

Table of Contents

Series Preface	ix
Hans E. Kaiser	
Preface	xi
Gary G. Meadows	
List of Contributors	xv
Chapter 1	1
Microenvironmental Effects on Tumour Progression and Metastasis	
Kårstein Måseide, Tuula Kalliomäki and Richard P. Hill	
Chapter 2	23
Role of Microenvironment on Gene Expression, Angiogenesis and Microvascular Function in Tumors	
Dai Fukumura	
Chapter 3	37
Imaging of Angiogenesis In Vivo with Fluorescent Proteins	
Robert M. Hoffman	
Chapter 4	47
The Epigenetic Influence of the Tumor Microenvironment on Melanoma Plasticity	
E. A. Seftor, P. S. Meltzer, D. A. Kirschmann, R. E. B. Seftor and M. J. C. Hendrix	
Chapter 5	65
Dynamics of Cell Adhesion Interactions during Melanoma Development	
G. Li and M. Herlyn	
Chapter 6	81
Matrix Metalloproteinases: Mediators of Tumour-Host Cell Interactions	
Robert J. Diaz, Alexandra Eichten, Karin E. de Visser and Lisa M. Coussens	

Chapter 7 Role of Brain Microenvironment in Brain Metastases J. Grunfeld and V. K. Puduvalli	127
Chapter 8 Influence of the Bone Microenvironment on Breast Cancer Metastasis to Bone B. L. Eckhardt, N. Pouliot and R. L. Anderson	149
Chapter 9 Interaction of Tumour with Host Stroma in Hepatocellular Carcinoma D. S. R. Lockwood and D. C. Gotley	165
Chapter 10 Dynamic Nature of Tumour-Host Interactions Within the Tumor Microenvironment D. Nagorsen and F. M. Marincola	177
Chapter 11 Breast Cancer Progression: A “Vicious Cycle” of Pro-Malignancy Activities is Mediated by Inflammatory Cells, Chemokines and Cytokines A. Ben-Baruch	189
Chapter 12 Tumor and Host Endothelial Cell Selective Interactions and Modulation by Microenvironmental Chemokines: Tumor-Endothelial Cell Cross Talk Specificity N. Lamerant-Fayel, C. Crola da Silva and C. Kieda	219
Chapter 13 The Role of Chemokine Receptors, in Particular CXCR4, in Lymphoma and Carcinoma Metastasis I. S. Zeelenberg and E. Roos	233
Chapter 14 Energy Homeostasis and the Tumor/Host Interaction: The role of the Brain Michael F. Wiater	245
Chapter 15 Anti-Angiogenic and Pro-Apoptotic Effects of Dietary Restriction in Experimental Brain Cancer: Role of Glucose and Ketone Bodies T. N. Seyfried and P. Mukherjee	259
Chapter 16 Dietary Restriction of Specific Amino Acids Modulates Tumor and Host Interactions G. G. Meadows and Y.-M. Fu	271
Chapter 17 Role of Tumour Microenvironment in Chemoresistance Yong Wei and Jessie L.-S. Au	285

Chapter 18	323
Integrin-Mediated Resistance to Chemotherapy-Induced Apoptosis in Cancer Cells R. C. Rintoul and T. Sethi	
Chapter 19	335
Bone Metastasis Microenvironment Participates in the Development of Androgen Ablation Refractoriness and Chemotherapy Resistance of Prostate Cancer Cells Residing in the Skeleton: Clinical Implications M. Koutsilieris, R. Tenta, D. Tiblalexi, N. Pitulis, E. Sotiriou, P. Lembessis, J. Bogdanos, C. Milathianakis and A. Sourla	
Chapter 20	345
Current and Future Therapeutic Targets of the Tumour-Host Microenvironment Jareer Kassis, Emilyn Alejandro, Victoria Virador and Elise C. Kohn	
Chapter 21	369
Bone Stromal Cells as Therapeutic Targets in Osseous Metastasis R.A. Sikes, C.R. Cooper, G.L. Beck, F. Pruitt, M.L. Brown and G. Balian	
Chapter 22	387
Organotropic of Lung Cancer Metastasis and its Molecular Targeted Therapy Seiji Yano, Soji Kakiuchi, Helong Zhang and Saburo Sone	
Chapter 23	407
Maspin: A Novel Serine Protease Inhibitor Shijie Sheng	
Chapter 24	419
Metastasis Suppressor Genes: A Brief Review of an Expanding Field Monica M. Richert and Danny R. Welch	
Chapter 25	437
Tumor-Host Interactions at the Metastatic Site: MKK4, Signal Transduction and the Stress Response Jonathan C. Berger, Victoria L. Robinson, Jonathan A. Hickson, Donald Vander Giemd and Carrie W. Rinker-Schaeffer	
Index	449