New Trends in Allergy and Atopic Eczema
Contents

XI Preface
Ring, J.; Darsow, U.; Behrendt, H. (Munich)

Allergy and Environment: Determinants of Allergy Development

1 Allergy in Evolution
Platts-Mills, T.A.E. (Charlottesville, Va.)

Abstract
Evolution of Protein Structures
‘Evolution’ of Allergic Diseases: 1870–2000
Conclusions
Acknowledgement
References

7 Climate Change, Environment and Allergy
Behrendt, H.; Ring, J. (Munich)

Abstract
Environment and Allergy
Environmental Pollution
Western Lifestyle
Climate Change
Climate Change Effects upon Pollen
More Pollen
New Pollen
Altered Pollen
Other Allergens
Conclusion
Acknowledgement
References

15 The Hygiene Hypothesis Does Not Apply to Atopic Eczema in Childhood
Cramer, C.; Link, E. (Düsseldorf); Koletzko, S. (Munich); Lehmann, I. (Leipzig); Heinrich, J.; Wichmann, H.-E. (Neuherberg); Bauer, C.-P. (Munich); v. Berg, A.; Berdel, D. (Wesel); Herbarth, O. (Leipzig); Schaaf, B. (Bad Honnef); Borte, M. (Leipzig); Behrendt, H. (Munich); Krämer, U. (Düsseldorf)

Abstract
Eczema in East and West Germany
Eczema and Day Care Center Attendance
Eczema, Older Siblings and FLG Mutations
Conclusion
22 Acknowledgement
22 References

24 Molecular Genetics of Atopic Eczema
Ring, J. (Munich); Möhrensclager, M. (Davos); Weidinger, S. (Kiel)

24 Abstract
25 Classical Genetics
25 Linkage Studies
25 Genes of Skin Barrier Function
26 Genes Involved in IgE-Mediated Hypersensitivity
27 Genes with Unknown Function
27 Conclusions
27 Acknowledgement
28 References

Pathogenesis of the Deviated Immune Response

30 Mechanisms of Immune Tolerance to Allergens
Fujita, H. (Davos/Yokohama); Meyer, N.; Akdis, M.; Akdis, C.A. (Davos)

30 Abstract
31 Pathogenesis of Allergic Diseases
32 B Regulatory Cells
33 Mechanisms of Allergen-Specific Immunotherapy
33 Role of T Cells
34 Role of Allergen-Specific IgG4
35 Regulation of Basophils, Eosinophils and Mast Cells
35 Clinical Use
36 Conclusions
36 Acknowledgements
37 References

39 Th17 and Th22 in Skin Allergy
Cavani, A. (Rome); Pennino, D.; Eyerich, K. (Munich)

39 Abstract
40 Th17 in Atopic Dermatitis
41 Th22 in Atopic Dermatitis
42 Conclusions
43 References

45 IL-25 Induces Both Inflammation and Skin Barrier Dysfunction in Atopic Dermatitis
Deleuran, M.; Hvid, M. (Aarhus); Kemp, K.; Christensen, G.B. (Ballerup); Deleuran, B.; Vestergaard, C. (Aarhus)

45 Abstract
47 Conclusion and Perspectives
47 References

50 Angiogenesis, Lymphangiogenesis and Atopic Dermatitis
Genovese, A.; Detoraki, A.; Granata, F.; Galdiero, M.R.; Spadaro, G.; Marone, G. (Naples)

50 Abstract
51 Proangiogenic Factors
53 Angiogenic Factors in Atopic Dermatitis
54 Cellular Sources of Angiogenic and Lymphangiogenic Factors in Atopic Dermatitis
56 Angiogenesis and Lymphangiogenesis in Experimental Models of Atopic Dermatitis
56  Conclusions
57  References

61  **What Can Dogs Bring to Atopic Dermatitis Research?**
    Olivry, T. (Raleigh, N.C.)

61  Abstract
62  Canine Atopic Dermatitis Is a Common Spontaneous Animal Heritable Skin Disease
63  Dogs and Humans with Atopic Dermatitis Exhibit the Same Hypersensitivity Patterns
63  Canine and Human Atopic Dermatitis Are Phenotypically Similar
64  Canine and Human Atopic Dermatitis Have Similar Treatment Outcome
66  Canine and Human Atopic Dermatitis Have Similar Pathogenesis
67  Skin Lesions of Canine (and Human) Atopic Dermatitis Can Be Modeled Experimentally
68  Intradermal Challenges with Allergens or Anti-IgE Antibodies
68  Epicutaneous Allergen Challenges of Sensitized Dogs
68  Environmental and Systemic Allergen Challenges of Sensitized Dogs
69  Conclusions
69  References

73  **Can Microbial Superantigens Influence Atopic Dermatitis Flares?**
    Alomar, A. (Barcelona)

