About WAO
The World Allergy Organization (WAO) is an international alliance of 89 regional and national allergy, asthma and clinical immunology societies. Through collaboration with the Member Societies, WAO provides a wide range of educational and outreach programs, symposia and lectureships to allergists/immunologists around the globe and conducts initiatives relating to clinical practice, service provision, and physician training in order to better understand and address the challenges facing allergists/immunologists worldwide.

Mission
WAO’s mission is to be a global resource and advocate in the field of allergy, asthma and clinical immunology advancing excellence in clinical care through education, research and training as a worldwide alliance of allergy, asthma and clinical immunology societies.
Welcome to WISC 2012!

Dear Colleagues,

A warm welcome to Hyderabad, India – the host for the 2012 WAO International Scientific Conference (WISC): Severe Allergies, Severe Asthma: New Strategies for Treatment and Prevention!

On behalf of the Board of Directors of the World Allergy Organization (WAO) and the Organizing Committees of WISC 2012, we warmly welcome you to Hyderabad. We hope that as a key participant you will enjoy the science, the venue and the Conference, as well as the opportunity of interacting with colleagues sharing your interests.

We have worked hard over the last year to create a program that is stimulating and varied as well as relevant to you either as a clinician, researcher or both. There are a wide variety of courses and subjects offered: 24 Postgraduate Courses, 5 Plenary Sessions, 16 Parallel Symposia, 6 Keynote Lectures, 1 Special Lecture, 3 Poster Sessions, a half-day on Highlights in Immunotherapy, a General Practitioner Program and a Patient and Public Forum – all led by world-renowned opinion leaders. With the discipline of allergy cutting across different specialties, WISC 2012 aims to be a multidisciplinary forum designed to meet the needs of allergists, pulmonologists, otorhinolaryngologists, dermatologists, gastroenterologists, clinical immunologists, internists, pediatricians, and primary care physicians, as well as those wishing to learn more about how allergy impacts other specialties.

We do hope that the WISC 2012 will provide a forum for the most useful combination of latest research, review of current theory and practice, and hands-on, problem-based learning that will help you in your daily practice. Our aim is for you to gain insight into the most effective advances in the diagnosis, management and preventative strategies of complex and severe allergies and asthma, and associated diseases.

Thank you for attending WISC 2012! May your time in Hyderabad, India be a unique and memorable opportunity to learn, network and relax with friends and colleagues at a time when the science underpinning our specialties has reached such an exciting stage to impact patient care.

2012-2013 WAO Board of Directors

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## Conference Committees

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- Susan Prescott, Australia
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- Lanny J. Rosenwasser, United States
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- Hae-Sim Park, Korea

### Regional Advisory Committee
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- Heru Sundaru, Indonesia
- Mimi Tang, Australia
- Jiu-Yao Wang, Taiwan
- Gary Wing-Kin Wong, China
- Osman Yusuf, Pakistan
- Yuzhi Chen, China

### Local Organizing Committee
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- K. Satish, India, Co-Chair
- Vijai Kumar Ratnavelu, India, Coordinator
- Jyotsna Joshi, India
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- Sangeeta Amladi Kaya, India
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- H. Paramesh, India
- Rajendra Prasad, India
- Nagendra Prasad Komarla, India
- Sujeeet Rajan, India
- Ramesh B. Ramaiah, India
- K. Kanak Rao, India
- P. Ravindran, India
- Sundeepl Salvi, India
- Nishtah Shah, India
- S.K. Sharma, India
- Anand B. Singh, India
- Raj B. Singh, India
- Virendra Singh, India
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Moving to open access with BioMed Central in 2013

- Unrestricted access ensures wide dissemination of articles
- Thorough and efficient peer-review
- Authors retain copyright of articles
- Open access complies with funders' mandates such as NIH and Wellcome Trust

Rapid relief of nasal congestion at 6 hours

Diagnosis and management of allergic rhinitis
- Diagnosis of allergic rhinitis
- Symptoms and signs
- Management of allergic rhinitis

Preferred! Scent-free, alcohol-free, with glycerin

Approved in nasal polyps by US FDA

World's No. 1 prescribed INS

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Moving to open access with BioMed Central in 2013

- Unrestricted access ensures wide dissemination of articles
- Thorough and efficient peer-review
- Authors retain copyright of articles
- Open access complies with funders’ mandates such as NIH and Wellcome Trust
About WAO

The World Allergy Organization (WAO) is an international umbrella organization whose members consist of 89 regional and national allergology and clinical immunology societies from around the world. By collaborating with member societies, WAO provides direct educational outreach programs, symposia and lectureships to members in nearly 100 countries around the globe.

For your National Allergy Society to become a WAO Member Society, you must complete an application: www.worldallergy.org/wao_societies/apply.php.

The organization was founded in 1951 and has successfully organized 22 major congresses. WAO also sponsors scientific symposia in developing areas throughout the world and jointly sponsors postgraduate programs on allergy and clinical immunology during professional, non-allergy association congresses.

WAO is expanding its purview in a direct effort to bring together the member allergists and clinical immunologists who are engaged in research and/or practice throughout the world. The organization provides advice and active support to member societies with the mission of building a global alliance of allergy societies which will advance excellence in clinical care, research, education and training in allergy.

WAO is a member of the Council for International Organizations of Medical Science (CIOMS) and has a working relationship with the World Health Organization (WHO).

MISSION

WAO’s mission is to be a global resource and advocate in the field of allergy, asthma and clinical immunology advancing excellence in clinical care through education, research and training as a worldwide alliance of allergy, asthma and clinical immunology societies.

WAO MEETINGS

World Allergy Congress™ (WAC)

WAO hosts the World Allergy Congress™ (WAC) – its main scientific meeting – biennially in different regions of the world. Please join us in Milan, Italy in 2013 and Seoul, South Korea in 2015.

WAO International Scientific Conference (WISC)

In 2010, WAO launched its theme-based scientific conferences alternating with and complementing WAO’s biennial World Allergy Congresses. The Conferences provide a forum for the most useful combination of the latest research, review of current theory and practice, and hands-on, problem-based learning.

WORLD ALLERGY ORGANIZATION JOURNAL

The World Allergy Organization Journal (WAO Journal) provides a global forum for the exchange of research and information on allergy, asthma, and clinical immunology. The journal supports this scientific interaction among members of the World Allergy Organization, an alliance of 89 societies worldwide, through publication of original research, clinical reviews, position papers, and epidemiological studies that contribute to current knowledge in patient care. Articles cover diagnosis, therapeutic options, crisis management, and treatment efficacy. Authors and reviewers represent all geographic regions, providing a truly global perspective. Published monthly online, with access on computers and mobile devices, the journal ensures the widest availability of practice-relevant science at the point of care. In 2013, the WAO Journal will move to an open access model with publisher, BioMed Central. Access the WAO Journal at www.waojournal.org.

WAO ONLINE RESOURCES

As a leading global online destination for allergy, asthma and clinical immunology the WAO website provides access to reference databases, WAO educational activities and materials specifically designed for continued medical training.

Popular resources include:

- Specially commissioned educational synopses on major topics posted in the Allergic Diseases Resource Center
- Interactive case studies that challenge allergists to diagnose unusual cases
- Online learning programs including the Immunology Online Lecture Series, Asthma and Allergic Rhinitis Online Lecture Series, and the interactive learning modules with CME on Food Allergy, Drug Allergy, and Allergic Rhinitis
- An archive of symposia recorded at major meetings, and audio and video recordings of interviews with key opinion leaders around the world
- A special section, Defining the Specialty, which provides easy access to WAO publications and other resources that help to define the specialty of allergy and immunology including the WAO White Book on Allergy
- Disease-specific sections of the website including the Allergic Rhinitis Working Group, Small Airways Working Group, and the HAE International Alliance

The WAO website is HONcode certified.

www.worldallergy.org
About WAO

WAO PROGRAMS FOR EDUCATION, RESEARCH AND PATIENT CARE

Global Resources in Allergy™ (GLORIA)
GLORIA promotes best practices in the management of allergic disease through programs developed by international advisory expert panels. Modules are created from established guidelines and recommendations to address different aspects of allergy-related patent care. GLORIA is presented at national and regional allergy society meetings throughout the world and also at regional, state and local society meetings within the United States. All current GLORIA modules are available for free download at www.worldallergy.org/gloria.

World Allergy Forum ® (WAF)
The World Allergy Forum ® (WAF) program brings cutting edge symposia to major allergy meetings throughout the world. Developed by international expert advisory panels, the symposia provide up-to-the minute presentations on scientific and clinical developments in the field of allergic disease. WAF is the longest running educational program series sponsored by WAO and currently provides two or three placements a year with up to 1,000 attendees at each program. WAF is supported by an unrestricted educational grant from Novartis. View presentations for free at www.worldallergy.org/waf.

Emerging Societies Program (ESP)
In order to advance the WAO mission of supporting developments that will enable allergists to better serve patients now and in the future, the Emerging Societies Program (ESP) aims to disseminate information on and share experiences about new treatments for allergic disease and about new indications for available therapies. As a response to an area of need identified by ESP Delegates, the ESP has also started to offer World Allergy Training Schools (WATS) in various regions of the world. All ESP meetings and training schools are conducted with the help and support of WAO Member Societies and held in conjunction with a Member Society’s annual meeting and in partnership with the American College of Allergy, Asthma and Immunology (ACAAI). View all ESP activities at www.worldallergy.org/esp.

WAO PUBLICATIONS
WAO papers support and promote the specialty of allergy and help set standards for clinical practice and training. A full bibliography is available at www.worldallergy.org/publications/.

WORLD ALLERGY WEEK
In conjunction with its member societies, WAO hosts the annual World Allergy Week as a global effort to disseminate information of worldwide importance about allergic and immunologic diseases and asthma. It is also a vehicle for advocacy, drawing attention to the need for resources, especially in areas where unmet needs are great. Activities cover a wide spectrum to include press conferences locally and internationally, patient information sessions and free clinics, educational resources online, interaction through social media avenues, lectures and workshops for clinicians, and interviews for radio and television programs. The next World Allergy Week will be held from 8 to 14 April 2013. Watch for updates and view past activities at www.worldallergyweek.org.
Allergic Airways Diseases
All In One®-Power

Fast\(^1,^2\)
Long lasting\(^3\)
Non impairment in cognitive and psychomotor performance\(^4,^5\)
Non-sedating\(^6\)


Registered trade names are different across countries. Fexofenadine is marketed in India under the trade name Allegra. Telfast is not marketed in India.

The products mentioned on this page may be marketed or not in your country, dosages may be different. Before prescribing always refer to the Prescribing Information available in your country.

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WAO Member Societies

The World Allergy Organization (WAO), a world federation of allergy, asthma, and clinical immunology societies, consists of 89 member societies. All active members of dues-paying member societies are individual members of WAO. WAO would like to thank all member societies for their promotional support of WISC 2012!

MEMBER SOCIETIES

Albanian Society of Allergology and Clinical Immunology
National Association for Private Algerian Allergists
American Academy of Allergy, Asthma and Immunology
American College of Allergy, Asthma and Immunology
Argentine Association of Allergy and Immunology
Argentine Society of Allergy and Immunopathology
Australasian Society of Clinical Immunology and Allergy
Austrian Society of Allergology and Immunology
Azerbaijan Society for Asthma, Allergy and Clinical Immunology
Bangladesh Society of Allergy and Immunology
Belgian Society for Allergy and Clinical Immunology
Brazilian Society of Allergy and Immunopathology
British Society for Allergy and Clinical Immunology
Bulgarian Society of Allergology
Canadian Society of Allergy and Clinical Immunology
Chilean Society of Allergy and Immunology
Chinese Society of Allergy and Immunology
Colombian Allergy, Asthma, and Immunology Association
Croatian Society of Allergology and Clinical Immunology
Cuban Society of Allergology
Czech Society of Allergology and Clinical Immunology
Danish Society of Allergology
Egyptian Society of Allergy and Clinical Immunology
Egyptian Society of Pediatric Allergy and Immunology
Finnish Society of Allergology and Clinical Immunology
French Society of Allergology
Georgian Association of Allergology and Clinical Immunology
German Society for Allergy and Clinical Immunology
Hellenic Society of Allergology and Clinical Immunology
Honduran Society of Allergy and Clinical Immunology
Hong Kong Institute of Allergy
Hungarian Society of Allergology and Clinical Immunology
Icelandic Society of Allergy and Immunology
Indian College of Allergy, Asthma and Applied Immunology (ICCAI)
Indonesian Society for Allergy and Immunology
Israel Association of Allergy and Clinical Immunology
Italian Association of Territorial and Hospital Allergists
Italian Society of Allergy and Clinical Immunology
Japanese Society of Allergology
Jordanian Society for Allergy and Clinical Immunology
Korean Academy of Allergy, Asthma and Clinical Immunology
Kuwait Society of Allergy and Clinical Immunology
Latvian Association of Allergists
Lebanese Society of Allergy and Immunology
Malaysian Society of Allergy and Immunology
Mexican College of Clinical Immunology and Allergy
Mexican College of Pediatricians in Allergy and Clinical Immunology
Mongolian Society of Allergology
Moroccan Society of Allergology and Clinical Immunology
Netherlands Society of Allergology
Norwegian Society of Allergology and Immunopathology
Panamanian Association of Allergology and Clinical Immunology
Paraguayan Society of Immunology and Allergy
Peruvian Society of Allergy and Immunology
Philippine Society of Allergy, Asthma and Immunology
Polish Society of Allergology
Portuguese Society of Allergology and Clinical Immunology
Romanian Society of Allergology and Clinical Immunology
Russian Association of Allergology and Clinical Immunology
Serbian Association of Allergologists and Clinical Immunologists
Allergy and Clinical Immunology Society (Singapore)
Slovenian Association for Allergology and Clinical Immunology
Allergy Society of South Africa
Spanish Society of Allergology and Clinical Immunology
Swiss Society for Allergology and Immunology
Allergy, Asthma and Immunology Society of Thailand
Turkish National Society of Allergy and Clinical Immunology
Ukrainian Association of Allergologists and Clinical Immunologists
Uruguayan Society of Allergology
Venezuelan Society of Allergy and Immunology
Vietnam Association of Allergy, Asthma and Clinical Immunology
Zimbabwe Allergy Society

