



**6<sup>th</sup> SYMPOSIUM ON ENVIRONMENTAL ALLERGY  
AND ALLERGOTOXICOLOGY:  
CLIMATE CHANGE AND ALLERGY**

**January 29<sup>th</sup> - 31<sup>st</sup>, 2009**

**Program**

München - Neuherberg  
Helmholtz Zentrum München  
German Research Center for Environmental Health  
Ingolstädter Landstrasse 1  
Auditorium

and

München  
TUM-Campus Biederstein (Saturday, January 31)  
Biedersteiner Strasse 29  
Großer Hörsaal

## THURSDAY, JANUARY 29, 2009

- 13.15 WELCOME  
10 years ZAUM - Center for Allergy and Environment
- 14.00 **KEYNOTE LECTURE**

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*Chairpersons: J. Ring (Munich), C. Bachert (Ghent)*
- Allergy and evolution - Evolution of allergy**  
*T.A. Platts-Mills, Charlottesville VA*
- GENE - ENVIRONMENT INTERACTIONS IN ALLERGY**

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*Chairpersons: H.-E. Wichmann (Neuherberg), M. Kabesch (Hannover)*
- 14.30 Introductory lecture: Genetic advances in asthma and eczema  
*W.O.C. Cookson, London*
- 15.00 Gene-environment interactions  
*H. Renz, Marburg*
- 15.30 The filaggrin story: insights into epidermal barrier function and disease  
*S. Weidinger, Munich*
- 15.50 BREAK  
Posters on display
- ENVIRONMENTAL PARTICLES INDOORS AND OUTDOORS**

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*Chairpersons: M. Göttlicher (Neuherberg), D. Nowak (Munich)*
- 16.40 Introductory lecture: Indoor and outdoor particles as promoters and enhancers of allergy and asthma  
*D. Diaz-Sanchez, Chapel Hill NC*
- 17.10 Traffic and allergy; Results from the GINI/LISA cohort studies  
*J. Heinrich, Neuherberg*
- 17.30 UFP pave the way for allergy aggravation in a mouse model  
*F. Alessandrini, Munich*
- 17.50 Ultrafine carbon particles as triggers of airway inflammation in asthmatic patients  
*N. Krug, Hannover*
- 18.10 Particles, diabetes, and atopy in the elderly  
*U. Krämer, Düsseldorf*
- 18.30 POSTER DISCUSSION  
Wine and Cheese  
Evening free

## FRIDAY, JANUARY 30, 2009

### CLIMATE CHANGE: THE FACTS

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*Chairpersons: J. Simon (Leipzig), T. Zuberbier (Berlin)*

- 08.30            Introductory lecture: Global warming - Myth or fact?  
*W. Schmutz, Davos*
- 09.00            Climate change and air quality  
*H.P. Schmid, Garmisch-Partenkirchen*
- 09.20            Plant growth and phenology  
*A. Menzel, Weihenstephan*
- 09.40            Health effects and climate change  
*H. Koren, Chapel Hill NC*
- 10.00            BREAK  
Posters on display

### CLIMATE CHANGE, POLLEN FLIGHT AND ALLERGY

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*Chairpersons: J. Emberlin (Worcester), W.M. Becker (Borstel)*

- 10.30            Pollen flight over Europe - an indicator for climate change?  
*S. Jäger, Vienna*
- 10.50            Long distance transport of pollen  
*M. Sofiev, Helsinki*
- 11.10            Ambrosia grower, allergy provider  
*B. Clot, Payerne*
- 11.30            Allergen measurements in ambient air: the HIALINE project  
*J. Buters, Munich*
- 11.50            LUNCH  
Posters discussion

### BIOLOGICAL ACTIVITIES OF ALLERGENS AND ALLERGEN CARRIERS

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*Chairpersons: M. Akdis (Davos), M. Raulf-Heimsoth (Bochum),  
S. Vieths (Langen)*

- 13.00            Introductory lecture: Pollen NADPH oxidases  
*S. Sur, Galveston TX*
- 13.30            Defense mechanisms in plants  
*J. Durner, Neuherberg*
- 13.50            Pollen as danger packages: Pollen-associated lipid mediators and beyond  
*C. Traidl-Hoffmann, Munich*

- 14.10 Allergy-relevant pathogenesis related (PR-) proteins and fruit coloring  
*W. Schwab, Weihenstephan*
- 14.30 Molecular basis of cross-reactivity  
*F. Ferreira, Salzburg*
- 14.50 Mechanisms of development of cross-reactive allergy  
*B. Bohle, Vienna*
- 15.10 BREAK  
Posters on display

