

# Contents

<b>1</b>	<b>Cancer Stem Cells: A Revisitation of the “Anaplasia” Concept.....</b>	<b>1</b>
	Roberto Scatena	
<b>2</b>	<b>Stem Cells and Cancer Stem Cells: New Insights .....</b>	<b>17</b>
	Toru Kondo	
<b>3</b>	<b>Molecular Biology of Cancer Stem Cells .....</b>	<b>33</b>
	Oswaldo Keith Okamoto	
<b>4</b>	<b>Biomarkers of Cancer Stem Cells .....</b>	<b>45</b>
	Jun Dou and Ning Gu	
<b>5</b>	<b>Cancer Stem Cells and the Microenvironment .....</b>	<b>69</b>
	Alfonso Colombatti, Carla Danussi, Eliana Pivetta, and Paola Spessotto	
<b>6</b>	<b>Leukemia Stem Cells .....</b>	<b>85</b>
	Steven W. Lane and David A. Williams	
<b>7</b>	<b>Cancer Stem Cells and the Central Nervous System.....</b>	<b>105</b>
	Serdar Korur, Maria Maddalena Lino, and Adrian Merlo	
<b>8</b>	<b>Cancer Stem Cells and Glioblastoma Multiforme: Pathophysiological and Clinical Aspects.....</b>	<b>123</b>
	Akio Soeda, Mark E. Shaffrey, and Deric M. Park	
<b>9</b>	<b>Breast Cancer Stem Cells .....</b>	<b>141</b>
	Nuria Rodríguez Salas, Enrique González González, and Carlos Gamallo Amat	
<b>10</b>	<b>Colon Cancer Stem Cells.....</b>	<b>155</b>
	Ugo Testa	

<b>11 Liver Tumor-Initiating Cells/Cancer Stem Cells: Past Studies, Current Status, and Future Perspectives .....</b>	<b>181</b>
Kwan Ho Tang, Stephanie Ma, and Xin-Yuan Guan	
<b>12 Pancreatic Cancer Stem Cells .....</b>	<b>197</b>
Erica N. Proctor and Diane M. Simeone	
<b>13 Cancer Stem Cells and Renal Carcinoma.....</b>	<b>211</b>
Benedetta Bussolati and Giovanni Camussi	
<b>14 Cancer Stem Cells: Proteomic Approaches for New Potential Diagnostic and Prognostic Biomarkers.....</b>	<b>221</b>
Patrizia Bottoni, Bruno Giardina, and Roberto Scatena	
<b>15 Cancer Stem Cells: An Innovative Therapeutic Approach.....</b>	<b>239</b>
Roberto Scatena, Patrizia Bottoni, Alessandro Pontoglio, Salvatore Scarà, and Bruno Giardina	
<b>16 Cancer Stem Cell and ATP-Binding Cassette: Which Role in Chemoresistance? .....</b>	<b>267</b>
Andrea Silvestrini, Elisabetta Meucci, Giuseppe Ettore Martorana, Bruno Giardina, and Alvaro Mordente	
<b>17 Stem Cells and Cancer Stem Cells: Biological and Clinical Interrelationships .....</b>	<b>289</b>
Cinzia Bagalà and Carlo Barone	
<b>18 Immunomodulatory Functions of Cancer Stem Cells .....</b>	<b>301</b>
Tobias Schatton, Jennifer Y. Lin, and Markus H. Frank	
<b>Index.....</b>	<b>333</b>

Advances in Cancer Stem Cell Biology

Scatena, R.; Mordente, A.; Giardina, B. (Eds.)

2012, XII, 343 p., Hardcover

ISBN: 978-1-4614-0808-6