ASSOCIATE MEMBER SOCIETIES

Belarus Association of Allergology & Clinical Immunology
Ecuadorian Society of Allergy and Immunology
Ecuadorian Society of Allergy and Affiliated Sciences
Iranian Society of Asthma and Allergy
Moldavian Society of Allergology and Immunology
Swedish Association for Allergology
Tunisian Society of Respiratory Diseases and Allergology

REGIONAL ORGANIZATIONS

Asian Pacific Association of Allergy, Asthma and Clinical Immunology
Commonwealth of Independent States Society of Immunology and Allergology
European Academy of Allergology and Clinical Immunology
Latin American Society of Allergy and Immunology

AFFILIATE ORGANIZATIONS

British Society for Immunology
GA'LEN (Global Allergy and Asthma European Network)
International Association of Asthmology
International Primary Care Respiratory Group
Southern European Allergy Societies

Apply for your National Allergy Society to become a WAO Member Society at www.worldallergy.org/wao_societies/apply.php.
Hyderabad International Convention Centre (HICC) Floor Plan

GROUND FLOOR

Plenary Hall
Exhibit Hall
Hall 3
Hall 4
Symposia Rooms
Halls 1, 2, 5, 6
Postgraduate Courses
G.01, G.02, G.03, G.04, G.05, G.06
Speaker Ready Room
Organizer’s Office 1
Press Room
Organizer’s Office 2
Advanced allergy diagnostics

For almost 40 years, ImmunoDiagnostics, a part of Thermo Fisher Scientific and previously known as Phadia, has maintained global leadership in allergy diagnostics and become one of the world’s leading autoimmune disease test providers.

Our complete blood test systems help you diagnose, monitor and manage allergy and asthma diseases, and thus increase patient health and well-being.

Please visit us in our booth at the WISC 2012 to learn more about us and the services we can offer you.

Improved well-being

- better allergy diagnostics for improved quality of life • thermoscientific.com/phadia
ABSTRACTS
Accepted abstracts that were submitted for WISC 2012 have been placed in Poster Sessions on 6, 7 and 8 December. Abstract numbers are listed to the left of the abstract title in this Final Program. This number can be used to view, download or print the abstracts that interest you using the Handout Kiosks. Handout Kiosks are located outside of Hall 3 and Hall 4 on the Ground Floor of the Hyderabad International Convention Center (HICC). For abstract certificates, please visit the registration desk.

ABSTRACT DISTRIBUTION
Highly scored abstracts that are accepted for presentation at WISC 2012 will be published in the WAO Journal (www.waojournal.org). Abstract distribution is sponsored by:

BADGES
Each participant will receive a name badge upon check-in at the Registration Desk. The badge is the official Conference document and should be worn at all times in order to gain entry to the Conference session rooms and other events. Please note that access to any of the Conference areas or events will not be possible without an official name badge.

In order to comply with security requirements, participants are expected to wear their name badges at all times in all areas. If you lose your badge, a new one can be purchased at the Registration Assistance Desk for $50 USD / 2900 INR with photo identification.

CERTIFICATE OF ATTENDANCE
To receive your Certificate of Attendance, please visit the self-serve Attendance & CME Kiosks in the registration area of the HICC beginning on Friday, 7 December. You can log in using your last name and the ID number on your badge. You will then be asked to complete a short evaluation of the Conference. CME Certificates can also be printed at these kiosks.

If you do not have time to visit the Attendance & CME Kiosks during the Conference, the same evaluation and form will be available on the WAO website after the Conference.

CONTINUING MEDICAL EDUCATION (CME)
WISC 2012 is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) and the Medical Council of Andhra Pradesh in India.

European Accreditation Council for Continuing Medical Education (EACCME)
WISC 2012 is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

WISC 2012 is designated for a maximum of 24 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Division of Credits
Thursday, 6 December: 6 hours
Friday, 7 December: 6 hours
Saturday, 8 December: 6 hours
Sunday, 9 December: 6 hours

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.

To Receive EACCME Certificates
To receive your EACCME Certificate, please visit the self-serve CME & Certificate of Attendance Kiosks in the Registration Area of the HICC beginning on Friday, 7 December. You can log-in using your last name and the ID number on your badge. You will then be asked to complete a short evaluation of the Conference and indicate which days you attended the Conference. After you have completed these steps, a CME Certificate will print. Certificates of Attendance can also be printed at these kiosks.

If you do not have time to visit the CME & Certificate of Attendance Kiosks during the Conference, the same evaluation and form will be available on the WAO website after the Conference.
**Medical Council of Andhra Pradesh**

WISC 2012 has been approved for a total of 24 hours of Continuing Medical Education Credits through the Medical Council of Andhra Pradesh in India. The WISC 2012 Certificate of Attendance can be used to claim credits through the Medical Council of Andhra Pradesh.

**COFFEE BREAKS**

Coffee Breaks on 6, 7, 8 and 9 December are included in the registration fee and will be available during designated times.

The Coffee Break on 6 December will be located in Hall 1. Coffee Breaks on 7, 8 and 9 December will be located inside the Exhibit Hall – Hall 4 of the HICC.

**DRESS**

Dress for the Conference is business casual.

**EVALUATIONS**

Conference evaluations can be completed using the self-serve Attendance & CME Kiosks in the registration area of the HICC beginning on Friday, 7 December.

If you do not have time to visit the Attendance & CME Kiosks during the Conference, the same evaluation will be available on the WAO website after the Conference.

**EVENTS**

Name badges or tickets (for guests and accompanying persons) are strictly required for all events.

WISC 2012 invites delegates to participate in the following special events. Events have been created to give attendees the opportunity to network with fellow delegates.

**WISC 2012 Opening Ceremony and Cultural Program**

*Cultural Program hosted by the Honorable Chief Minister of Andhra Pradesh*

6 December 2012

18:00 – 19:30

HICC, Hall 3

Join fellow delegates, faculty and the WAO Leadership in Hall 3 of the HICC for the Opening Ceremony to launch the Conference. A cultural program, hosted by the Honorable Chief Minister of Andhra Pradesh will give an ode to the host state, Andhra Pradesh.

**WISC 2012 Welcome Reception**

*Hosted by the Honorable Chief Minister of Andhra Pradesh*

6 December 2012

19:30 – 21:30

Novotel Gardens

Following the Opening Ceremony, delegates will be asked to walk a short distance to the Novotel Gardens for hors d’oeuvres, beverages and the opportunity to network with colleagues and friends.

**WAO Junior Member Reception & Poster Session 1**

7 December 2012

16:30 – 17:30

HICC, Hall 4

Join fellow delegates for the WAO Junior Member Reception during Poster Session 1. This will be an opportunity for poster viewing and networking. Snacks and beverages will be provided to registered WISC 2012 delegates.

**WISC 2012 Conference Dinner**

*Hosted by the Honorable Chief Minister of Andhra Pradesh*

8 December 2012

19:30 – 22:30

Chowmahalla Palace

Join fellow WISC 2012 delegates at Chowmahalla Palace for dinner and entertainment. The palace was once regarded as the center of Hyderabad and was the seat of the Asaf Jahi dynasty where the Nizams entertained their official guests and royal visitors. Built over 200 years ago, Chowmahalla is renowned for its unique style and elegance. A synthesis of many architectural styles and influences, the Palace Complex has been meticulously restored.

Transportation to Chowmahalla Palace

Transportation to Chowmahalla Palace will depart from the Main Entrance of the HICC beginning at 17:45. The last bus will depart at 18:45.

Return buses will be provided back to the WISC 2012 official hotels beginning at 22:00.

**Event Tickets for Guests and Accompanying Persons**

If you would like to bring a guest to one of the above listed events, please visit the WISC 2012 Registration Desk to purchase tickets.

**Prices**

- WISC 2012 Opening Ceremony & Welcome Reception: $50 USD / 2900 INR
- WISC 2012 Conference Dinner: $100 USD / 5600 INR
Conference Information, A-Z

EXHIBIT HALL

A commercial exhibition will take place on the following dates and times and is located in Hall 4 of the HICC.

Friday, 7 December  09:00 – 17:30
Saturday, 8 December  09:00 – 17:00
Sunday, 9 December  09:00 – 17:00

Please view the Exhibit Hall Map and Directory on pages 68-73 for more information.

GUESTS AND CHILDREN

Delegates are asked to refrain from bringing guests and children to the scientific sessions of WISC 2012.

HANDOUT KIOSKS

Handout Kiosks are located outside of Hall 3 and Hall 4 on the Ground Floor of the HICC. Conference participants are encouraged to use these kiosks to view, download or print handouts. Handouts are provided by the Conference speakers and should be used to enhance your learning experience. Handouts include reading lists, outlines of presentations or PowerPoint slides.

To find a specific handout, you can search by the handout number (displayed on the left side of the talk title in this Final Program), by author name, session, talk title or topic.

Conference participants may also use the Handout Kiosks to view, download or print abstracts that are of interest. Abstract numbers are listed to the left of the abstract title in this Final Program.

INSURANCE/LIABILITIES AND DISCLAIMER

WAO will not be held liable for personal injuries or for loss of or damage to property incurred by participants or guests at the 2012 WAO International Scientific Conference, including those participating in tours and related events. Participants and guests are encouraged to purchase insurance to cover loss incurred in the event of cancellation, medical expenses or damage to or loss of personal effects when traveling outside of their own countries.

WAO cannot be held liable for any hindrance or disruption of the 2012 WAO International Scientific Conference proceedings arising from natural, political, social or economic events or other unforeseen incidents beyond its control. Registration of a participant implies acceptance of this condition.

The materials presented at this continuing medical education activity are made available for educational purposes only. The materials are not intended to represent the only, nor necessarily best, methods or procedures appropriate for the medical situations discussed, but rather are intended to present an approach, view, statement, or opinion of the faculty that may be helpful to others who face similar situations.

INTERNET ACCESS

Wireless internet access cards can be bought from HICC Reception (near the Main Entrance) for 800 INR + taxes for 8 hours usage.

LANGUAGE

The official language of the Conference is English. All sessions will be conducted in English.

LOST AND FOUND

Please visit the Registration Desk for any lost and found items.

LOST BADGES

If you lose your badge, a new one can be purchased at the Registration Desk for $50 USD / 2900 INR with photo identification.

LUNCH

Boxed lunches will be available to delegates on 6, 7, 8 and 9 December. Delegates MUST present a ticket in order to receive a lunch box. Lunch box tickets will be given with names badges in the registration packets.

Distribution Times & Locations:

Thursday, 6 December  12:00 – 13:30  Hall 1
Friday, 7 December  11:30 – 13:00  Hall 4
Saturday, 8 December  11:30 – 13:00  Hall 4
Sunday, 9 December  12:30 – 14:00  Hall 4

MCI INDIA INFORMATION DESK

The MCI India Information desk is located at the Main Entrance of the HICC. Please visit the desk for more information regarding WISC 2012 Accommodations, Optional Tours and Hotel Transfer information. You may also book airport transfers here.

This desk is staffed by MCI India. The World Allergy Organization has appointed MCI Management India Pvt. Ltd. as the PCO and Official Agency handling Accommodation, Tours and Transfers for WISC 2012.
Conference Information, A-Z

**MOBILE PHONE POLICY**

Use of mobile phones is strictly prohibited within the scientific session rooms and Exhibit Hall. Please ensure that your mobile phone is silenced while you are in the Conference venue.

**NO SMOKING POLICY**

Smoking is not permitted during any Conference activity or event.

**PARKING**

Free parking is available to registered delegates in the Novotel Hotel parking lot.

**PAYMENTS**

On-site payments can be made by credit card (Visa, MasterCard, or American Express) or cash (USD and INR only). Only delegates from India will be able to make credit card or cash payments in INR.

**PHOTOGRAPHY**

By registering to attend the 2012 WAO International Scientific Conference, you acknowledge and agree that official photographs taken during the Conference may be used for future WAO meeting promotional purposes and may be shared in the Conference Photo Gallery and post event news updates. Please contact the WAO Secretariat if you have any concerns with this policy. Personal photography is allowed, but please refrain from flash photography during the sessions.

**POSTER SESSIONS**

Poster Sessions will take place in the HICC, Exhibit Hall – Hall 4 on 7, 8 and 9 December. Please check the scientific program schedule for exact times. Presenting Authors will stand next to their posters and be available for discussion and questions.

**Poster Set:** Please be sure to set-up posters on the appropriate poster boards on Friday, 7 December between 09:00 – 16:00. Posters will remain on display throughout the Conference, and must be dismantled between 12:00 – 17:00 on Sunday, 9 December. Posters not dismantled by 17:30 on Sunday, 9 December will be discarded.

The abstract number, which is listed to the left of the abstract title in this Final Program, will also refer to the poster board number in the Exhibit Hall. 

