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Nota di contenuto	Part IIntroduction -- 1. Clinical development of genomic medicine in pulmonary diseases: Are genetic factors enough to determine the phenotype and inheritance of pulmonary diseases? -- 2. Statistical approaches and strategies for complex diseases - Overview - : What is the rationale for the genome-wide approach to understand complex diseases - its application and limitations -- Part IIGenetic Disorders in Pulmonary Disease -- 3 (4)Bronchial asthma: Is asthma inherited? -- 4 (5)COPD - Hereditary (A1-AT) and Non-hereditary: What are the roles of genetic factors in the pathogenesis of COPD? -- 5 (3)Smoking behavior and cessation (nicotine addiction): Are genetic factors involved in smoking behavior? -- 6. Cystic fibrosis, Primary ciliary dyskinesia and Diffuse panbronchiolitis - Hereditary and Non-Hereditary: What are the roles of genetic factors in the pathogenesis of these diseases? -- 7. Pulmonary Fibrosis -Hereditary and Nonhereditary: What are the role of genetic factors in the pathogenesis of pulmonary fibrosis? -- 8. Other diffuse lung diseases - Diffuse cystic lung diseases (LAM, TSC, BHD), Sarcoidosis, Pulmonary alveolar proteinosis, and Pulmonary alveolar microlithiasis: What are the roles of genetic factors in the pathogenesis of these diseases? -- 9. Pulmonary vascular diseases - Pulmonary hypertension and HHT: What are the roles of genetic factors in the

pathogenesis of pulmonary vascular diseases? -- 10. Mycobacterial infection – TB and NTM: What are the roles of genetic factors in the pathogenesis of mycobacterial infection? -- 11. Pulmonary malignancies (1): Lung cancer: What are the roles of genetic factors in lung cancer pathogenesis? -- 12. Pulmonary malignancies (2): Mesothelioma: What are the Roles of Genetic Factors in the Pathogenesis of Mesothelioma? -- 13. Genetic Factors in Sleep Disorders: What are the roles of genetic factors in the pathogenesis of sleep disorders? -- 14. Pharmacokinetics, pharmacodynamics, and toxicities: What should we know about genetic factors that affect the pharmacotherapy of pulmonary diseases? -- Part IIIOncogenic Driver Mutation (Somatic Mutations) in Lung Cancer -- 15. EGFR: How important is EGFR mutation status in the management of lung cancer? -- 16. ALK, and others: How important are ALK, and other mutations in the management of lung cancer? -- Part IVCurrent Topics -- 17. Application of high-throughput technologies in personal genomics: How is the progress in personal genome service? -- 18. Nucleic acid amplification-based diagnostics for pulmonary diseases : What is the current state and perspectives of nucleic acid amplification technologies used in diagnostics associated with pulmonary diseases?.

Sommario/riassunto

This book describes the underlying genetic basis of common pulmonary diseases and discusses their pathogenesis and pathophysiology. These insights provide the basis for understanding different subtypes and phonotypes, and will promote better treatment strategies and individualized medicine. The book provides new and valuable information for the development of the areas of study, as well as practical guidelines for clinicians engaged in treating pulmonary diseases. This volume of the Respiratory Disease Series – Diagnostic Tools and Disease Managements will broaden the understanding of beginning and experienced researchers and clinicians who treat pulmonary diseases. Moreover, residents and clinicians engaged in medical oncology will find it a valuable guide to support them in their day-to-day work. .