

Contents

1	Malignant Mesothelioma: An Asbestos Legacy	1
	Joseph R. Testa	
2	Asbestos and Fibrous Erionite	11
	Ann G. Wylie	
3	Epidemiology of Mesothelioma	43
	Suresh H. Moolgavkar, Ellen T. Chang, Gabor Mezei, and Fionna S. Mowat	
4	Malignant Pleural Mesothelioma: History, Controversy, and Future of a Man-Made Epidemic	73
	Oluf Dimitri R�� and Giulia Maria Stella	
5	Communities at High Risk in the Third Wave of Mesothelioma	103
	Edward A. Emmett and Brigid Cakouros	
6	Mesothelioma Pathology	131
	Elizabeth N. Pavlisko, John M. Carney, Thomas A. Sporn, and Victor L. Roggli	
7	Asbestos-Induced Inflammation in Malignant Mesothelioma and Other Lung Diseases	161
	Joyce K. Thompson and Arti Shukla	
8	Germline and Somatic Mutations in Human Mesothelioma and Lessons from Asbestos-Exposed Genetically Engineered Mouse Models	175
	Mitchell Cheung, Craig W. Menges, and Joseph R. Testa	
9	Gene Signature of Malignant Pleural Mesothelioma	197
	Assunta De Rienzo, William G. Richards, and Raphael Bueno	
10	Cell Signaling and Epigenetic Mechanisms in Mesothelioma	211
	Brooke T. Mossman	

11	3D Models of Mesothelioma in the Study of Mechanisms of Cell Survival	237
	V. Courtney Broaddus, Carlo Follo, and Dario Barbone	
12	Biomarkers of Response to Asbestos Exposure	259
	Clementina Mesaros, Liwei Weng, and Ian A. Blair	
13	Surgery Approaches in Mesothelioma	279
	Andrea Wolf and Raja Flores	
14	Radiotherapy and Photodynamic Therapy for Malignant Pleural Mesothelioma	295
	Charles B. Simone II, Theresa M. Busch, and Keith A. Cengel	
15	Standard Chemotherapy Options and Clinical Trials of Novel Agents for Mesothelioma	313
	Marjorie G. Zauderer	
16	Immunotherapeutic Approaches to Mesothelioma	347
	Anish Thomas, Madhuri Badrinath, and Raffit Hassan	
17	Challenges Facing Mesothelioma Patients and Their Families: Medical/Legal Intersections	359
	Kirk Hartley and Mary Hesdorffer	
18	The Patient's Experience of Malignant Mesothelioma	381
	William M. Buchholz	

Asbestos and Mesothelioma

Testa, J.R. (Ed.)

2017, VIII, 407 p. 65 illus., 43 illus. in color., Hardcover

ISBN: 978-3-319-53558-6