*WISC 2012 Poster Sessions are sponsored by:*

**Outstanding Abstract Awards**

Abstracts that scored highly in the review process will be awarded with WISC 2012 Outstanding Abstract Awards. Awards will be given at the following time:

Sunday, 9 December 09:30 – 10:00  HICC, Hall 3

Abstracts that will be receiving awards are noted in this Final Program with this symbol: ![Symbol]

**PRESS ROOM**

The Press Room is located in the Organiser’s Suite 1 on the Ground Floor of the HICC. To obtain a press pass on-site, journalists must provide media identification or a business card issued by their news organization. Freelance writers must provide a letter of assignment on a news organization letterhead or bylined articles from a recognized news organization. Press badges will only be issued to journalists representing the editorial staff of print, broadcast, or internet media.

**Open Hours:**

- Thursday, 6 December 08:00 – 18:00
- Friday, 7 December 08:00 – 18:00
- Saturday, 8 December 08:00 – 18:00
- Sunday, 9 December 08:00 – 17:00
Conference Information, A-Z

POSTGRADUATE COURSE TICKETS

To reserve or exchange a ticket for the Postgraduate Courses on 6 December, please visit the Tickets Desk in the foyer outside of session rooms G.01-G.06 on 6 December from 07:00 – 16:00.

Postgraduate Courses have limited capacity and tickets must be presented in order to enter the sessions.

REFUNDS

There are no refunds for on-site payments.

REGISTRATION

Registration is located on the Ground Floor of the HICC.

Open Hours:
Wednesday, 5 December 15:00 – 19:00
Thursday, 6 December 07:00 – 19:00
Friday, 7 December 07:00 – 18:00
Saturday, 8 December 07:00 – 18:00
Sunday, 9 December 07:00 – 17:00

Conference Registration Includes:
Types: Delegates, Fellows-in-Training/Students, Allied Health Professionals
- Admission to all Scientific Sessions
- Admission to Exhibit Hall
- Admission to Poster Hall
- Certificate of Attendance
- CME Credits
- Conference Registration Bag and Materials
- Lunch on 6, 7, 8 and 9 December
- Coffee Breaks on 6, 7, 8 and 9 December
- WISC 2012 Opening Ceremony & Welcome Reception on 6 December - hosted by the Honorable Chief Minister of Andhra Pradesh
- WISC 2012 Conference Dinner of 8 December - hosted by the Honorable Chief Minister of Andhra Pradesh

Daily Registration Badges are also available for purchase at the Registration Desk. Please note the Daily Registration Rates do not include the Welcome Reception, Opening Ceremony or Conference Dinner.

RIBBONS

Ribbons are available near the Registration Desk on the Ground Floor of the HICC.

SPEAKER READY ROOM

The Speaker Ready Room is located in the Organiser’s Suite 1 on the Ground Floor of the HICC.

Speakers are asked to check-in, drop off and finalize their slide presentations. It is requested that speakers visit the Speaker Ready Room at least one hour before the beginning of their session. Speakers making early morning presentations should check in the previous day.

Open Hours:
Wednesday, 5 December 15:00 – 19:00
Thursday, 6 December 07:00 – 19:00
Friday, 7 December 07:00 – 18:00
Saturday, 8 December 07:00 – 18:00
Sunday, 9 December 07:00 – 17:00

TRANSPORTATION

Daily transfers between the HICC Main Entrance and the WISC 2012 official hotels will be provided for registered delegates. Please see page 76 for a full schedule.

VENUE

The venue of WISC 2012 is the Hyderabad International Convention Center (HICC) in Hyderabad, India.

Hyderabad International Convention Centre (HICC)
Novotel & HICC Complex
(Near Hitce City)
P.O. Bag 1101
Cyberabad Post Office
Hyderabad - 5000 081
India
Telephone: + 91 40 6616 3000/ 6682 4422
Fax: + 91 40 6613 4322
WAO EDUCATION RESEARCH TRUST
It is about ownership! Support World Allergy Organization Programs and Initiatives.

BECOME A “WAO FRIEND!”
WAO offers you the opportunity to ensure personally that WAO programs and initiatives flourish. The WAO Board of Directors asks you to contribute to the WAO Education Research Trust by adding an amount, in increments starting at $5, to your registration fee. The WAO Education Research Trust raises funds for the following programs: Emerging Societies, WAO Research Fellowships and International Travel Grants. If you choose to participate, your contribution will be added to your registration fee and will appear on your receipt as a separate line item.

For your support you will be recognized as “WAO Friend” with a ribbon attached to your registration badge and the 2012 WAO International Scientific Conference.
Scientific Program Information

OBJECTIVES
- To provide insights into the mechanisms and phenotypes of severe asthma and severe allergies
- To highlight the most recent advances and developments in treatment and preventative strategies of severe asthma and severe allergies including immunotherapy and biologics
- To provide an integrated approach to the diagnosis, management of severe and more complex forms of allergies
- To identify unmet needs and areas of research priorities

SESSION TYPES
WISC 2012 offers delegates educational opportunities in many different formats.

COMPANY SPONSORED SYMPOSIA
Company Sponsored Symposia are organized by industry. Company Sponsored Symposia are scheduled for 1 hour and 45 minutes on 8 and 9 December.

GENERAL PRACTITIONER PROGRAM
The General Practitioner Program has been designed to give general practitioners a basic overview of allergy, asthma and immunology. All attendees are welcome to attend during the sessions on 9 December.

KEYNOTE LECTURES
Keynote Lectures offer attendees the opportunity to attend a 30-minute lecture on a specific topic from one of the key opinion leaders in the field. Keynote Lectures will take place on 7, 8 and 9 December.

PLENARY SESSIONS
Plenary Sessions are the premier educational sessions of the Conference, presenting cutting-edge information on current and relevant topics in a didactic format. The speakers of the Plenary Sessions are top experts in their field. Plenary Sessions are scheduled on 7, 8 and 9 December, for 90 minutes.

POSTER SESSIONS
Poster Sessions feature accepted abstracts and the posters are displayed throughout the Conference. Poster Sessions are scheduled for one hour on 7, 8 and 9 December. Poster presenters will stand next to their posters and be available for discussion.

POSTGRADUATE COURSES
Ticket Required to Attend
Postgraduate Courses will be oriented toward the clinic and have a less formal approach. Attendance is limited and audience participation is encouraged.

SYMPOSIA
Symposia are didactic sessions and present topics of specific interest, providing the opportunity for in-depth and detailed exploration. Symposia are scheduled for 1 hour and 45 minutes on 7, 8 and 9 December.

SESSION GUIDE
CSS  Company Sponsored Symposium
GP  General Practitioner Program
KN  Keynote Lecture
PS  Plenary Session
POSTER  Poster Session
PG  Postgraduate Course
SL  Special Lecture
SY  Symposium
Congratulations to the 2012 WAO Travel Grant Recipients

THE TRAVEL GRANT Awardees Are:

Yael Minai-Fleminger
ISRAEL

David Jim Martino
AUSTRALIA

Luciana Kase Tanno
FRANCE

Wendy Ramirez Gonzalez
CUBA

Narasaiah Kolliputi
UNITED STATES

www.worldallergy.org
## Program-at-a-Glance—Thursday, 6 December

**HYDERABAD INTERNATIONAL CONVENTION CENTER (HICC)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>PG1: ANAPHYLAXIS TRACK - Evaluation, Management and Prevention of Anaphylaxis G.01</td>
</tr>
<tr>
<td>7:15</td>
<td>PG2: ASThma AND LOWER AIRWAY DIsEASE TRACK - Biomarkers, Lung Function and Bronchial Provocation Tests of Asthma G.02</td>
</tr>
<tr>
<td>7:30</td>
<td>PG3: DRUG ALLERGY TRACK - Practical Approaches to Aspirin and NSAID Hypersensitivity G.03</td>
</tr>
<tr>
<td>7:45</td>
<td>PG4: UPPER AIRWAY ALLERGIES TRACK - Objective Assessment of Upper Airway Diseases: Hands-on Rhinolaryngoscopy and Nasal Challenge Tests G.04</td>
</tr>
<tr>
<td>8:00</td>
<td>PG5: FOOD ALLERGY TRACK - Food Allergy Over the Life Course: From Childhood to Adulthood G.05</td>
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<tr>
<td>8:15</td>
<td>PG6: IMMUNOTHERAPY TRACK - Allergy Testing In-Vivo and In-Vitro G.06</td>
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<tr>
<td>8:30</td>
<td>Coffee Break Hall 1</td>
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<td>8:45</td>
<td>Lunch Break Hall 1</td>
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<tr>
<td>9:00</td>
<td>PG7: ANAPHYLAXIS TRACK - Causes of Anaphylaxis G.01</td>
</tr>
<tr>
<td>9:15</td>
<td>PG8: ASThma AND LOWER AIRWAY DIsEASE TRACK - Improving Patient’s Asthma Control and Quality of Life G.02</td>
</tr>
<tr>
<td>9:30</td>
<td>PG9: DRUG ALLERGY TRACK - Drug Allergy Evaluation and Management of Beta Lactam Allergy G.03</td>
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<tr>
<td>9:45</td>
<td>PG10: UPPER AIRWAY ALLERGIES TRACK - Practical Aspects of Managing Upper Airway Allergies G.04</td>
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<tr>
<td>10:00</td>
<td>PG11: FOOD ALLERGY TRACK - Food Allergy: Other Forms of Food Allergy G.05</td>
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<tr>
<td>10:15</td>
<td>PG12: IMMUNOTHERAPY TRACK - Practical Aspects of Immunotherapy G.06</td>
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<td>10:45</td>
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<tr>
<td>11:00</td>
<td>PG13: ALLERGY, ASThma AND SLEEP DISORDERS TRACK - Gastroesophageal Reflux Disease (GERD) G.01</td>
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<tr>
<td>11:15</td>
<td>PG14: ASThma AND LOWER AIRWAY DIsEASE TRACK - Improving Patient’s Asthma Control and Quality of Life G.02</td>
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<td>PG15: ATOPIC DERMATITIS TRACK - Managing Severe and Refractory Atopic Dermatitis G.03</td>
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<td>11:45</td>
<td>PG16: URTICARIA &amp; ANGIOEDEMA TRACK - Understanding and Managing Acute and Chronic Urticaria G.04</td>
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<td>12:00</td>
<td>PG17: FOOD ALLERGY TRACK - Recent Advances in Diagnosis and Oral Food Challenge Test G.05</td>
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<tr>
<td>12:15</td>
<td>PG18: IMMUNOTHERAPY TRACK - Managing Adverse Reactions to Immunotherapy G.06</td>
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<td>Coffee Break Hall 1</td>
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<td>Lunch Break Hall 1</td>
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<tr>
<td>13:00</td>
<td>PG19: ALLERGY, ASThma AND SLEEP DISORDERS TRACK - Sleep Workshop G.01</td>
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<td>13:15</td>
<td>PG20: INHALATION DEVICES TRACK G.02</td>
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<td>13:30</td>
<td>PG21: ATOPIC DERMATITIS TRACK - Understanding and Managing Atopic Dermatitis G.03</td>
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<td>13:45</td>
<td>PG22: URTICARIA &amp; ANGIOEDEMA TRACK - Diagnosis and Treatment of Hereditary Angioedema G.04</td>
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<tr>
<td>14:00</td>
<td>PG23: FOOD ALLERGY TRACK - Practical Management of Food Allergy and Oral Desensitization G.05</td>
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<tr>
<td>14:15</td>
<td>PG24: IMMUNOTHERAPY TRACK - Hands-On Demonstration of Allergen Preparation and Use G.06</td>
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<tr>
<td>14:30</td>
<td>WISC 2012 Opening Ceremony and Cultural Program Hall 3</td>
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<tr>
<td>14:45</td>
<td>WISC 2012 Welcome Reception Novotel Gardens</td>
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<tr>
<td>15:00</td>
<td>WISC 2012 Opening Ceremony and Cultural Program Hall 3</td>
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<tr>
<td>15:15</td>
<td>WISC 2012 Welcome Reception Novotel Gardens</td>
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**WISC 2012 Opening Ceremony and Cultural Program Hall 3**

**WISC 2012 Welcome Reception**

*Novotel Gardens*
HYDERABAD INTERNATIONAL CONVENTION CENTER (HICC)

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PS1: The Origins of Allergy
Hall 3

Close

SY2: Severe Upper Airways Disease
Halls 1&2

SY3: EAACI-WAO 2013 World Allergy
and Asthma Congress: Immune
Effector Mechanisms and Immune
Tolerance in Allergic Disease
Halls 5&6

KN1: The Role of Translational Research in Addressing Health Disparities Hall 3

KN2: European Respiratory Roadmap Hall 3

PS2: Food Allergy
Hall 3

SY4: Life Altering Allergic Disorders
Hall 3

SY5: Severe Ocular Allergies
Halls 1&2

SY6: The Environment and Occupational Allergies
Halls 5&6

Poster Session 1 and WAO Junior Member Reception Hall 4

SESSION GUIDE
CSS Company Sponsored Symposium
GP General Practitioner Program
KN Keynote Lecture
PS Plenary Session
POSTER Poster Session
PG Postgraduate Course
SL Special Lecture
SY Symposium

WISC 2012 | Hyderabad, India | 6-9 December 2012  Severe Allergies, Severe Asthma: New Strategies for Optimal Treatment & Prevention
Program-at-a-Glance—Saturday, 8 December

HYDERABAD INTERNATIONAL CONVENTION CENTER (HICC)