73  Abstract
74  Effects of *Malassezia* on Immune Response
75  Conclusion
75  References
76  Further Reading

77  **Inflammation-Induced Alterations in the Skin Barrier Function: Implications in Atopic Dermatitis**
    Vestergaard, C.; Hvid, M.; Johansen, C. (Aarhus); Kemp, K. (Ballerup); Deleuran, B.; Deleuran, M. (Aarhus)

77  Abstract
79  References

---

**Clinical Aspects**

81  **Itch and Eczema**
    Darsow, U.; Pfab, F.; Valet, M.; Tölle, T.R.; Ring, J. (Munich)

81  Abstract
81  Pathophysiology
82  Itch Questionnaires in Atopic Eczema
83  Processing of the Itch Sensation in the Human Brain
83   Volunteer Studies
84   Patient Studies
85  Therapy of Itch in Eczema
87  References

89  **Eczema Herpeticum**
    Wollenberg, A. (Munich)

89  Abstract
89  History and Epidemiology
90  Diagnostic Procedures
90  Pathogenesis of Eczema Herpeticum
91  Therapy of Eczema Herpeticum
91  Antiviral Chemotherapy of Eczema Herpeticum

---

Contents VII
<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>92</td>
<td>Topical Treatment of Eczema Herpeticum</td>
</tr>
<tr>
<td>93</td>
<td>Ophthalmic Therapy</td>
</tr>
<tr>
<td>93</td>
<td>IFN Therapy for Eczema Herpeticum</td>
</tr>
<tr>
<td>93</td>
<td>Outlook</td>
</tr>
<tr>
<td>94</td>
<td>References</td>
</tr>
<tr>
<td>96</td>
<td>Bone Mineral Density in Patients with Atopic Dermatitis</td>
</tr>
<tr>
<td>Haeck, I.; van Velsen, S.; de Bruin-Weller, M.; Bruijnzeel-Koomen, C. (Utrecht)</td>
<td></td>
</tr>
<tr>
<td>96</td>
<td>Abstract</td>
</tr>
<tr>
<td>98</td>
<td>Conclusions</td>
</tr>
<tr>
<td>99</td>
<td>References</td>
</tr>
<tr>
<td>100</td>
<td>Immunosuppressive Effect of Prolactin-Induced Protein</td>
</tr>
<tr>
<td>Sugiura, S. (Otsu); Fujimiya, M. (Sapporo); Ebise, H. (Osaka); Miyahira, Y. (Otsu); Kato, I. (Kanazawa); Sugiura, Y. (Tokyo); Kimura, T. (Osaka); Uehara, M. (Yasu); Sato, H. (Otsu); Sugiura, H. (Otsu/Kusatsu)</td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>Abstract</td>
</tr>
<tr>
<td>101</td>
<td>Materials and Methods</td>
</tr>
<tr>
<td>101</td>
<td>Animals</td>
</tr>
<tr>
<td>101</td>
<td>Induction of Oxazolone-Induced Contact Sensitivity</td>
</tr>
<tr>
<td>101</td>
<td>Immunohistological Study of the Ear with Anti-Prolactin-Induced Protein Antibody in Oxazolone Challenged Mice</td>
</tr>
<tr>
<td>101</td>
<td>Construction of Mouse Prolactin-Induced Protein Peptide</td>
</tr>
<tr>
<td>101</td>
<td>Animals and Induction of Oxazolone-Induced Contact Sensitivity</td>
</tr>
<tr>
<td>102</td>
<td>Induction of an Immunomodulatory Effect by Prolactin-Induced Protein Peptide</td>
</tr>
<tr>
<td>102</td>
<td>Measurement of Ear Thickness and Tissue Sample Collections</td>
</tr>
<tr>
<td>102</td>
<td>Histology and Immunohistochemistry of Ears on Mice Treated with Oxazolone and Prolactin-Induced Protein Peptide</td>
</tr>
<tr>
<td>103</td>
<td>Statistical Analyses</td>
</tr>
<tr>
<td>103</td>
<td>Results</td>
</tr>
<tr>
<td>103</td>
<td>Expression of Prolactin-Induced Protein in Skin Lesions in a Mouse Chronic Allergic Contact Dermatitis Model</td>
</tr>
<tr>
<td>103</td>
<td>Immunosuppressive Effect of Prolactin-Induced Protein Peptide in a Mouse Chronic Allergic Contact Dermatitis Model</td>
</tr>
<tr>
<td>104</td>
<td>Local Inhibitory Effect of Prolactin-Induced Protein Peptide Observed by Histopathology</td>
</tr>
<tr>
<td>105</td>
<td>Discussion</td>
</tr>
<tr>
<td>107</td>
<td>References</td>
</tr>
<tr>
<td>108</td>
<td>Is Food Allergy Testing Reliable in Pediatric Atopic Dermatitis? A Population-Based Study</td>
</tr>
<tr>
<td>108</td>
<td>Abstract</td>
</tr>
<tr>
<td>109</td>
<td>Methods</td>
</tr>
<tr>
<td>109</td>
<td>Results</td>
</tr>
<tr>
<td>110</td>
<td>Discussion</td>
</tr>
<tr>
<td>111</td>
<td>Acknowledgement</td>
</tr>
<tr>
<td>111</td>
<td>References</td>
</tr>
<tr>
<td>113</td>
<td>New Strategies for Dealing with Staphylococcus aureus Colonization and the Emerging Methicillin-Resistant Staphylococcus aureus Epidemic in Atopic Dermatitis</td>
</tr>
<tr>
<td>Boguniewicz, M. (Denver, Colo.)</td>
<td></td>
</tr>
<tr>
<td>113</td>
<td>Abstract</td>
</tr>
<tr>
<td>113</td>
<td>Community-Acquired Methicillin-Resistant Staphylococcus aureus</td>
</tr>
</tbody>
</table>
Preface

