

Contents

Part I BPD: Basic Research

1 Hyperoxia in the Pathogenesis of Bronchopulmonary Dysplasia	3
Anantha K. Harijith and Vineet Bhandari	
2 Invasive Mechanical Ventilation in the Pathogenesis of Bronchopulmonary Dysplasia	27
Lauren M. Ramos, Tanbir Najrana, and Juan Sanchez-Esteban	
3 Pre and Postnatal Inflammation in the Pathogenesis of Bronchopulmonary Dysplasia	55
Kirsten Glaser and Christian P. Speer	
4 Mycoplasma in Bronchopulmonary Dysplasia	79
Rose M. Viscardi	
5 Chronic Obstructive Pulmonary Disease Following Bronchopulmonary Dysplasia	93
Alice Hadchouel and Christophe Delacourt	

Part II BPD: Translational Aspects

6 Genetics of Bronchopulmonary Dysplasia	109
Pascal M. Lavoie	
7 Biomarkers of Bronchopulmonary Dysplasia	129
Wesley Jackson and Matthew M. Laughon	
8 Pathology of Bronchopulmonary Dysplasia	149
Monique E. De Paepe	

Part III BPD: Clinical Aspects

9	Bronchopulmonary Dysplasia: Definitions and Epidemiology.....	167
	Eduardo Bancalari and Nelson Claure	
10	Oxygen Modulation and Bronchopulmonary Dysplasia: Delivery Room and Beyond.....	183
	Isabel Torres-Cuevas, María Cernada, Antonio Nuñez, and Maximo Vento	
11	Noninvasive Ventilation for the Prevention of Bronchopulmonary Dysplasia	199
	Louise S. Owen, Brett J. Manley, Vineet Bhandari, and Peter G. Davis	
12	Nutrition in Bronchopulmonary Dysplasia: In the NICU and Beyond	223
	Richard A. Ehrenkranz and Fernando R. Moya	
13	Radiology of Bronchopulmonary Dysplasia: From Preterm Birth to Adulthood	243
	Outi Tammela and Päivi Korhonen	
14	Pulmonary Hypertension in Bronchopulmonary Dysplasia	259
	Charitharth Vivek Lal and Namasivayam Ambalavanan	
15	Pulmonary Function in Survivors of Bronchopulmonary Dysplasia	281
	Jennifer S. Landry and Simon P. Banbury	

Part IV BPD: Novel Therapeutic Options

16	Stem Cells for the Prevention of Bronchopulmonary Dysplasia	299
	Won Soon Park	
17	Less Invasive Surfactant Administration (LISA) for the Prevention of Bronchopulmonary Dysplasia	315
	Wolfgang Göpel, Angela Kribs, and Egbert Herting	
18	Anti-inflammatory Agents for the Prevention of Bronchopulmonary Dysplasia	325
	Sneha Taylor and Virender K. Rehan	
	Index.....	345



<http://www.springer.com/978-3-319-28484-2>

Bronchopulmonary Dysplasia

Bhandari, V. (Ed.)

2016, XIII, 354 p. 35 illus., 22 illus. in color., Hardcover

ISBN: 978-3-319-28484-2

A product of Humana Press