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Registration Open

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PS3: Severe Asthma
Hall 3

Coffee Break Hall 4

CSS1: Sanofi: Managing Airways Diseases in 2012
Hall 1

SY7: Childhood Asthma
Hall 3

SY8: Confounders of Asthma Treatment
Hall 2

SY9: Severe Adverse Reactions to Drugs
Halls 5&6

Special Lecture: Bronchial Thermoplasty in Asthma G.01

KN3: A Holistic Approach to Severe and Complex Allergies
Hall 3

KN4: Freddy Hargreave Memorial Lecture: Sputum Inflammometry in the Management of Severe Asthma
Hall 3

Poster Session 2
Hall 4

PS4: Anaphylaxis
Hall 3

Coffee Break Hall 4

CSS2: MSD: Asia Pacific Perspectives in Asthma Management
Hall 1

SY10: Allergy Diagnostics: Current and Future Perspectives
Hall 3

SY11: Indian College of Allergy, Asthma and Applied Immunology (ICAAI): Highlights of Airway Diseases in India
Hall 2

SY12: Precision Treatments in Allergic Disorders
Halls 5&6

WISC 2012 Conference Dinner
Chowmahalla Palace (19:30 – 22:30)
Program-at-a-Glance—Sunday, 9 December
HYDERABAD INTERNATIONAL CONVENTION CENTER (HICC)

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7:00
Registration Open

7:30
PS5: Skin Allergies
Hall 3

7:45
Outstanding Abstract Awards
Hall 3

8:00
Coffee Break
Hall 4

8:00
Poster Session 3
Hall 4

8:15
GP1: Objective
Assessment of
Upper Airway
Diseases: Hands-on
Rhinolaryngoscopy and
Nasal Challenge Tests
G.01

8:30
Worl Allergy Training School (WATS) G.03

8:45
Exhibit Hall Open
Hall 4

9:00
SY13: HIGHLIGHT ON
IMMUNOTHERAPY I
Hall 3

9:15
SY14: Disease
Prevention in the
New Millennium: Allergy in the Context
of other NCDs
Halls 5&6

9:30
SY15: Small Airways
Disease
Halls 5&6

9:45
CSS3: MSD: Upper
Airway Inflammatory
Disease: Opportunity
& Challenges
HICC - Hall 1

10:00
GP2: Spirometry and
Inhalation Devices
G.01

10:15
Das}

10:30
GP 3: Improving
Patient’s Asthma
Control and Quality
of Life
G.01

10:45
KN5: Pharmacogenetics
Hall 3

11:00
KN6: Immunotherapy: Th17 Cells and Immune Responses
Hall 3

11:15
Coffee Break
Hall 4

11:30
SY16: HIGHLIGHT ON
IMMUNOTHERAPY 2
Hall 3

11:45
SY17: Microbiome
Hall 2

12:00
SY18: Chronic
Rhinosinusitis
Halls 5&6

12:15
SY19: HIGHLIGHT ON
IMMUNOTHERAPY 3
Hall 3

12:30
Lunch
Hall 4

12:45
SY20: HIGHLIGHT ON
IMMUNOTHERAPY 4
Hall 3

13:00
SY21: HIGHLIGHT ON
IMMUNOTHERAPY 5
Hall 3

13:15
SY22: HIGHLIGHT ON
IMMUNOTHERAPY 6
Hall 3

13:30
SY23: HIGHLIGHT ON
IMMUNOTHERAPY 7
Hall 3

13:45
SY24: HIGHLIGHT ON
IMMUNOTHERAPY 8
Hall 3

14:00
SY25: HIGHLIGHT ON
IMMUNOTHERAPY 9
Hall 3

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SY26: HIGHLIGHT ON
IMMUNOTHERAPY 10
Hall 3

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SY27: HIGHLIGHT ON
IMMUNOTHERAPY 11
Hall 3

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SY28: HIGHLIGHT ON
IMMUNOTHERAPY 12
Hall 3

15:00
SY29: HIGHLIGHT ON
IMMUNOTHERAPY 13
Hall 3

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SY30: HIGHLIGHT ON
IMMUNOTHERAPY 14
Hall 3

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SY31: HIGHLIGHT ON
IMMUNOTHERAPY 15
Hall 3

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SY32: HIGHLIGHT ON
IMMUNOTHERAPY 16
Hall 3

16:00
SY33: HIGHLIGHT ON
IMMUNOTHERAPY 17
Hall 3

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SY34: HIGHLIGHT ON
IMMUNOTHERAPY 18
Hall 3

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SY35: HIGHLIGHT ON
IMMUNOTHERAPY 19
Hall 3

16:45
SY36: HIGHLIGHT ON
IMMUNOTHERAPY 20
Hall 3

17:00
SY37: HIGHLIGHT ON
IMMUNOTHERAPY 21
Hall 3

17:15
SY38: HIGHLIGHT ON
IMMUNOTHERAPY 22
Hall 3

17:30
SY39: HIGHLIGHT ON
IMMUNOTHERAPY 23
Hall 3

17:45
SY40: HIGHLIGHT ON
IMMUNOTHERAPY 24
Hall 3

18:00
SY41: HIGHLIGHT ON
IMMUNOTHERAPY 25
Hall 3

18:15
SY42: HIGHLIGHT ON
IMMUNOTHERAPY 26
Hall 3

18:30
SY43: HIGHLIGHT ON
IMMUNOTHERAPY 27
Hall 3

18:45
SY44: HIGHLIGHT ON
IMMUNOTHERAPY 28
Hall 3

19:00
SY45: HIGHLIGHT ON
IMMUNOTHERAPY 29
Hall 3

19:15
SY46: HIGHLIGHT ON
IMMUNOTHERAPY 30
Hall 3

19:30
SY47: HIGHLIGHT ON
IMMUNOTHERAPY 31
Hall 3

19:45
SY48: HIGHLIGHT ON
IMMUNOTHERAPY 32
Hall 3

20:00
SY49: HIGHLIGHT ON
IMMUNOTHERAPY 33
Hall 3

20:15
SY50: HIGHLIGHT ON
IMMUNOTHERAPY 34
Hall 3

20:30
SY51: HIGHLIGHT ON
IMMUNOTHERAPY 35
Hall 3

20:45
SY52: HIGHLIGHT ON
IMMUNOTHERAPY 36
Hall 3

21:00
SY53: HIGHLIGHT ON
IMMUNOTHERAPY 37
Hall 3

21:15
SY54: HIGHLIGHT ON
IMMUNOTHERAPY 38
Hall 3

21:30
SY55: HIGHLIGHT ON
IMMUNOTHERAPY 39
Hall 3

21:45
SY56: HIGHLIGHT ON
IMMUNOTHERAPY 40
Hall 3

22:00
SY57: HIGHLIGHT ON
IMMUNOTHERAPY 41
Hall 3
BEHIND THE SWEETEST MOMENTS HIS LIFE MAY BE IN IMMINENT DANGER

Are you ready to react on time against anaphylaxis?

1. Have you suffered a generalised severe allergic reaction in the past?
2. Have you suffered a food allergic reaction after eating a very small amount of food or have you reacted on skin contact?
3. Do you have asthma as well as food allergy?
4. Have you had an allergic reaction after eating egg, milk, nuts, seeds, shellfish, fish or fruit?

If you have answered yes to at least one of these questions, you may be at risk of ANAPHYLAXIS, an allergic condition that is severe and potentially life-threatening.

Ask your doctor how to protect yourself and your loved ones.
Scientific Program—Thursday, 6 December 2012

Tickets required for all Postgraduate Courses. Please visit the Tickets Desk in the foyer outside of session rooms G.01-G.06 on 6 December from 07:00 – 16:00 to reserve or exchange tickets.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>09:00 - 10:30</td>
<td>POSTGRADUATE COURSE 1</td>
</tr>
<tr>
<td></td>
<td><strong>ANAPHYLAXIS TRACK</strong></td>
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<td><strong>Evaluation, Management and Prevention of Anaphylaxis</strong></td>
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<td>Chairpersons: Anirban Maitra (India)</td>
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<td>Welcoming Remarks</td>
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<td>09:00 - 09:05</td>
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<tr>
<td>09:05 - 09:20</td>
<td>Understanding and Recognizing Anaphylactic Reactions</td>
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<tr>
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<td>Richard F. Lockey (United States)</td>
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<tr>
<td>09:20 - 09:35</td>
<td>Diagnostic Tests and Differential Diagnosis</td>
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<td>Dana Wallace (United States)</td>
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<td>09:35 - 09:50</td>
<td>Acute Management and Follow-Up Strategies</td>
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<td>F. Estelle R. Simons (Canada)</td>
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<td>09:50 - 10:30</td>
<td>Discussion</td>
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<tr>
<td>09:00 - 10:30</td>
<td>POSTGRADUATE COURSE 2</td>
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<td><strong>ASTHMA AND LOWER AIRWAY DISEASE TRACK</strong></td>
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<td>Chairpersons: Vijai Kumar Ratnavelu (India)</td>
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<td>09:00 - 09:05</td>
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<td>09:05 - 09:20</td>
<td>Biomarkers Such as Exhaled NO and Sputum Eosinophils</td>
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<td>Peter Le Souëf (Australia)</td>
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<td>09:20 - 09:35</td>
<td>Assessing Lung Function</td>
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<td>Randeep Guleria (India)</td>
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<td>09:35 - 09:50</td>
<td>Bronchial Provocation</td>
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<td>Lanny J. Rosenwasser (United States)</td>
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<td>09:50 - 10:30</td>
<td>Discussion</td>
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<td>09:00 - 10:30</td>
<td>POSTGRADUATE COURSE 3</td>
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<tr>
<td></td>
<td><strong>DRUG ALLERGY TRACK</strong></td>
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<td></td>
<td><strong>Practical Approaches to Aspirin and Non-Steroidal Anti-Inflammatory Drug (NSAID) Hypersensitivity</strong></td>
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<td>Chairpersons: Carsten Bindslev-Jensen (Denmark)</td>
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<td>Welcoming Remarks</td>
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<td>09:00 - 09:05</td>
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<td>09:05 - 09:20</td>
<td>Classification and Pathophysiology of Aspirin Hypersensitivity</td>
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<td>Mario Sánchez Borges (Venezuela)</td>
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<td>09:20 - 09:35</td>
<td>Diagnostic Testing</td>
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<td>Hiok Hee Chng (Singapore)</td>
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<td>09:35 - 09:50</td>
<td>Prevention and Management</td>
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<td>Hae-Sim Park (Korea)</td>
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<td>09:00 - 10:30</td>
<td>POSTGRADUATE COURSE 4</td>
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<td><strong>UPPER AIRWAY ALLERGIES TRACK</strong></td>
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<td><strong>Objective Assessment of Upper Airway Diseases: Hands-on Rhinolaryngoscopy and Nasal Challenge Tests</strong></td>
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<td>Chairpersons: Katsuhisa Ikeda (Japan)</td>
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<td>09:00 - 09:05</td>
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<td>09:05 - 09:20</td>
<td>Nasal Challenge Testing</td>
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<td>Ruby Pawankar (Japan)</td>
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<td>09:20 - 09:35</td>
<td>Imaging</td>
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<td>Claus Bachert (Belgium)</td>
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<td>09:35 - 09:50</td>
<td>Nasal Endoscopy: Practical Aspects</td>
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<td>Nishit Shah (India)</td>
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<td>09:50 - 10:30</td>
<td>Discussion</td>
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</table>
Scientific Program—Thursday, 6 December 2012

09:00 - 10:30 POSTGRADUATE COURSE 5

FOOD ALLERGY TRACK

Food Allergy Over the Life Course: From Childhood to Adulthood
Chairpersons: Amal Assa’ad (United States)
Kyu-Earn Kim (Korea)
09:00 - 09:05 Welcoming Remarks
09:05 - 09:20 5-1PG  Allergy to Wheat, an Alarming Type of Food Allergy in the Asia-Pacific | Pakit Vichyanond (Thailand)
09:20 - 09:35 5-2PG  Natural Course of Pediatric Food Allergy | Hugo Van Bever (Singapore)
09:35 - 09:50 5-3PG  Oral Allergy Syndrome and Food Induced Anaphylaxis | Richard Weber (United States)
09:50 - 10:30 Discussion

09:00 - 10:30 POSTGRADUATE COURSE 6

IMMUNOTHERAPY TRACK

Allergy Testing In-Vivo and In-Vitro
Chairpersons: Karnen Baratawidjaja (India)
Chaweewan Bunnag (Thailand)
09:00 - 09:05 Welcoming Remarks
09:05 - 09:20 6-1PG Interpretation of In-Vitro | Ignacio J. Ansotegui (Spain)
09:20 - 09:35 6-2PG Interpretation of In-Vivo | Sandra González-Díaz (Mexico)
09:35 - 09:50 6-3PG Development of Diagnosis and Treatment Based on Testing | Giovanni Passalacqua (Italy)
09:50 - 10:30 Discussion

10:30 – 11:00 COFFEE BREAK HALL 1

11:00 - 12:30 POSTGRADUATE COURSE 7

ANAPHYLAXIS TRACK

Causes of Anaphylaxis
Chairpersons: V.S. Advani (India)
Margitta Worm (Germany)
11:00 - 11:05 Welcoming Remarks
11:05 - 11:20 7-1PG Overview of Pathophysiology of Anaphylaxis | Margitta Worm (Germany)
11:20 - 11:35 7-2PG Conditions that Predispose Anaphylaxis | Sandra González-Díaz (Mexico)
11:35 - 11:50 7-3PG Anaphylaxis in Vulnerable Patients | Mario Sánchez Borges (Venezuela)
11:50 - 12:30 Discussion

