

Contents

Foreword	V
Preface	VII
List of Contributors	XIII
Opening Remarks	XV

Part 1 Immunotherapy for Malignant Diseases

Breaking Immunological Tolerance to Tumor Cells as a Novel Immunotherapy for Cancer S. Sakaguchi, T. Takahashi, and J. Shimizu	3
SART1 Gene Encoding Squamous Cell Carcinoma Antigen Recognized by Cytotoxic T Lymphocytes K. Itoh, S. Shichijo, Y. Inoue, A. Hayashi, U. Toh, and H. Yamana ...	15
Adoptive Immunotherapy of Human Diseases with Antigen-Specific T-Cell Clones S.R. Riddell, E.H. Warren, D. Lewinsohn, S. Brodie, R. de Fries, L. Corey, and P.D. Greenberg	29
Adoptive Transfer of Polyclonal, EBV-Specific Cytotoxic T-Cell Lines for the Prevention and Treatment of EBV-Associated Malignancies C.M. Rooney, M.H. Huls, R.A. Rochester, M.K. Brenner, and H.E. Heslop	45

Processing of Antigens by Dendritic Cells: Nature's Adjuvant K. Inaba	61
Immunotherapy of Melanoma Using Dendritic Cells F.O. Nestle	69
Immunotherapy of Melanoma Using T-Cell-Defined Antigens Y. Kawakami	77

Part 2 Hematopoietic Stem Cells Biology and Clinical Application

Isolation and Characterization of CD34-Low/Negative Mouse Hematopoietic Stem Cells H. Nakauchi, M. Osawa, K. Sudo, and H. Ema	95
Ex Vivo Expansion of Human Hematopoietic Stem Cells T. Nakahata, M.-J. Xu, T. Ueda, S. Matsuoka, M. Ito, and K. Tsuji	105
Notch in Hematopoiesis: Cell Fate Decisions and Self-Renewal of Progenitors L.A. Milner and A. Bigas	107
Molecular Genetics of Acute Promyelocytic Leukemia: A Rationale for "Transcription Therapy" for Cancer P.P. Pandolfi	123
A Novel Acute Promyelocytic Leukemia Model: From Cell to Murine System M. Kizaki	133
Phase 1 Trial of Retroviral-Mediated Transfer of the Human MDR-1 in Patients Undergoing High-Dose Chemotherapy and Autologous Stem Cell Transplantation C. Hesdorffer, J. Ayello, M. Ward, A. Kaubisch, A. Bank, and K. Antman	143
Basic Studies Toward Hematopoietic Stem Cell Gene Therapy Y. Hanazono, C.E. Dunbar, R.E. Donahue, I. Kato, Y. Ueda, M. Hasegawa, M. Urabe, A. Kume, K. Terao, and K. Ozawa	159
Ex Vivo Expansion of Hematopoietic Cells I. McNiece, R. Jones, P. Cagnoni, S. Bearman, Y. Nieto, and E.J. Shpall	171

Harnessing Graft-Versus-Leukemia Without Myeloablative Therapy S.A. Giralt	185
Ex Vivo Expansion of Human Cord Blood Stem Cells and Genetic Manipulation K. Ando, H. Kawada, T. Shimizu, T. Tsuji, Y. Nakamura, M. Kimura, H. Miyatake, Y. Shimakura, S. Kato, and T. Hotta	195
 Part 3 International Collaboration in Hematopoietic Stem Cell Transplantation	
Unrelated Donor Stem Cell Transplantation: A Registry Perspective C.W.S. Howe, C. Kollman, and J. Hegland	207
European Bone Marrow Donor Registries: Collaboration and Individualism T. Egeland	209
Asian Bone Marrow Donor Registries: Their Roles in International Cooperation S. Okamoto	223
Cord Blood Stem Cell Transplantation: Banking and Clinical Results V. Rocha and E. Gluckman	225
Key Word Index	239