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### **A NEW LOOK AT BASIC IMMUNE MECHANISMS IN ALLERGY**

*Chairpersons: K. Blaser (Bern), T. Bieber (Bonn)*

- 15.40 Introductory lecture: Mast cell activation in health and disease  
*S. Galli, Stanford CA*
- 16.10 T cells in concert  
*C. Schmidt-Weber, London*
- 16.30 The forgotten B cell repertoire  
*M. Mempel, Munich*
- 16.50 From innate to adaptive immunity in contact hypersensitivity  
*T. Jakob, Freiburg i.Br.*
- 19.30 WORKING DINNER  
Hofbräukeller, Innere Wiener Strasse 19

## **SATURDAY, JANUARY 31, 2009**

- 08.30 **CLINICAL ALLERGOLOGY: SHERLOCK HOLMES IN ALLERGY**  
*Chairpersons: K. Brockow (Munich), U. Darsow (Munich)*

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### **SENSE AND NONSENSE IN ALLERGY DIAGNOSTICS**

*Chairpersons: A. Kapp (Hannover), B. Przybilla (Munich)*

- 09.00 Introductory lecture: IgG4 breaking the rules  
*R. Aalberse, Amsterdam*
- 09.30 Component resolved allergy diagnostics and therapy  
*M. Ollert, Munich*
- 09.50 BREAK

## **BRAIN AND ALLERGY**

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*Chairpersons: M. Schwaiger (Munich), F. Hofmann (Munich)*

- 10.20      Introductory lecture: Brain, behaviour, and allergy  
*J. Bienenstock, Hamilton*
- 10.50      Modeling anxiety and depression in experimental systems  
*W. Wurst, Neuherberg*
- 11.10      Itch visualization in the brain  
*U. Darsow, Munich*
- 11.30      BREAK

## **FUTURE PERSPECTIVES**

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*Chairpersons: H. Wagner (Munich), J. Denburg (Hamilton)*

- 11.45      Statement: Necessity for networking in allergy  
*J. Denburg, Hamilton*
- 11.55      Is there an allergy protection in early life?  
*R. Lauener, Zurich*
- 12.25      Combination vaccination for viral infections and allergy  
*R. Valenta, Vienna*
- 12.55      **KEYNOTE LECTURE**  
**The future of tolerance induction**  
*C. Akdis, Davos*
- 13.25      Summing up  
*J. Ring, Munich*
- 13.30      END OF SYMPOSIUM  
Bavarian Brunch

## SCIENTIFIC ORGANIZATION

### Chairs

Univ. Prof. Dr. med. Heidrun Behrendt  
Univ. Prof. Dr. med. Dr. phil. Johannes Ring

### Local organizing committee

Prof. Dr. rer. pharm. Jeroen Buters	Prof. Dr. med. Markus Ollert
Prof. Dr. med. Ulf Darsow	PD Dr. med. Claudia Traidl-Hoffmann
PD Dr. med. Martin Mempel	PD Dr. med. Stephan Weidinger

### Scientific secretariat

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Supported by

GA<sup>2</sup>LEN - Center of Excellence in Allergy

Helmholtz Zentrum München - German Research Center for Environmental Health

Bavarian State Ministry of the Environment and Public Health

German Society of Allergology and Clinical Immunology,  
Section Environmental and Occupational Medicine

Münchener Allergiegesellschaft am Biederstein e.V.

Verein zur Förderung der Forschung und Fortbildung auf dem Gebiet der Dermatologie und Allergologie e.V.

Allergopharma Joachim Ganzer KG, Reinbek, Germany; Phadia AB, Freiburg i. Br., Germany; Essex Pharma GmbH, Munich, Germany; Bender MedSystems GmbH, Vienna, Austria; Miltenyi Biotec GmbH, Bergisch Gladbach, Germany

The symposium is certified by the Bayerische Landesärztekammer with 21 CME points