11:00 - 12:30 POSTGRADUATE COURSE 8

ASTHMA AND LOWER AIRWAY DISEASE TRACK

Improving Patient’s Asthma Control and Quality of Life
Chairpersons: Arvind B. Bhome (India)
Byoung Whui Choi (Korea)
William Silvers (United States)
11:00 - 11:05 Welcoming Remarks
11:05 - 11:20 8-1PG Compliance and Treatment Adherence | Michael Blaiss (United States)
11:20 - 11:35 8-2PG Improving Patient’s Quality of Life | Vijai Kumar Ratnavelu (India)
11:35 - 11:50 8-3PG Implementation of Guidelines and Assessing Asthma Control | K.S. Satish (India)
11:50 - 12:30 Discussion
Thursday, 6 December 2012

**POSTGRADUATE COURSE 9**

**DRUG ALLERGY TRACK**

**Drug Allergy Evaluation and Management of Beta Lactam Allergy**

Chairpersons: Haee-Sim Park (Korea)
               Jung-Won Park (Korea)

11:00 - 11:05  Welcoming Remarks
11:05 - 11:20  9-1PG Patterns of Cross Reactivity | Werner Pichler (Switzerland)
11:20 - 11:35  9-2PG Clinical Presentation and Diagnosis | Carsten Bindslev-Jensen (Denmark)
11:35 - 11:50  9-3PG Desensitization Protocols | Hiock Hee Chng (Singapore)
11:50 - 12:30  Discussion

**POSTGRADUATE COURSE 10**

**UPPER AIRWAY ALLERGIES TRACK**

**Practical Aspects of Managing Upper Airway Allergies**

Chairpersons: Joong Saeng Cho (Korea)
               Nishit Shah (India)

11:00 - 11:05  Welcoming Remarks
11:05 - 11:20  10-1PG Managing Rhinitis and Co-morbidities in Children | Meenu Singh (India)
11:20 - 11:35  10-2PG Managing Rhinosinusitis in Children | Elham Hossny (Egypt)
11:35 - 11:50  10-3PG Managing Rhinitis and Co-morbidities in Adults | Pendakur Anand (India)
11:50 - 12:30  Discussion

**POSTGRADUATE COURSE 11**

**FOOD ALLERGY TRACK**

**Food Allergy: Other Forms of Food Allergy**

Chairpersons: Anne Goh (Singapore)
               Pakit Vichyanond (Thailand)

11:00 - 11:05  Welcoming Remarks
11:05 - 11:20  11-1PG Eosinophilic Esophagitis Update | Hugh Sampson (United States)
11:20 - 11:35  11-2PG Eosinophilic Gastroenterocolitis | Amal Assa’ad (United States)
11:35 - 11:50  11-3PG Other Non-IgE Mediated Food Allergies | Katie Allen (Australia)
11:50 - 12:30  Discussion

**POSTGRADUATE COURSE 12**

**IMMUNOTHERAPY TRACK**

**Practical Aspects of Immunotherapy**

Chairpersons: Nelson Rosario-Filho (Brazil)
               Hugo Van Bever (Singapore)

11:00 - 11:05  Welcoming Remarks
11:05 - 11:20  12-1PG Nuts and Bolts of Allergy Skin Testing | Nelson Rosario-Filho (Brazil)
11:20 - 11:35  12-2PG How to Write an Allergen Immunotherapy Prescription | Hugo Van Bever (Singapore)
11:35 - 11:50  12-3PG Selection and Preparation of Allergen Extracts | Richard F. Lockey (United States)
11:50 - 12:30  Discussion

**LUNCH BREAK**

12:30 – 13:30

Please present your green lunch ticket in order to receive your lunch box. Lunch tickets are provided in registration packets. For registered delegates only
### Scientific Program—Thursday, 6 December 2012

#### 13:30 - 15:00 POSTGRADUATE COURSE 13

**Gastroesophageal Reflux Disease (GERD)**

**Chairpersons:** Sergio Bonini (Italy)  
Neelam Mohan (India)

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<thead>
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<th>Time</th>
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<tbody>
<tr>
<td>13:30 - 13:35</td>
<td>Welcoming Remarks</td>
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<tr>
<td>13:35 - 13:50</td>
<td>13-1PG Clinical Signs and Symptoms</td>
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<td>13:50 - 14:05</td>
<td>13-2PG Clinical and Laboratory Diagnosis</td>
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<td>14:05 - 14:20</td>
<td>13-3PG Impact of the GE Reflux on Upper Airways Diseases</td>
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<td>14:20 - 15:00</td>
<td>Discussion</td>
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</table>

#### 13:30 - 15:00 POSTGRADUATE COURSE 14

**Asthma and Lower Airway Disease Track**

**Asthma Exacerbations: Treatment and Prevention**

**Chairpersons:** Joong Saeng Cho (Korea)  
G.C. Khilnani (India)

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<th>Time</th>
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<tr>
<td>13:30 - 13:35</td>
<td>Welcoming Remarks</td>
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<tr>
<td>13:50 - 14:05</td>
<td>14-2PG Acute Management and Prevention</td>
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<td>14:05 - 14:20</td>
<td>14-3PG Managing Virus-Induced Wheezing in Children</td>
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<td>14:20 - 15:00</td>
<td>Discussion</td>
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#### 13:30 - 15:00 POSTGRADUATE COURSE 15

**Atopic Dermatitis Track**

**Managing Severe and Refractory Atopic Dermatitis**

**Chairpersons:** Kiran Godse (India)  
Bok-Yang Pyun (Korea)

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<td>Welcoming Remarks</td>
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<td>13:35 - 13:50</td>
<td>15-1PG Atopic Dermatitis in Food Allergy</td>
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<td>13:50 - 14:05</td>
<td>15-2PG Role of Immunomodulators in Treatment</td>
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<tr>
<td>14:05 - 14:20</td>
<td>15-3PG Complications that Require Intervention</td>
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<td>14:20 - 15:00</td>
<td>Discussion</td>
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#### 13:30 - 15:00 POSTGRADUATE COURSE 16

**Urticaria and Angioedema Track**

**Understanding and Managing Acute and Chronic Urticaria**

**Chairpersons:** Konrad Bork (Germany)  
Sarbjit Saini (United States)

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<tr>
<td>13:30 - 13:35</td>
<td>Welcoming Remarks</td>
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<tr>
<td>13:35 - 13:50</td>
<td>16-1PG Classification and Pathophysiology of Urticaria and Angioedema</td>
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<td>13:50 - 14:05</td>
<td>16-2PG Diagnostic Approach and Treatment</td>
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<td>14:05 - 14:20</td>
<td>16-3PG Approach to Refractory Urticaria and Angioedema</td>
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<td>14:20 - 15:00</td>
<td>Discussion</td>
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*Video recording for this session sponsored by Sanofi.*

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**Enhance your Learning Experience!** Use the number to the left-side of the talk title or abstract to view, download or print materials at the Handout Kiosks, located at the entrances of Halls 3 & 4. Example: 6-3PG or 2001.
### Scientific Program—Thursday, 6 December 2012

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<td><strong>POSTGRADUATE COURSE 17</strong> G.05</td>
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<tr>
<td><strong>FOOD ALLERGY TRACK</strong></td>
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<td><strong>Recent Advances in Diagnosis and Oral Food Challenge Test</strong></td>
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<td>Chairpersons: Katie Allen (Australia) &lt;br&gt;Michael Levin (South Africa)</td>
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<td>13:35 - 13:50</td>
<td><strong>17-1PG Component Resolved Diagnostic (CRD)</strong> &lt;br&gt;Motohiro Ebisawa (Japan)</td>
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<td>13:50 - 14:05</td>
<td><strong>17-2PG Basophil Activation Markers</strong> &lt;br&gt;Takao Fujisawa (Japan)</td>
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<td>14:05 - 14:20</td>
<td><strong>17-3PG Oral Food Challenge</strong> &lt;br&gt;Alessandro Fiocchi (Italy)</td>
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<td>Discussion</td>
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<td>13:30 - 15:00</td>
<td><strong>POSTGRADUATE COURSE 18</strong> G.06</td>
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<td><strong>IMMUNOTHERAPY TRACK</strong></td>
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<td><strong>Managing Adverse Reactions to Immunotherapy</strong></td>
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<td>Chairpersons: Pendakur Anand (India) &lt;br&gt;G. Walter Canonica (Italy) &lt;br&gt;Ranbir Kaulsay (Ireland)</td>
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<td>13:35 - 13:50</td>
<td><strong>18-1PG Understand the Difference between Local and Systemic Reactions</strong> &lt;br&gt;Michael Blaiss (United States)</td>
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<td>13:50 - 14:05</td>
<td><strong>18-2PG Avoiding Adverse Reactions</strong> &lt;br&gt;Giovanni Passalacqua (Italy)</td>
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<td>14:05 - 14:20</td>
<td><strong>18-3PG Managing Adverse Reactions</strong> &lt;br&gt;Roy Gerth van Wijk (Netherlands)</td>
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<td>14:20 - 15:00</td>
<td>Discussion</td>
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<td>15:00 – 15:30</td>
<td><strong>COFFEE BREAK</strong> HALL 1</td>
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<td>15:30 - 17:00</td>
<td><strong>POSTGRADUATE COURSE 19</strong> G.01</td>
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<td><strong>ALLERGY, ASTHMA AND SLEEP DISORDERS TRACK</strong></td>
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<td><strong>Sleep Workshop</strong></td>
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<td>Chairpersons: Fernan Caballero-Fonseca (Venezuela) &lt;br&gt;Sanjeev Mehta (India) &lt;br&gt;Ajit Vigg (India)</td>
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<td>Welcoming Remarks</td>
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<td>15:35 - 15:50</td>
<td><strong>19-1PG Clinical Signs and Symptoms of Sleep Apnea</strong> &lt;br&gt;Peter Le Souèf (Australia)</td>
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<td>15:50 - 16:05</td>
<td><strong>19-2PG Evaluating a Patient with Sleep Apnea</strong> &lt;br&gt;Jyotsna Joshi (India)</td>
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<td>16:05 - 16:20</td>
<td><strong>19-3PG Practical Aspects of Treatment and Outcomes</strong> &lt;br&gt;J.C. Suri (India)</td>
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<td>16:20 - 17:00</td>
<td>Discussion</td>
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<td>15:30 - 17:00</td>
<td><strong>POSTGRADUATE COURSE 20</strong> G.02</td>
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<td><strong>INHALATION DEVICES TRACK</strong></td>
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<td>Chairpersons: Michael J. Abramson (Australia) &lt;br&gt;Michael Blaiss (United States)</td>
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<td>15:30 - 15:35</td>
<td>Welcoming Remarks</td>
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<td>15:35 - 15:50</td>
<td><strong>20-1PG Inhalation Devices in the United States</strong> &lt;br&gt;Michael Blaiss (United States)</td>
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<td>15:50 - 16:05</td>
<td><strong>20-2PG Inhalation Devices in India</strong> &lt;br&gt;Sujeet Rajan (India)</td>
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<td>16:05 - 16:20</td>
<td><strong>20-3PG Inhalation Devices in the Far East</strong> &lt;br&gt;Takao Fujisawa (Japan)</td>
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<td>16:20 - 17:00</td>
<td>Discussion</td>
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Scientific Program—Thursday, 6 December 2012

15:30 - 17:00  POSTGRADUATE COURSE 21  G.03

**ATOPIC DERMATITIS TRACK**

*Understanding and Managing Atopic Dermatitis*

*Chairpersons:* Tatiana Slavyanskaya (Russia)  
Fares Zaitoun (Lebanon)

15:30 - 15:35  Welcoming Remarks
15:35 - 15:50  21-1PG  *Overview of Pathogenesis*  |  Thomas Bieber (Germany)
15:50 - 16:05  21-2PG  *Diagnosis and Treatment*  |  Bok-Yang Pyun (Korea)
16:05 - 16:20  21-3PG  *Practical Issues in Skin Care*  |  Carsten Bindslev-Jensen (Denmark)
16:20 - 17:00  Discussion

15:30 - 17:00  POSTGRADUATE COURSE 22  G.04

**URTICARIA & ANGIOEDEMA TRACK**

*Diagnosis and Treatment of Hereditary Angioedema (HAE)*

*Chairpersons:* Jonathan Bernstein (United States)  
Ramesh B. Ramaiah (India)

15:30 - 15:35  Welcoming Remarks
15:35 - 15:50  22-1PG  *Definition and Mechanisms of HAE*  |  Konrad Bork (Germany)
15:50 - 16:05  22-2PG  *Diagnosis and Differential Diagnosis of HAE*  |  Connie Katelaris (Australia)
16:05 - 16:20  22-3PG  *Acute and Prophylactic Management*  |  Michihiro Hide (Japan)
16:20 - 17:00  Discussion

15:30 - 17:00  POSTGRADUATE COURSE 23  G.05

**FOOD ALLERGY TRACK**

*Practical Management of Food Allergy and Oral Desensitization*

*Chairpersons:* Motohiro Ebisawa (Japan)  
Jiu-Yao Wang (Taiwan)

15:30 - 15:35  Welcoming Remarks
15:35 - 15:50  23-1PG  *Regional Perspectives*  |  Bee Wah Lee (Singapore)
15:50 - 16:05  23-2PG  *Practical Management of Food Allergy*  |  Motohiro Ebisawa (Japan)
16:05 - 16:20  23-3PG  *Oral Immunotherapy*  |  Wesley Burks (United States)
16:20 - 17:00  Discussion

15:30 - 17:00  POSTGRADUATE COURSE 24  G.06

**IMMUNOTHERAPY TRACK**

*Hands-On Demonstration of Allergen Preparation and Use*

*Chairpersons:* Ignacio J. Ansotegui (Spain)  
Nagendra Komarla (India)

15:30 - 15:35  Welcoming Remarks
15:35 - 15:50  24-1PG  *Live Demonstration of Skin Prick Testing and Intradermal*  |  Dana Wallace (United States)
15:50 - 16:05  24-2PG  *Correlation of Testing with Challenge Data*  |  Roy Gerth van Wijk (Netherlands)
16:05 - 16:20  24-3PG  *Comparison of Preparation of SCIT vs SLIT*  |  Giovanni Passalacqua (Italy)
16:20 - 17:00  Discussion

WISC 2012 | Hyderabad, India | 6-9 December 2012  *Severe Allergies, Severe Asthma: New Strategies for Optimal Treatment & Prevention*
Scientific Program—Thursday, 6 December 2012

18:00 – 19:30  WISC 2012 OPENING CEREMONY AND CULTURAL PROGRAM  HALL 3

Cultural Program hosted by the Honorable Chief Minister of Andhra Pradesh

Join fellow delegates, faculty and the WAO Leadership in Hall 3 of the HICC for the Opening Ceremony to launch the Conference. A cultural program, hosted by the Honorable Chief Minister of Andhra Pradesh, will give an ode to the host state, Andhra Pradesh.

