

PATHOLOGY OF BONE MARROW AND BLOOD CELLS

SECOND EDITION

DIANE C. FARHI



Includes
Online Access
to Text
and Images



Wolters Kluwer | Lippincott Williams & Wilkins
Health

CONTENTS

Preface viii

Contributors ix

Acknowledgments x

PART ONE: General Features

- 1 Bone Marrow Structure, Morphology, and Hematopoiesis 1
Thuy-Lieu Thi Vo and Diane C. Farhi
- 2 Bone Marrow Procedure, Examination, and Reporting 15
Carolyn Chiling Chai
- 3 Extramedullary Hematopoiesis 26

PART TWO: Constitutional Disorders

- 4 Constitutional Hematopoietic Disorders 31

PART THREE: Reactive Changes

- 5 Erythrocytes 63
Carolyn Chiling Chai
- 6 Neutrophils 86
- 7 Eosinophils and Basophils 97
- 8 Monocytes, Histiocytes, and Storage Disorders 102
- 9 Platelets and Megakaryocytes 115
Thuy-Lieu Thi Vo and Diane C. Farhi
- 10 Mast Cells 121
- 11 Lymphocytes and Plasma Cells 124
- 12 Stromal Tissue and Extracellular Space 134
- 13 Infectious Disease and Related Topics 148
- 14 Systemic Disease 165
- 15 Effects of Therapy 171
- 16 Other Nonneoplastic Conditions 179

PART FOUR: Clonal Disease

17	Risk Factors for Hematopoietic Neoplasia	187
18	Acute Myeloid Leukemia	192
19	Precursor Lymphoid Neoplasms	213
20	Myelodysplastic Syndromes	224
21	Myeloproliferative and Related Neoplasms	237
22	Histiocytic and Dendritic Cell Neoplasms	253
23	B-Cell Neoplasms	258
24	Hodgkin Lymphoma	275
25	Plasma Cell and Related Neoplasms	278
26	T-Cell Neoplasms	289
27	Natural Killer-Cell Neoplasms	300
28	Nonhematolymphoid Neoplasms	304

Appendix A: WHO 2008 Classification of Tumors of Hematopoietic and Lymphoid Tissues 311

Appendix B: References 315

Index 415