## SPEAKERS

- Rob Aalberse, Prof. Dr., Sanquin Research—AMC Landsteiner Laboratory, Department of Immunopathology, Amsterdam/The Netherlands
- Cezmi Akdis, Prof. Dr., Swiss Allergy and Asthma Research Institute (SIAF), Davos/Switzerland
- Francesca Alessandrini, PD Dr., Div. of Environmental Dermatology & Allergy HMGU/TUM, ZAUM - Center for Allergy and Environment, Technische Universität München, Munich/Germany
- John Bienenstock, Prof. MD, The Brain-Body Institute, St. Joseph's Healthcare Hamilton, Depts. of Pathology and Molecular Medicine, McMaster University, Hamilton/Canada
- Barbara Bohle, PhD Univ. Doz. Dr., Dept of Pathophysiology, Center for Physiology and Pathophysiology, Medical University of Vienna, Vienna/Austria
- Jeroen Buters, Prof. Dr., Div. of Environmental Dermatology & Allergy HMGU/TUM, ZAUM - Center for Allergy and Environment, Technische Universität München, Munich/Germany
- Bernard Clot, PhD, Bio- and Environmental Meteorology, Meteowiss, Payerne/Switzerland
- William O.C. Cookson, Prof. PhD, National Heart & Lung Institute, Imperial College London, London/UK
- Ulf Darsow, Prof. Dr., Div. of Environmental Dermatology & Allergy HMGU/TUM, Dept. of Dermatology and Allergy Biederstein, Technische Universität München, Munich/Germany
- David Diaz-Sanchez, PhD, Clinical Research Branch & Human Studies Division, NHEERL, ORD, U.S. Environmental Protection Agency, Chapel Hill, NC/USA
- Jörg Durner, Prof. Dr., Helmholtz Zentrum München - German Research Center for Environmental Health, Institute of Biochemical Plant Pathology, Neuherberg/Germany
- Fatima Ferreira-Briza, Mag. Dr. Ao. Univ. Prof., University of Salzburg, Department of Molecular Biology, Christian Doppler Laboratory for Allergy Diagnosis and Therapy, Salzburg/Austria
- Stephen J. Galli, Prof. MD, Dept. of Pathology, Stanford University School of Medicine, Stanford, CA/USA
- Joachim Heinrich, Dr., Helmholtz Zentrum München - German Research Center for Environmental Health, Institute of Epidemiology, Neuherberg/Germany
- Siegfried Jäger, Prof. Dr., HNO Klinik der Medizinischen Universität Wien, Vienna/Austria
- Thilo Jakob, Prof. Dr., Allergy Research Group, Dept. of Dermatology, University Medical Center Freiburg, Freiburg i. Br./Germany
- Hillel Koren, Prof. PhD, Institute for the Environment, University of North Carolina, Chapel Hill, NC/USA
- Ursula Krämer, PD Dr., Epidemiology Unit, Institut für umweltmedizinische Forschung, Düsseldorf/Germany
- Norbert Krug, Prof. Dr., Fraunhofer Institute of Toxicology and Experimental Medicine (ITEM), Hannover/Germany
- Roger Lauener, PD Dr., Hochgebirgsklinik Davos-Wolfgang and Children's Hospital, University Zurich, Zurich/Switzerland
- Martin Mempel, PD Dr., Div. of Environmental Dermatology and Allergy HMGU/TUM, Dept. of Dermatology and Allergy Biederstein, Technische Universität München, Munich/Germany
- Annette Menzel, Prof. Dr., Dept. of Ecoclimatology, Technische Universität München, Freising-Weihenstephan/Germany
- Markus Ollert, Prof. Dr., Clinical Research Group Molecular Allergology & Allergotoxicology, Dept. of Dermatology and Allergy Biederstein, Technische Universität München, Munich/Germany
- Tom A. Platts-Mills, MD Prof., University VA Medical Center, Asthma and Allergic Diseases Center, Charlottesville, VA/USA
- Harald Renz, Prof. Dr., Philipps-University Marburg, Dept. of Clinical Chemistry and Molecular Diagnostics, Marburg/Germany
- Hans Peter Schmid, Prof. Dr., Reseach Center Karlsruhe (FZK/IMK-IFU), Atmospheric Environmental Research, Institute of Meteorology and Climate Research, Garmisch-Partenkirchen/Germany
- Carsten Schmidt-Weber, PhD, Allergy and Clinical Immunology, Imperial College London, London/UK
- Werner Schmutz, Prof. Dr., Physikalisch-meteorologisches Observatorium Davos - World Radiation Center, Davos/Switzerland
- Wilfried Schwab, Prof. Dr., Biomolecular Food Technology, Dept. Food and Nutrition, Center of Life and Food Science, Technische Universität München, Weihenstephan/Germany
- Mikhail Sofiev, PhD, Air Quality Research, Finnish Meteorological Insitute, Helsinki/Finland
- Sanjiv Sur, Prof. MD, NHLBI Proteomics Center, Dept. of Biochemistry and Molecular Biology, University of Texas Medical Branch, Galveston, TX/USA
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- Wolfgang Wurst, Prof. Dr., Helmholtz Zentrum München - German Research Center for Environmental Health, Institute of Developmental Genetics, Neuherberg/Germany

## CHAIRPERSONS

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