19:30 – 21:30  WISC 2012 WELCOME RECEPTION  NOVOTEL GARDENS

Hosted by the Honorable Chief Minister of Andhra Pradesh

Following the Opening Ceremony, delegates will be asked to walk a short distance to the Novotel Gardens for hors d’oeuvres, beverages and the opportunity to network with colleagues and friends.

Enhance your Learning Experience! Use the number to the left-side of the talk title or abstract to view, download or print materials at the Handout Kiosks, located at the entrances of Halls 3 & 4. Example: 6-3PG or 2001
## Scientific Program—Friday, 7 December 2012

### THE ORIGINS OF ALLERGY
**Chairpersons:** Lanny J. Rosenwasser (United States)  
K.S. Satish (India)

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<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tr>
<td>08:00 - 08:05</td>
<td></td>
<td><strong>Welcoming Remarks</strong></td>
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<tr>
<td>08:05 - 08:30</td>
<td>1-PS</td>
<td><strong>New Insights into the Developmental Origins of Allergy</strong></td>
<td>Susan Prescott (Australia)</td>
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<tr>
<td>08:30 - 08:55</td>
<td>2-PS</td>
<td><strong>Role of Tissues in Immune Tolerance Development in the Early Life</strong></td>
<td>Cezmi Akdis (Switzerland)</td>
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<tr>
<td>08:55 - 09:20</td>
<td>3-PS</td>
<td><strong>How Much Can Be Explained by Genetics and Epigenetics?</strong></td>
<td>Stephen T. Holgate (United Kingdom)</td>
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<tr>
<td>09:20 - 09:30</td>
<td></td>
<td><strong>Discussion</strong></td>
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### COFFEE BREAK
**Hall 4**

### SYMPOSIUM 1
**Hall 3**

### WAO-APAPARI SESSION
**Food Allergy and Gastrointestinal (GI) Tract**

**Chairpersons:** Mona Al-Ahmad (Kuwait)  
Jing-Long Huang (Taiwan)  
Neelam Mohan (India)

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<tr>
<th>Time</th>
<th>Session</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:00 - 10:05</td>
<td></td>
<td><strong>Welcoming Remarks</strong></td>
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<tr>
<td>10:05 - 10:25</td>
<td>1-SY</td>
<td><strong>Development of the GI Immune System and Oral Tolerance</strong></td>
<td>Wesley Burks (United States)</td>
</tr>
<tr>
<td>10:25 - 10:45</td>
<td>2-SY</td>
<td><strong>The Role of Dietary Nutrients in the Predisposition and Modulation of the Allergic Response</strong></td>
<td>Susan Prescott (Australia)</td>
</tr>
<tr>
<td>10:45 - 11:05</td>
<td>3-SY</td>
<td><strong>GI Manifestations of Food Allergy – Facts and Controversies</strong></td>
<td>Hugh Sampson (United States)</td>
</tr>
<tr>
<td>11:05 - 11:25</td>
<td>4-SY</td>
<td><strong>Component Analysis for Diagnosis</strong></td>
<td>Motohiro Ebisawa (Japan)</td>
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<tr>
<td>11:25 - 11:45</td>
<td></td>
<td><strong>Discussion</strong></td>
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### SYMPOSIUM 2
**Halls 1 & 2**

### SEVERE UPPER AIRWAYS DISEASE

**Chairpersons:** Yuzhi Chen (China)  
Nishit Shah (India)

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<td><strong>Welcoming Remarks</strong></td>
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<tr>
<td>10:05 - 10:25</td>
<td>1-SY</td>
<td><strong>Mechanisms of Upper Airway Inflammation</strong></td>
<td>Ruby Pawankar (Japan)</td>
</tr>
<tr>
<td>10:25 - 10:45</td>
<td>2-SY</td>
<td><strong>Upper Airway Barrier Function and Microbiome</strong></td>
<td>Claus Bachert (Belgium)</td>
</tr>
<tr>
<td>10:45 - 11:05</td>
<td>3-SY</td>
<td><strong>Severe Rhinosinusitis</strong></td>
<td>Robert Naclerio (United States)</td>
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<tr>
<td>11:05 - 11:30</td>
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<td><strong>Discussion</strong></td>
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### SYMPOSIUM 3
**Halls 5 & 6**

### EAACI-WAO WORLD ALLERGY AND ASTHMA CONGRESS
**Milan 2013: Immune Effector Mechanisms and Immune Tolerance in Allergic Disease**

**Chairpersons:** Cezmi Akdis (Switzerland)  
Dhiman Ganguly (India)

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<th>Time</th>
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<td><strong>Welcoming Remarks</strong></td>
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<tr>
<td>10:05 - 10:25</td>
<td>1-SY</td>
<td><strong>Cellular and Molecular Mechanisms of Allergen Tolerance</strong></td>
<td>Mubeccel Akdis (Switzerland)</td>
</tr>
<tr>
<td>10:25 - 10:45</td>
<td>2-SY</td>
<td><strong>Inflammatory Mediators of Allergic Asthma</strong></td>
<td>Lanny J. Rosenwasser (United States)</td>
</tr>
<tr>
<td>10:45 - 11:05</td>
<td>3-SY</td>
<td><strong>Inflammatory Biomarkers in Severe Asthma</strong></td>
<td>Stephen T. Holgate (United Kingdom)</td>
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<td>11:05 - 11:30</td>
<td></td>
<td><strong>Discussion</strong></td>
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</table>
Scientific Program—Friday, 7 December 2012

11:30 – 13:00  LUNCH BOX DISTRIBUTION  HALL 4
Delegates are asked to pick up lunch boxes in Hall 4 and bring boxes into Hall 3 for the Keynote Lectures. Please present your yellow lunch ticket in order to receive your lunch box. Lunch tickets are provided in registration packets. For registered delegates only.

11:45 - 12:15  KEYNOTE LECTURE 1  HALL 3
THE ROLE OF TRANSLATIONAL RESEARCH IN ADDRESSING HEALTH DISPARITIES
Chairperson:  Ruby Pawankar (Japan)
11:45 - 11:50  Welcoming Remarks
11:50 - 12:15  1-1KN  Vishwa Mohan Katoh (India)
   Director, Indian Council of Medical Research

12:15 - 12:45  KEYNOTE LECTURE 2  HALL 3
EUROPEAN RESPIRATORY ROADMAP
Chairperson:  Stephen T. Holgate (United Kingdom)
12:15 – 12:20  Welcoming Remarks
12:20 - 12:45  2-1KN  Klaus Rabe (Germany)
   Lecture supported by the European Respiratory Society (ERS)

12:45 - 14:15  PLENARY SESSION 2  HALL 3
FOOD ALLERGY
Chairpersons:  Alessandro Fiocchi (Italy)
   Hugo Van Bever (Singapore)
12:45 - 12:50  Welcoming Remarks
12:50 - 13:15  2-1PS  Hugh Sampson (United States)
   Severe Food Allergy - Prediction and Approach to Treatment
13:15 - 13:40  2-2PS  Alessandro Fiocchi (Italy)
   WAO Diagnosis and Rationale for Action against Cow's Milk Allergy (DRACMA) and Worldwide Food Allergy Guidelines
13:40 - 14:05  2-3PS  Motohiro Ebisawa (Japan)
   Prevention of Food Allergy: Is it Feasible?
14:05 - 14:15  Discussion

14:15 – 14:45  COFFEE BREAK  HALL 4

14:45 - 16:30  SYMPOSIUM 4  HALL 3
LIFE ALTERING ALLERGIC DISORDERS
Chairpersons:  Thomas Bieber (Germany)
   Carla Irani (Lebanon)
14:45 - 14:50  Welcoming Remarks
14:50 - 15:10  4-1SY  Konrad Bork (Germany)
   Hereditary Angioedema
15:10 - 15:30  4-2SY  Amal Assa'd (United States)
   Eosinophilic Esophagitis
15:30 - 15:50  4-3SY  F. Estelle R. Simons (Canada)
   Mastocytosis
15:50 - 16:10  4-4SY  Lanny J. Rosenwasser (United States)
   ICON Lecture on Eosinophilic Disorders
16:10 - 16:30  Discussion

Enhance your Learning Experience! Use the number to the left-side of the talk title or abstract to view, download or print materials at the Handout Kiosks, located at the entrances of Halls 3 & 4. Example: 6-3PG or 2001
Scientific Program—Friday, 7 December 2012

14:45 - 16:30  SYMPOSIUM 5  HALLS 1 & 2

SEVERE OCULAR ALLERGIES
Chairpersons:  Sunita Kanumury (United States)
              William Silvers (United States)
14:45 - 14:50  Welcoming Remarks
14:50 - 15:10  5-1SY  Pathophysiology of Ocular Allergies | Dana Wallace (United States)
15:10 - 15:30  5-2SY  Differential Diagnosis in Severe Ocular Allergies | Sergio Bonini (Italy)
15:30 - 15:50  5-3SY  Nasal Ocular Connections in Allergic Rhinoconjunctivitis | Robert Naclerio (United States)
15:50 - 16:10  5-4SY  Treatment Options in Ocular Allergies | Connie Katelaris (Australia)
16:10 - 16:30  Discussion

14:45 - 16:50  SYMPOSIUM 6  HALLS 5 & 6

THE ENVIRONMENT AND OCCUPATIONAL ALLERGIES
Chairpersons:  Young-Koo Jee (Korea)
               Jae-Won Oh (Korea)
14:45 - 14:50  Welcoming Remarks
14:50 - 15:10  6-1SY  Occupational Airway Diseases | Roy Gerth Van Wijk (Netherlands)
15:10 - 15:30  6-2SY  Genetic and Environmental Factors in the Etiology of Occupational Asthma | Hae-Sim Park (Korea)
15:30 - 15:50  6-3SY  Indoor and Outdoor Air Pollutants | Michael J. Abramson (Australia)
15:50 - 16:10  6-4SY  Biodiversity | Tari Haahtela (Finland)
16:10 - 16:30  6-5SY  Climate Change and Allergy | Gennaro D’Amato (Italy)
16:30 - 16:50  Discussion

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Proud sponsors of the 2012 WAO
International Scientific Conference Poster Sessions
**Scientific Program—Friday, 7 December 2012**

**16:30 - 17:30**  **WAO JUNIOR MEMBER RECEPTION & POSTER SESSION 1**  
**HALL 4**

Join fellow delegates for the WAO Junior Member Reception during Poster Session 1. This will be an opportunity for poster viewing and networking. Snacks and beverages will be provided to registered WISC 2012 delegates.

For full details of the below Poster Sessions, please view the “Poster” section of this Final Program.

**POSTER NUMBERS**

1001 – 1015  **Poster Session 1-1: Asthma Diagnosis and Treatment 1**  
Chairpersons:  Carlos E. Baena-Cagnani (Argentina)  
Raja Dhar (India)

1016 - 1029  **Poster Session 1-2: Asthma Diagnosis and Treatment 2**  
Chairpersons:  Saleh Al Muhsen (Saudi Arabia)  
Mario Castro (United States)

1030 – 1037  **Poster Session 1-3: Environmental and Occupational Respiratory Diseases 1**  
Chairpersons:  Mika Mäkelä (Finland)  
Wayne Thomas (Australia)

1038 – 1049  **Poster Session 1-4: Environmental and Occupational Respiratory Diseases 2**  
Chairpersons:  Roy Gerth van Wijk (Netherlands)  
Elham Hossny (Egypt)

1050 – 1063  **Poster Session 1-5: Environmental and Occupational Respiratory Diseases 3**  
Chairpersons:  S.K. Chhabra (India)  
Gennaro D’Amato (Italy)

1064 – 1078  **Poster Session 1-6: Mechanisms of Asthma and Allergic Disease 1**  
Chairpersons:  Fernan Caballero-Fonseca (Venezuela)  
S.K. Jindal (India)

1079 – 1094  **Poster Session 1-7: Mechanisms of Asthma and Allergic Disease 2**  
Chairpersons:  Carla Irani (Lebanon)  
John Sinn (Australia)

*Posters will remain on display throughout the Conference.*
Scientific Program—Saturday, 8 December 2012

08:00 - 09:30  PLENARY SESSION 3  HALL 3

SEVERE ASTHMA
Chairpersons:  You-Young Kim (Korea)
               A.A. Mahashur (India)

08:00 - 08:05  Welcoming Remarks
08:05 - 08:30  3-1PS  Severe Asthma Phenotypes in Adults | Rohit K. Katial (United States)
08:30 - 08:55  3-2PS  Severe Asthma Characteristics in Pediatrics | Peter Le Souëf (Australia)
08:55 - 09:20  3-3PS  Therapeutic Interventions in Severe Asthma | Thomas B. Casale (United States)
09:20 - 09:30  Discussion

Video recording for this session sponsored by Novartis.

