K. Altman
8 Acute Promyelocytic Leukemia, 127
   Sylvain Thépot, Lionel Ades and Pierre Fenaux
9 A Pluralistic Approach to the Study of Myelodysplastic Syndromes: Evolving
   Pathology of the Seed via the Soil, 143
   Naomi Galili, Raymond Cruz, Jamie Stratton, Jessica Clima,
   Ghulam Sajjad Khan and Azra Raza
10 Myelodysplastic Syndrome: A Review of Current Care , 153
    Kenneth H. Shain, Alan F. List and Rami S. Komrokji
11 Supportive Care in Myelodysplastic Syndrome, 172
    Hussain I. Saba, Arshia A. Dangol and Donald C. Doll
Part 3 Lymphoid Malignancies, 191
12 Molecular Biology of Chronic Lymphoproliferative Disorders, 193
   Monique A. Hartley-Brown and Lubomir Sokol
13 Chronic Lymphocytic Leukemia, 211
   Terry Hamblin and Angela Hamblin
14 Acute Lymphoblastic Leukemia, 228
   Susan O’Brien, Stefan Faderl, Deborah Thomas and Hagop M. Kantarjian
15 Large Granular Lymphocyte Leukemia, 244
   Xin Liu and Thomas P. Loughran, Jr.
16 Hairy Cell Leukemia, 253
   Kevin T. Kim, Darren S. Sigal and Alan Saven
17 Molecular Basis of B-cell Lymphomas, 266
   Elizabeth M. Sagatys, Eduardo M. Sotomayor and Jianguo Tao
18 Non-Hodgkin Lymphomas, 274
   Nathan Fowler and Peter McLaughlin
19 Hodgkin Lymphoma, 296
   Michael Crump

Part 4 Plasma Cell Disorders, 315
20 Multiple Myeloma: Molecular Biology, Diagnosis and Treatment, 317
   Shaji Kumar and S. Vincent Rajkumar
21 Waldenström’s Macroglobulinemia, 342
   Robert A. Kyle and Suzanne Hayman
22 Primary Systemic Amyloidosis (AL), 355
   Efstatios Kastritis and Meletios Athanasios Dimopoulos

Part 5 Bone Marrow Transplantation and Quality of Life, 367
23 Advances in Allogeneic Hematopoietic Cell Transplantation: Progress
   in Transplantation Technology and Disease-Specific Outcomes, 369
   Joseph Pidala and Claudio Anasetti
24 Quality of Life after the Diagnosis of Hematological Malignancies, 384
   Mohamed Sorrar

Index, 399
The colour plate section can be found facing p. 130