

CONTENTS

Preface: Role of T-Cell Subtypes in Allergic Inflammations
Blaser, K.

Th17 and Treg Cells Innovate the Th1/Th2 Concept and Allergy Research
Schmidt-Weber, C.B.

Regulatory T Cells and Antigen-Specific Tolerance
Kretschmer, K.; Apostolou, I.; Verginis, P.; von Boehmer, H.

Molecular Mechanisms of Regulatory T-Cell Development
Chatila, T.A.

Interaction of Regulatory T Cells with Antigen-Presenting Cells in Health and Disease
Mahnke, K.; Ring, S.; Bedke, T.; Karakhanova, S.; Enk, A.H.

Mucosal Regulatory T Cells in Airway Hyperresponsiveness
Strickland, D.H.; Wikstrom, M.E.; Turner, D.J.; Holt, P.G.

Natural Killer Cells in Allergic Inflammation
Erten, G.; Aktas, E.; Deniz, G.

Mast Cells and Mast Cell-Derived Factors in the Regulation of Allergic Sensitization
Taubke, C.; Stassen, M.

Regulatory Effects of Histamine and Histamine Receptor Expression in Human Allergic Immune Responses
Akdis, C.A.; Jutel, M.; Akdis, M.

T-Cell Regulation in Asthmatic Diseases
Finotto, S.

Immune Regulatory Mechanisms in Allergic Contact Dermatitis and Contact Sensitization
Cavani, A.

Regulatory Role of T Lymphocytes in Atopic Dermatitis
Werfel, T.; Wittmann, M.

T-Cell Regulation in Helminth Parasite Infections: Implications for Inflammatory Diseases
Maizels, R.M.; Yazdanbakhsh, M.

Immune Regulation and Tolerance to Fungi in the Lungs and Skin
Romani, L.; Puccetti, P.

Control of Delayed-Type Hypersensitivity by Ocular-Induced CD8+ Regulatory T Cells
Cone, R.E.; Chattopadhyay, S.; O'Rourke, J.

Novel Therapeutic Strategies by Regulatory T Cells in Allergy
Elkord, E.

T-Cell Regulatory Mechanisms in Specific Immunotherapy
Jutel, M.; Akdis, C.A.

Control and Regulation of Peripheral Tolerance in Allergic Inflammatory Disease: Therapeutic Consequences
Li, L.; Boussiotis, V.A.

Lung Dendritic Cells: Targets for Therapy in Allergic Disease
Lambrecht, B.N.; Hammad, H.

Antigen-Based Therapies Targeting the Expansion of Regulatory T Cells in Autoimmune and Allergic Disease
Leech, M.D.; Anderton, S.M.

Stem Cell Transplantation in Genetically Linked Regulatory T-Cell Disorders
Shenoy, S.

Author Index / Subject Index

Important new findings for the development of novel allergy treatments

T Cell Regulation in Allergy, Asthma and Atopic Skin Diseases

Editor
Kurt Blaser



This book presents the state of the art in cellular and molecular mechanisms regulating the immune response in allergic inflammation. Special attention is given to the central role of regulatory T cells (Treg) in immune regulation and induction of peripheral tolerance, as well as to the relevance of Th17 cells in chronic inflammation. The importance of Treg and Th17 cells is demonstrated in bronchial asthma, atopic eczema, contact dermatitis and delayed-type hypersensitivity. Furthermore, T-cell-mediated regulatory mechanisms in helminthic infections and fungal allergy are discussed. Several chapters are devoted to the therapeutic consequences that these recently discovered T-cell functions may have. Their role as a potential target for specific immunotherapy is evaluated and novel approaches for peripheral tolerance induction and treatment of allergic and asthmatic diseases and inflammation are suggested. Stem cell transplantation as a future therapeutic intervention in regulatory T-cell disorders is also considered.

Well edited and up to date, this volume is recommended reading for allergologists, immunologists, dermatologists and any scientist interested in the immunological events regulating allergic inflammation in general and allergic manifestations in different organs.

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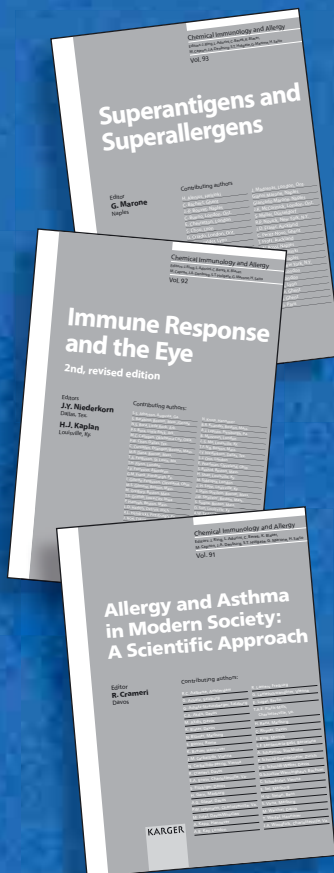
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