09:30 – 10:00  COFFEE BREAK  HALL 4

10:00 - 10:30  SPECIAL LECTURE  G.01

BRONCHIAL THERMOPLASTY IN ASTHMA
Chairperson:  Parameswaran Nair (Canada)

10:00 – 10:05  Welcoming Remarks
10:05 – 10:30  1-1SL  Special Lecture | Mario Castro (United States)

10:00 - 11:45  COMPANY SPONSORED SYMPOSIUM 1  HALL 1

SANOFI: MANAGING AIRWAYS DISEASES IN 2012
Chairperson:  Randeep Guleria (India)

10:00 - 10:05  Welcoming Remarks
10:05 - 10:35  1-1CSS  The Impact of Allergic Rhinitis on Asthma - The Asian Perspective | Ruby Pawankar (Japan)
10:35 - 11:05  1-2CSS  Allergic Respiratory Diseases and its Co-morbidities: The Real Clinical Practice | Carlos E. Baena-Cagnani (Argentina)
11:05 - 11:30  1-3CSS  From the Mediators to the Patient | G. Walter Canonica (Italy)
11:35 - 11:45  Panel Discussion

10:00 - 11:30  SYMPOSIUM 7  HALL 3

CHILDHOOD ASTHMA
Chairpersons:  Stanley Fineman (United States)
               Elham Hossny (Egypt)

10:00 - 10:05  Welcoming Remarks
10:05 - 10:25  7-1SY  Early Viral Infections: Their Role in the Development of Asthma | Nelson Rosario-Filho (Brazil)
10:25 - 10:45  7-2SY  Rhinovirus (RV) and Respiratory Syncytial Virus (RSV) in Asthma | Peter Le Souëf (Australia)
10:45 - 11:05  7-3SY  Non-Viral Triggers of Asthma Exacerbation | Mika Mäkelä (Finland)
11:05 - 11:30  Discussion

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### Scientific Program—Saturday, 8 December 2012

**SYMPOSIUM 8**

**CONFOUNDERS OF ASTHMA TREATMENT**

Chairpersons: Jo Douglass (Australia)  
Narayan Mishra (India)  
Tatiana Slavyanskaya (Russia)

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<tr>
<th>Time</th>
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<tr>
<td>10:00 - 10:05</td>
<td>Welcoming Remarks</td>
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<tr>
<td>10:05 - 10:25</td>
<td>8-1SY Vocal Cord Dysfunction (VCD)</td>
<td>Rohit K. Katial (United States)</td>
</tr>
<tr>
<td>10:25 - 10:45</td>
<td>8-2SY Gastroesophageal Reflux Disease (GERD)</td>
<td>Richard F. Lockey (United States)</td>
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<tr>
<td>10:45 - 11:05</td>
<td>8-3SY Rhinosinusitis / Nasal Polyps</td>
<td>Claus Bachert (Belgium)</td>
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<tr>
<td>11:05 - 11:25</td>
<td>8-4SY Allergic Bronchopulmonary Aspergillosis (ABPA)</td>
<td>Ashok Shah (India)</td>
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<tr>
<td>11:25 - 11:45</td>
<td>8-5SY Difficult to Treat Asthma in the Indian Context</td>
<td>Zarir Udwadia (India)</td>
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<td>11:45 - 12:00</td>
<td>Discussion</td>
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**SYMPOSIUM 9**

**SEVERE ADVERSE REACTIONS TO DRUGS**

Chairpersons: Hiok Hee Chng (Singapore)  
Jaideep Gogtay (India)

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<tr>
<td>10:00 - 10:05</td>
<td>Welcoming Remarks</td>
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<tr>
<td>10:05 - 10:25</td>
<td>9-1SY Pathomechanisms of Severe Drug Allergy</td>
<td>Werner Pichler (Switzerland)</td>
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<tr>
<td>10:25 - 10:45</td>
<td>9-2SY Severe Reactions to Beta Lactam Antibiotics</td>
<td>Carsten Bindslev-Jensen (Denmark)</td>
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<tr>
<td>10:45 - 11:05</td>
<td>9-3SY Allergic Reactions to Biological and Chemotherapeutic Drugs</td>
<td>Mario Sánchez Borges (Venezuela)</td>
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<tr>
<td>11:05 - 11:25</td>
<td>9-4SY Management of Aspirin and NSAID Hypersensitivity</td>
<td>Hae-Sim Park (Korea)</td>
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<td>11:25 - 11:45</td>
<td>Discussion</td>
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**LUNCH BOX DISTRIBUTION**

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**KEYNOTE LECTURE 3**

**A HOLISTIC APPROACH TO SEVERE AND COMPLEX ALLERGIES**

Chairperson: Jyotsna Joshi (India)

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<tr>
<td>12:00 - 12:05</td>
<td>Welcoming Remarks</td>
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<tr>
<td>12:05 - 12:30</td>
<td>3-1KN Ruby Pawankar (India)</td>
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Scientific Program—Saturday, 8 December 2012

12:30 - 13:00  KEYNOTE LECTURE 4  HALL 3

FREDDY HARGREAVE MEMORIAL LECTURE

Sputum Inflammometry in the Management of Severe Asthma
Chairperson:  Zarir Udwadia (India)
12:30 - 12:35     Welcoming Remarks
12:35 - 13:00     4-1KN   | Keynote Lecture 4 | Parameswaran Nair (Canada)

Frederick E. Hargreave, MB ChB, MD, FRCP, FRCPC
Emeritus Professor of Medicine, McMaster University
Frederick E. Hargreave
22 November 1938 – 15 June 2011

Freddy Hargreave joined McMaster University in 1969 in the early days of the Michael G. DeGroote School of Medicine after his medical training at the University of Leeds and research training with Professor Jack Pepys at the Brompton Hospital in London where he described a new clinical entity called ‘Bird Fancier’s Lung’. At McMaster University, along with his close friend and colleague Professor Jerry Dolovich, his studies in asthma changed the way the disease is diagnosed. He developed innovative tests to measure airway responsiveness and airway inflammation and make decisions on clinical treatments. Professor Hargreave changed the focus from just treating asthma symptoms to preventing and controlling them. He was known as an excellent teacher, and he trained many of the world’s current leaders in asthma research. Most importantly, he cared for his patients in an exemplary manner with unfailing courtesy, dedication, humility and kindness. He constantly endeavored to bring the health challenges his patients faced every day to the research community in order to find better ways to improve the quality of their lives.

13:00 - 14:00  POSTER SESSION 2  HALL 4

For full details of the below Poster Sessions, please view the “Poster” section of this Final Program.

POSTER NUMBERS

2001 – 2018  Poster Session 2-1: Allergic Diseases of the Skin and Drug Allergies 1
Chairpersons:  Anne Goh (Singapore)
              Bee Wah Lee (Singapore)

2019 – 2036  Poster Session 2-2: Allergic Diseases of the Skin and Drug Allergies 2
Chairpersons:  Hiok Hee Chng (Singapore)
              Connie Katelaris (Australia)

2037 – 2051  Poster Session 2-3: Food Allergy and Anaphylaxis 1
Chairpersons:  Suleiman Al-Hammadi (United Arab Emirates)
               Alessandro Fiocchi (Italy)

2052 – 2065  Poster Session 2-4: Food Allergy and Anaphylaxis 2
Chairpersons:  Jo Douglass (Australia)
               Fares Zaitoun (Lebanon)

2066 – 2075  Poster Session 2-5: Immunotherapy 1
Chairpersons:  Pendakur Anand (India)
               Nelson Rosario-Filho (Brazil)

2076 – 2084  Poster Session 2-6: Immunotherapy 2
Chairpersons:  Ignacio J. Ansotegui (Spain)
               Thomas B. Casale (United States)

2085 – 2103  Poster Session 2-7: Rhinitis, Sinusitis and Ocular Disease
Chairpersons:  Claudia Ivonne Gallego (México)
               Achal Gulati (India)

Posters will remain on display throughout the Conference.
### Scientific Program—Saturday, 8 December 2012

**14:00 - 15:30**  
**PLENARY SESSION 4**  
**HALL 3**

**ANAPHYLAXIS**

Chairpersons:  
Yin Jia (China)  
Mario Sánchez Borges (Venezuela)

- **14:00 - 14:05** Welcoming Remarks
- **14:05 - 14:30**  
  4-1PS **Mechanisms of Anaphylaxis** | Richard F. Lockey (United States)
- **14:30 - 14:55**  
  4-2PS **2012 Update: WAO Anaphylaxis Guidelines** | F. Estelle R. Simons (Canada)
- **14:55 - 15:20**  
  4-3PS **Anaphylaxis, Asthma and Pregnancy** | Sandra González-Díaz (México)
- **15:20 - 15:30** Discussion

Video recording for this session sponsored by Sanofi.

**15:30 – 15:45** COFFEE BREAK **HALL 4**

**15:45 - 17:30** **COMPANY SPONSORED SYMPOSIUM 2**  
**HALL 1**

**MSD: ASIA PACIFIC PERSPECTIVES IN ASTHMA MANAGEMENT**

Chairperson: Randeep Guleria (India)

- **15:45 - 15:55** Welcoming Remarks
- **15:55 - 16:15**  
  2-1CSS **Asthma Insight Management (AIM) Survey: Challenges & Unmet Needs** | Sandeep Salvi (India)
- **16:15 - 16:40**  
  2-2CSS **Diagnostic & Treatment of Childhood Asthma** | H. Paramesh (India)
- **16:40 - 17:05**  
  2-3CSS **Bridging Gap Between Patient Perceptions & Realities in Adult Asthma** | Hae-Sim Park (Korea)
- **17:05 - 17:30** Panel Discussion

**15:45 - 17:30** **SYMPOSIUM 10**  
**HALL 3**

**ALLERGY DIAGNOSTICS: CURRENT AND FUTURE PERSPECTIVES**

Chairpersons: Mübeccel Akdis (Switzerland)  
Syed Mohammed Hasnain (Saudi Arabia)

- **15:45 - 15:50** Welcoming Remarks
- **15:50 - 16:10**  
  10-1SY **In-Vivo and In-Vitro Diagnostic Tests** | Ignacio J. Ansotegui (Spain)
- **16:10 - 16:30**  
  10-2SY **Molecular Characterization of Aeroallergens** | Wayne Thomas (Australia)
- **16:30 - 16:50**  
  10-3SY **Molecular Characterization of Food Allergens** | Wesley Burks (United States)
  
  Lecture supported by the American Academy of Allergy, Asthma and Immunology
- **16:50 - 17:10**  
  10-4SY **Molecular Allergology** | G. Walter Canonica (Italy)
- **17:10 - 17:30** Discussion

**15:45 - 17:30** **SYMPOSIUM 11**  
**HALL 2**

**INDIAN COLLEGE OF ALLERGY, ASTHMA AND APPLIED IMMUNOLOGY (ICAAI)**

**Highlights of Airway Diseases in India**

Chairpersons: Ashok Shah (India)  
Anand B. Singh (India)

- **15:45 - 15:50** Welcoming Remarks
- **15:50 - 16:10**  
  11-1SY **Epidemiology of Airway Diseases, Asthma and COPD in India** | S.K. Jindal (India)
- **16:10 - 16:30**  
  11-2SY **Genetics of Asthma in India** | Balram Ghosh (India)
- **16:30 - 16:50**  
  11-3SY **Impact of Indoor and Outdoor Pollution on Allergic Airway Disease in India** | S.K. Chhabra (India)
- **16:50 - 17:10**  
  11-4SY **Pediatric Asthma in India** | H. Paramesh (India)
- **17:10 - 17:30** Discussion

This Symposium is supported by an Educational Grant from GSK.

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WISC 2012 | Hyderabad, India | 6-9 December 2012  
Severe Allergies, Severe Asthma: New Strategies for Optimal Treatment & Prevention
Scientific Program—Saturday, 8 December 2012

15:45 - 17:30 SYMPOSIUM 12 HALLS 5 & 6

PRECISION TREATMENTS IN ALLERGIC DISORDERS

Chairpersons: Jonathan Bernstein (United States)
                Mario Castro (United States)

15:45 - 15:50 Welcoming Remarks
15:50 - 16:10 12-1SY Update on Anti-IgE | Stephen T. Holgate (United Kingdom)
16:10 - 16:30 12-2SY Update on Anti-Cytokines | Lanny J. Rosenwasser (United States)
16:30 - 16:50 12-3SY Designer Drugs: Antibodies to Inhibitory Receptors | Francesca Levi-Schaffer (Israel)
16:50 - 17:10 12-4SY New Imaging Approaches to Asthma | Mario Castro (United States)
17:10 - 17:30 Discussion

Video recording for this session sponsored by Novartis.

