

Contents

Biology 1

Growth Regulation in Normal and Malignant Melanocytes (R. Halaban) . . . 3

Gangliosides in Melanoma (K. Furukawa and K. O. Lloyd) 15

Analysis of Human Melanosome-Specific Antigen in Malignant Melanoma and Its Precursors (K. Jimbow, M. Jimbow, and V. Paetkau) 31

Role of Melanosomal Antigen in Melanoma Regression and Depigmentation (K. Hayashibe and Y. Mishima) 51

Immunology and Molecular Biology 63

Cross-Species Melanoma Antigen (M. Taniguchi, I. Kuwabara, Y. Harada, M. Sakazume, and K. Ono) 65

Melanoma-Associated Antigens in *Xiphophorus* Fish (G. Clauss, J. Lohmeyer, C. V. Hamby, S. Ferrone, and F. Anders) 74

Characterization of p97, a Human Melanoma-Associated Antigen, and Development of a Recombinant Vaccine for Melanoma (C. D. Estin, G. D. Plowman, T. M. Rose, and J. P. Brown) 87

Molecular Cloning of Genes That Specify Melanoma-Associated Antigens (L. H. Graf Jr.) 95

Melanoma Antigens and Their Association with Malignant Transformation and Tumor Progression (J. P. Johnson, B. G. Stade, U. Rothbacher, J. M. Lehmann, and G. Riethmüller) 106

Antibody-Mediated Modulation of Melanoma-Associated Antigens: Access of Monoclonal Antibodies into Melanoma Cells and Melanoma Tissue (W. Tilgen and S. Matzku) 119

The Central Role of Cell Surface-Deposited C3b in Complement Susceptibility of Human Melanoma Cells (R. Bredehorst and C.-W. Vogel) . . 133

Second Generation Monoclonal Antibodies to a Human Melanoma-Associated Proteoglycan (C. S. Woodhouse, J. P. Bordonaro, P. L. Beaumier, and A. C. Morgan Jr.) 151

Immunobiology of Ocular Malignant Melanoma (L. Goldschmidt and D. H. Char)	164
Immunobiology of the Regional Lymph Nodes in Cutaneous Malignant Melanoma (A. J. Cochran, D.-R. Wen, and D. S. B. Hoon)	180
HLA Class II Antigens on Melanoma Cells (G. Parmiani, A. Anichini, C. Castelli, and G. Fossati)	197
HLA Class II Molecules: Form and Function in Melanocytic Tumor Progression (D. Guerry IV)	212
Clinical and Pathological Aspects	227
Clinical and Immunohistological Features of Uveal Melanomas (L. A. Donoso, Y. Song, and J. A. Shields)	229
The Familial Atypical Multiple Mole Melanoma Syndrome and Visceral Cancer (H. T. Lynch and R. M. Fusaro)	239
Immunopathology of Melanoma with Monoclonal Antibodies (D. J. Ruiter, G. N. P. van Muijen, H. van Nouhuys, and S. Ferrone)	253
Changes in the Tumor-Associated Inflammatory Infiltrates in the Course of Local and Systemic Progression of Cutaneous Melanoma (E.-B. Bröcker, E. Macher, and C. Sorg)	278
Clinical Implications of Human Melanoma-Associated Antigens (S. P. L. Leong and F. L. Meyskens)	294
Prognostic Factors for Cutaneous Melanoma (V. C. Ho and A. J. Sober)	308
Immunoscintigraphy	323
Clinical Pharmacology Studies with Murine Antimelanoma Monoclonal Antibodies (M. G. Rosenblum, L. M. Lamki, and J. L. Murray)	325
Radioimaging of Melanoma with ⁹⁹ Tc ^m -labeled Monoclonal Antibodies (R. W. Schroff, S. L. Johnson, J. F. Eary, D. F. Salk, A. C. Morgan Jr., A. R. Fritzberg, W. B. Nelp, and P. G. Abrams)	344
Radioimaging in Patients with Melanoma (A. Taylor)	355
Radioimmunoscintigraphy of Ocular Melanomas (J. Bomanji, J. L. Hungerford, and K. E. Britton)	373
Monoclonal Antibodies as Immunomodulating Agents in the Treatment of Melanoma (P. Hersey)	387

Therapy	397
Immunotherapy of Melanoma with Monoclonal Antibody-Drug Conjugates (R. A. Reisfeld)	399
Immunotoxins to a Human Melanoma-Associated Proteoglycan: Progress Towards the Second Generation (A. C. Morgan Jr. and G. Sivam) . . .	413
Preclinical Development of Monoclonal Antibody Conjugates for Site-directed Therapy of Human Malignant Melanoma (T. F. Bumol, A. L. Baker, P. Marder, B. C. Laguzza, S. L. Briggs, and L. D. Apeltgren)	430
Antimelanoma Antibodies for Therapy (K. E. Hellström and I. Hellström) . . .	442
Therapy of Neuroectodermal Tumors with Monoclonal Antibodies (W. G. Dippold and K. H. Meyer zum Büschenfelde)	467
Active Specific and Passive Immunotherapy of Melanoma: Clinical and Experimental Investigations with Murine Monoclonal Antibodies (T. Kageshita, M. Temponi, U. Kekish, Z. J. Chen, A. Mittelman, M. Matsui, and S. Ferrone)	475
Immunoregulation and Active Specific Immunization in Cancer Treatment (M. J. Mastrangelo and D. Berd)	497
Vaccine Immunotherapy of Melanoma (J.-C. Bystryń)	513
Surgery and Melanoma (E. Silva and T. K. Das Gupta)	531
Surgery of Primary Melanoma (U. Veronesi)	540
Subject Index	547