Allergy and allergic diseases have increased in prevalence dramatically over the last decades. Relevant determinants influencing the development of allergic inflammation come from the environment and are either enhancing – promoting allergy – or protective in nature. The lack of protective factors such as early stimulation of the immune system through infection or parasite infestation by improved hygiene seems to go along with allergy promoting effects of environmental pollutants such as traffic exhaust – fine or ultrafine particles – or tobacco smoke in the indoor air. Climate change with higher CO₂ concentrations in the atmosphere and increases in the Earth’s surface temperature may contribute to an increase in allergic diseases by prolonging the flowering period of pollinating plants and immigration of allergenic neophytes.

Great progress has been made in elucidating the pathomechanisms of allergic reactions both at the level of molecular genetics and in the understanding of the complex orchestra of cells and mediators in the allergic inflammation.

It has become clear that not only the deviated immune response is a prerequisite for allergy with dominant Th2 reactions and consequent IgE production, but also the epithelial barrier is of crucial importance both in the mucosal surface of the airway and in the skin.

In spite of the great progress in the experimental allergology and immunology, there is still a tremendous gap between the theoretical knowledge and the practical performance in daily life treating allergic patients in the office or in the hospital. This becomes especially obvious when we think of subjective symptoms such as itch, which is the major symptom of allergic skin disease.

Only on the basis of a better understanding of the pathomechanisms and the molecular pathways involved can new therapeutic and preventive strategies for future management of allergic patients seem possible.

This volume brings together a carefully selected list of articles based upon lectures given at the International Symposium ‘New Trends in Allergy VII’ together with the ‘6th Georg Rajka Symposium on Atopic Dermatitis’ organized in Munich in July 2010. At this symposium, two remarkable traditions were joined: the symposia ‘New Trends in Allergy’, which began in 1980 in Munich and have since been held in 5-year intervals in Munich, Hamburg and Davos. The International Symposium on
Atopic Dermatitis was started by Professor Georg Rajka in Oslo and held five times in Norway. Since 1996, taking the name of the founder, they have been continued all over the world, taking place in Aarhus, Davos, Portland, Rome, Arcachon, Kyoto and Munich, and have brought together all the experts both from clinics and research interested in the field of atopic eczema. The next Georg Rajka Symposium will be held in 2012 in Moshi, Tanzania, in order to stress the fact that allergy and eczema is not a disease of the so-called Western world, but can be found also in rural regions in central sub-Saharan Africa.

We would like to thank Alberto Giannetti (Modena), Alain Taïeb (Bordeaux), Kristian Thstrup-Petersen (Aarhus) and Hirohisa Takigawa (Matsumoto) for help in the development of the Rajka symposia. Mr. Preussler and Mrs. Burk deserve thanks for the excellent organization of the symposium in Munich. A final highlight was the performance of an ‘allergy musical’ by the coworkers of the Department of Dermatology and Allergy as well as the ZAUM [Zentrum Allergie und Umwelt (Center for Allergy and Environment)] at the Biederstein Campus of the Technische Universität München in the Löwenbräukeller: ‘King Ludwig II – His Life, His Death, His Allergy!’ In this play, undiscussed aspects of the mysterious end of Bavaria’s dream king were put to stage in a humorous fashion, at the same time giving a new example of very well accepted allergy education.

Thanks also go to Mr. Nold and Mr. Brian from Karger Publishers for the excellent help in the production of this book.

We would also like to thank the Christine Kühne Center of Allergy Research and Education (CK-CARE) as well as the Munich Allergy Research Society (Verein zur Förderung der Forschung und Fortbildung auf dem Gebiet dermatologischer und allergologischer Erkrankungen e.V.) for their generous support.

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