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Nota di contenuto	Overcoming Steroid Insensitivity in Respiratory Disease; Contents; List of Contributors; Preface; 1 Molecular Mechanisms of Glucocorticoid Receptor Action; 1.1 Introduction; 1.2 Glucocorticoid Receptor; 1.3 Gene Induction by GR; 1.4 GR Transactivation and Histone Acetylation; 1.5 Post-translational Modifications of GR; 1.6 Repression of NF-B-induced Inflammatory GeneExpression by GR-NF-B; 1.7 GR-NF-B Cross-talk; 1.8 Role of HDAC2 in Glucocorticoid Function; 1.9 Overexpression of HDAC2 Restores Glucocorticoid Sensitivity in Alveolar Macrophages 1.10 Acetylation of hsp90 and Regulation of GR Function 1.11 Other Mechanisms of GR Action; 1.12 Conclusions; 2 Side Effects of Topical and Oral Glucocorticoids; 2.1 Introduction; 2.2 Glucocorticoid-induced Side Effects; 2.3 Summary; 3 Glucocorticoid Receptor Subtypes and Steroid Sensitivity; 3.1 Introduction; 3.2 Overview of Classic GR Function; 3.3 GR Subtypes Arising from Alternative Splicing; 3.4 GR Subtypes arising from Alternative Translation Initiation; 3.5

Conclusions; 4 Dissociated Glucocorticoids; 4.1 Introduction
4.2 Asthma and Chronic Obstructive Pulmonary Disease are Chronic Inflammatory Diseases of the Airways 4.3 Regulation of Inflammatory Gene Expression; 4.4 Effects on Inflammation; 4.5 Mechanisms of Glucocorticoid Action; 4.6 Dissociated Glucocorticoids; 4.7 GR Cross-talk with Other Nuclear Receptors and Coactivators; 4.8 Overcoming Steroid Insensitivity; 4.9 Glucocorticoid-sparing Approaches to Anti-inflammatory Therapy; 4.10 Conclusion; 5 Generalized Glucocorticoid Insensitivity: Clinical Phenotype and Molecular Mechanisms; 5.1 Introduction; 5.2 Molecular Mechanisms of Glucocorticoid Resistance 5.3 Conclusions 6 Corticosteroid Responsiveness in Asthma: Clinical Aspects; 6.1 Introduction; 6.2 Effects of Corticosteroids in Asthma; 6.3 Definition of Corticosteroid Insensitivity; 6.4 Oral CS Responsiveness in Asthma; 6.5 ICS Responsiveness in Asthma; 6.6 CS Responsiveness in Severe Asthma; 6.7 Surrogates for CS Responsiveness in Asthma; 6.8 Pharmacokinetics of Systemic CS in Severe Asthma; 6.9 CS Responsiveness in Cigarette Smokers and Chronic Obstructive Pulmonary Disease; 6.10 Other Diseases of CS Insensitivity; 6.11 Conclusions
7 Glucocorticoid-insensitive Asthma: Molecular Mechanisms 7.1 Introduction; 7.2 GR Abnormalities; 7.3 GR Nuclear Translocation; 7.4 Cross-talk with Transcription Factors; 7.5 NF- κ B, GR, Histones and Chromatin Remodelling; 7.6 Epigenetics and Asthma; 7.7 Conclusions; 8 Cigarette Smoke, Oxidative Stress and Corticosteroid Responsiveness; 8.1 Oxidative Stress; 8.2 Cigarette Smoke/Oxidative Stress-Induced NF- κ B-mediated Pro-inflammatory Gene Expression; 8.3 Histone Acetylation and Deacetylation; 8.4 Corticosteroids; 8.5 Histone Deacetylases; 8.6 Reversing Glucocorticoids / Corticosteroid Resistance 8.7 Conclusion

Sommario/riassunto

Written by well-known experts in field, this is the first book dedicated to dealing with the single most challenging management issue in long-term steroid therapy. Overcoming Steroid Insensitivity in Respiratory Disease reviews important new advances in therapeutics and provides the clinician with the most up to date information on one of the most significant therapeutic challenges to effective management of these diseases. This unique book is an invaluable resource for all postgraduate students and specialist physicians in pulmonology allergy and asthma. It is also of interest
