Drugs for the Treatment of Respiratory Diseases

EDITED BY

Domenico Spina
The Sackler Institute of Pulmonary Pharmacology,
King's College London, UK

Clive P. Page
The Sackler Institute of Pulmonary Pharmacology,
King's College London, UK

William J. Metzger
National Jewish Medical and Research Center, Denver, CO, USA

AND

Brian J. O'Connor
The Sackler Institute of Pulmonary Pharmacology,
King's College London, UK
## Contents

List of contributors vii  
Preface xi  

### Part I Asthma and COPD

1 Pathology of asthma and COPD: inflammation and structure  
   Peter K. Jeffery  
2 Glucocorticosteroids  
   Peter J. Barnes  
3 \(\beta_2\)-adrenoceptor agonists  
   Domenico Spina, Clive P. Page and Brian J. O'Connor  
4 Anticholinergic bronchodilators  
   Jeremy M. Segal and Nicholas J. Gross  
5 Antiallergic drugs  
   Masakazu Ichinose  
6 Drugs affecting the synthesis and action of leukotrienes  
   Paul M. O'Byrne  
7 Theophylline and selective phosphodiesterase inhibitors in the treatment of respiratory disease  
   Neil A.Jones, Domenico Spina and Clive P. Page  
8 Potential therapeutic effects of potassium channel openers in respiratory diseases  
   Ahmed Z. El-Hashim  
9 Tachykinin and kinin antagonists  
   Pierangelo Geppetti
Contents

Part II Diffuse parenchymal lung disease

12 Current approaches to the treatment of parenchymal lung diseases 247
Joseph P. Lynch III and Michael Keane

13 Drug treatments of the future in fibrotic lung disease 336
Athol U. Wells

Part III Infection

14 Current and future management of pneumonia 363
Mario Cazzola and Maria G. Matera

15 Current treatment of chronic bronchial suppuration 403
Robert Wilson

16 Current and future treatment of cystic fibrosis 428
R.G. Gary Ruiz, Hilary H. Wyatt and John F. Price

Part IV Pulmonary vascular diseases

17 Pathophysiology of pulmonary vascular disease 453
Sanjay Mehta and David G. McCormack

18 Current treatment of pulmonary vascular diseases 475
Tarek Saba and Andrew Peacock

19 Future treatment of pulmonary vascular diseases 504
Norbert F. Voelkel, Mark W. Geraci and Steven Abman

Part V Lung cancer

20 Molecular pathology of lung cancer 519
Ignacio I. Wistuba and Adi F. Gazdar

21 Small cell lung cancer 535
Desmond N. Carney

Part VI Cough

22 Mechanisms of cough 553
John J. Adcock

23 Current treatment of cough 565
Peter V. Dicpinigaitis

Index 579

Colour plate section between pp. 12 and 13.