

Contents

1 The Cell Biology of Exosomes: Historical and Perspectives	1
Alessandra Lo Cicero and Graça Raposo	
2 The Role of Exosomal Shuttle RNA (esRNA) in Cell-to-Cell Communication	33
Cecilia Lässer, Maria Eldh and Jan Lötvall	
3 Exosomal Lipids in Cell–Cell Communication	47
Michel Record	
4 The Functional Importance of Tetraspanins in Exosomes	69
Sanyukta Rana and Margot Zöller	
5 The Effects of Exosomes and Related Vesicles on Cancer Development, Progression, and Dissemination	107
Huang-Ge Zhang and William E. Grizzle	
6 Circulating Cell-derived Vesicles Mediate Tumor Progression	131
Douglas D. Taylor and Cicek Gercel-Taylor	
7 Immune Modulation of T Cells and Natural Killer Cells by Tumor-Derived Exosomes	149
Theresa L. Whiteside	
8 The Role of Tumor Exosomes in Tumorigenicity	169
Johan K. O. Skog	
9 Microenvironmental Regulation of Metastasis by Exosomes	181
Haiying Zhang, Guillermo Garcia-Santos, Héctor Peinado and David C. Lyden	
10 Microvesicles and Their Emerging Role in Cellular Therapies for Organ and Tissue Regeneration	203
Mariusz Z. Ratajczak, Kasia Mierzejewska, Magda Kucia, Nick Greco and Janina Ratajczak	
Index	217

Emerging Concepts of Tumor Exosome-Mediated
Cell-Cell Communication

Zhang, H.-G. (Ed.)

2013, VIII, 220 p., Hardcover

ISBN: 978-1-4614-3696-6