19:30 – 22:30 WISC 2012 CONFERENCE DINNER CHOWMAHALLA PALACE

Hosted by the Honorable Chief Minister of Andhra Pradesh

Join fellow WISC 2012 attendees at Chowmahalla Palace for dinner and entertainment.

Transportation to Chowmahalla Palace

Transportation to Chowmahalla Palace will depart from the Main Entrance of the HICC beginning at 17:45. Last bus will depart at 18:45. Return buses will be provided back to the WISC 2012 official hotels beginning at 22:00.

Name badges or tickets (for guests and accompanying persons) are strictly required for the WISC 2012 Conference Dinner.
The Patient Forum will be held at The Apollo Hospital in Jubilee Hills, Hyderabad.

Welcome and Objectives of the Course
Ruby Pawankar, WAO President

How to Build Patient Organizations 10.00–12.00

Advantages and Discussion of Patient Organizations

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antje Fink-Wagner</td>
<td>Global Allergy and Asthma Patient Platform</td>
</tr>
<tr>
<td>Prof. Yuzhi Chen</td>
<td>Chinese Patient Organization</td>
</tr>
<tr>
<td>Mariko Kuriyama</td>
<td>Japanese Patient Organization</td>
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<tr>
<td>Prof. Mari Shiozaki</td>
<td>Associate Professor Meijo University</td>
</tr>
<tr>
<td>Anna Andralojc</td>
<td>Polish Federation of Asthma, Allergy and COPD</td>
</tr>
<tr>
<td>Prof. Boleslaw Samolinski</td>
<td>Medical University of Warsaw, Polish Society of Allergology</td>
</tr>
<tr>
<td>Anthony Castaldo</td>
<td>HAEi International Patient Organization</td>
</tr>
</tbody>
</table>

Public Forum 13.00–15.30

Discussion of Allergy, Asthma and Treatment
Led by Local and International Physicians

Spirometry Testing

With over 8500 beds across 50 hospitals within and outside India, the Apollo Hospitals Group is one of the largest healthcare groups in Asia and has some of the best hospitals in India. The legacy of touching lives stems from the four pillars of our philosophy - experience, excellence, expertise and research. At Apollo Hospitals India, we unite exceptional clinical success rates and superior technology with centuries-old traditions of Eastern care and warmth, as we truly believe the world is our extended family - something our 26 million patients across the globe can warmly affirm. This has made Apollo Hospitals as one of the most desired medical tourism destinations in India.

This Program is supported by:
Scientific Program—Sunday, 9 December 2012

08:00 - 09:30  PLENARY SESSION 5  HALL 3

SKIN ALLERGIES
Chairpersons: Sandra González-Díaz (México)
Menachem Rottem (Israel)
Meenu Singh (India)

08:00 - 08:05  Welcoming Remarks
08:05 - 08:30  5-1PS  Update on Chronic Urticaria | Mario Sánchez Borges (Venezuela)
08:30 - 08:55  5-2PS  Severe Atopic Dermatitis: A Challenge for the Clinician | Thomas Bieber (Germany)
08:55 - 09:20  5-3PS  How to Deal with Refractory Urticaria | Sarbjit Saini (United States)
09:20 - 09:30  Discussion

08:30 - 10:00  GENERAL PRACTITIONER PROGRAM 1  G.01

OBJECTIVE ASSESSMENT OF UPPER AIRWAY DISEASES: HANDS-ON RHINOLARYNGOSCOPY AND NASAL CHALLENGE TESTS

08:30 - 08:35  Welcoming Remarks
08:35 - 08:55  1-1GP  Nasal Examination for Upper Airway Disease | Manabu Nonaka (Japan)
08:55 - 09:15  1-2GP  Imaging | Claus Bachert (Belgium)
09:15 - 09:35  1-3GP  Nasal Endoscopy: Practical Aspects | Nishit Shah (India)
09:35 - 10:00  Discussion

09:30 - 10:00  OUTSTANDING ABSTRACT AWARDS  HALL 3
Abstracts that scored highly in the review process will be awarded with WISC 2012 Outstanding Abstract Awards. Abstracts that will be receiving awards are noted in the Posters section with this symbol: 🎊

10:00 - 10:30  COFFEE BREAK  HALL 4

10:30 - 11:30  POSTER SESSION 3  HALL 4
For full details of the below Poster Sessions, please view the “Poster” section of this Final Program.

POSTER NUMBERS

3001 – 3009  Poster Session 3-1: Allied Health
Chairpersons: Barnali Bhattacharya (India)
Dana Wallace (United States)

3010 – 3016  Poster Session 3-2: Basic and Clinical Immunology 1
Chairperson: Francesca Levi-Schaffer (Israel)

3017 – 3036  Poster Session 3-3: Basic and Clinical Immunology 2
Chairpersons: Harald Renz (Germany)
Christina West (Sweden)

3037 – 3050  Poster Session 3-4: Health Outcomes, Education, Healthcare Delivery and Quality 1
Chairpersons: Jung-Won Park (Korea)
João Tebyrica (Brazil)

3051 – 3063  Poster Session 3-5: Health Outcomes, Education, Healthcare Delivery and Quality 2
Chairpersons: Yuzhi Chen (China)
Peter Le Souèf (Australia)

Posters will remain on display throughout the Conference.
### GENERAL PRACTITIONER PROGRAM 2

**Sunday, 9 December 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
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<tbody>
<tr>
<td>11:00 - 12:30</td>
<td><strong>SPIROMETRY AND INHALATION DEVICES</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Welcoming Remarks</strong></td>
</tr>
<tr>
<td>11:00 - 11:05</td>
<td><strong>2-1GP Spirometry</strong></td>
</tr>
<tr>
<td>11:05 - 11:25</td>
<td><strong>2-2GP Inhalation Devices</strong></td>
</tr>
<tr>
<td>11:25 - 11:45</td>
<td><strong>2-3GP Inhalation Devices in India</strong></td>
</tr>
<tr>
<td>12:05 - 12:30</td>
<td><strong>Discussion</strong></td>
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</tbody>
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**COMPANY SPONSORED SYMPOSIUM 3**

**Sunday, 9 December 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>11:30 - 13:00</td>
<td><strong>MSD: UPPER AIRWAY INFLAMMATORY DISEASE: OPPORTUNITY &amp; CHALLENGES</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Chairperson:</strong> K.R. Meghanadh (India)</td>
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<tr>
<td>11:30 - 11:35</td>
<td><strong>Welcoming Remarks</strong></td>
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<tr>
<td>11:35 - 12:00</td>
<td><strong>3-1CSS Management and Structured Approach for Allergic Rhinitis (AR) Patient in Clinical Setting</strong></td>
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<tr>
<td>12:00 - 12:25</td>
<td><strong>3-2CSS Management of Rhinosinusitis &amp; Nasal Polyps 2012</strong></td>
</tr>
<tr>
<td>12:25 - 12:50</td>
<td><strong>3-3CSS Diagnostic Tools in Rhinology: AR, Nasal Polyposis &amp; Rhinosinusitis</strong></td>
</tr>
<tr>
<td>12:50 - 13:00</td>
<td><strong>Panel Discussion</strong></td>
</tr>
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</table>

**SYMPOSIUM 13**

**Sunday, 9 December 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30 - 13:00</td>
<td><strong>HIGHLIGHT ON IMMUNOTHERAPY 1</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Chairpersons:</strong> Wesley Burks (United States) Hee-Bom Moon (Korea)</td>
</tr>
<tr>
<td>11:30 - 11:35</td>
<td><strong>Welcoming Remarks</strong></td>
</tr>
<tr>
<td>11:35 - 11:55</td>
<td><strong>13-1SY Mechanisms of Immunotherapy</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Lecture supported by the European Academy of Allergy and Clinical Immunology</strong></td>
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<tr>
<td>11:55 - 12:15</td>
<td><strong>13-2SY Sublingual Immunotherapy</strong></td>
</tr>
<tr>
<td>12:15 - 12:35</td>
<td><strong>13-3SY Subcutaneous Immunotherapy: When and How to Start</strong></td>
</tr>
<tr>
<td>12:35 – 13:00</td>
<td><strong>Discussion</strong></td>
</tr>
</tbody>
</table>

**SYMPOSIUM 14**

**Sunday, 9 December 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30 - 13:00</td>
<td><strong>DISEASE PREVENTION IN THE NEW MILLENNIUM: ALLERGY IN THE CONTEXT OF OTHER NON COMMUNICABLE DISEASES (NCDS)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Chairpersons:</strong> A.G. Ghoshal (India) Klaus Rabe (Germany) John Sinn (Australia)</td>
</tr>
<tr>
<td>11:30 - 11:35</td>
<td><strong>Welcoming Remarks</strong></td>
</tr>
<tr>
<td>11:35 - 11:55</td>
<td><strong>14-1SY The Central Role of the Immune System in the Global Burden NCDs</strong></td>
</tr>
<tr>
<td>11:55 - 12:15</td>
<td><strong>14-2SY Exploring Common Risk Factors in the Prevention of Allergy and Other NCDs</strong></td>
</tr>
<tr>
<td>12:15 - 12:35</td>
<td><strong>14-3SY Global Strategies to Combat the Allergic Disease Burden</strong></td>
</tr>
<tr>
<td>12:35 – 13:00</td>
<td><strong>Discussion</strong></td>
</tr>
</tbody>
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**Enhance your Learning Experience!** Use the number to the left-side of the talk title or abstract to view, download or print materials at the Handout Kiosks, located at the entrances of Halls 3 & 4. Example: 6-3PG or 2001
Scientific Program—Sunday, 9 December 2012

11:30 - 13:15  SYMPOSIUM 15  HALLS 5 & 6

SMALL AIRWAYS DISEASE
Chairpersons:  Manori Amarasekera (Sri Lanka)
               Mika Mäkelä (Finland)
               Virendra Singh (India)
11:30 - 11:35  Welcoming Remarks
11:35 - 11:55  15-1SY  Particle Deposition and Pharmacotherapy  |  Lanny J. Rosenwasser (United States)
11:55 - 12:15  15-2SY  Pathophysiology of the Small Airways  |  Rohit K. Katial (United States)
12:15 - 12:35  15-3SY  Respiratory Function in Small Airways and Asthma  |  Thomas B. Casale (United States)
12:35 - 12:55  15-4SY  Optimal Assessment of Asthma Control in Clinical Practice: Is there a Role for Biomarkers?  |  Stanley Fineman (United States)
12:55 - 13:15  Discussion

12:30 – 14:00  LUNCH BOX DISTRIBUTION  HALL 4
Delegates are asked to pick up lunch boxes in Hall 4 and bring boxes into Hall 3 for the Keynote Lectures or to G.01 for the General Practitioner Program. Please present your orange lunch ticket in order to receive your lunch box. Lunch tickets are provided in registration packets. For registered delegates only.

13:30 - 14:00  KEYNOTE LECTURE 5  HALL 3
PHARMACOGENETICS
Chairpersons:  Koichiro Asano (Japan)
13:30 - 13:35  Welcoming Remarks
13:35 - 14:00  5-1KN  Elliot Israel (United States)

14:00 - 14:30  KEYNOTE LECTURE 6  HALL 3
IMMUNOTHERAPY: TH17 CELLS AND IMMUNE RESPONSES
Chairperson:  Mübeccel Akdis (Switzerland)
14:00 - 14:05  Welcoming Remarks
14:05 - 14:30  6-1KN  Vijay Kuchroo (United States)

13:30 - 15:30  GENERAL PRACTITIONER PROGRAM 3  G.01
IMPROVING PATIENT’S ASTHMA CONTROL AND QUALITY OF LIFE
13:30 – 13:35  Welcoming Remarks
13:35 - 13:55  3-1GP  Compliance and Treatment Adherence  |  Michael Blaiss (United States)
13:55 - 14:15  3-2GP  Implementation of Guidelines and Assessing Asthma Control  |  Raja Dhar (India)
14:15 - 14:35  3-3GP  Differentiating Asthma from COPD  |  Vijai Kumar Ratnavelu (India)
14:35 - 14:55  3-4GP  How to Improve Treatment Adherence by Better Patient Education  |  Barnali Bhattacharya (India)
14:55 - 15:30  Discussion

14:30 – 15:00  COFFEE BREAK  HALL 4
Scientific Program—Sunday, 9 December 2012

15:00 - 16:45  SYMPOSIUM 16  HALL 3

**HIGHLIGHT ON IMMUNOTHERAPY 2**

**Chairperson:** João Tebyrica (Brazil)

15:00 - 15:05  Welcoming Remarks

15:05 - 15:25  16-1SY  Immunomodulators - Anti-IgE mAb | Thomas B. Casale (United States)

15:25 - 15:45  16-2SY  Immunotherapy in the Pediatric Population | Michael Blaiss (United States)

15:45 - 16:05  16-3SY  Subcutaneous Immunotherapy and Sublingual Immunotherapy in Asthmatics | Roy Gerth van Wijk (Netherlands)

16:05 - 16:25  16-4SY  Insect Immunotherapy | Richard Weber (United States)

Lecture supported by the American College of Allergy, Asthma and Immunology

16:25 - 16:45  Discussion

Video recording for this session sponsored by Novartis.

15:00 - 16:45  SYMPOSIUM 17  HALL 2

**MICROBIOME**

**Chairpersons:** Amir Hamzah Abdul Latiff (Malaysia)
Wayne Thomas (Australia)

15:00 - 15:05  Welcoming Remarks

15:05 - 15:25  17-1SY  Defining the Microbiome in the Healthy and Diseased Lung | Stephen T. Holgate (United Kingdom)

15:25 - 15:45  17-2SY  The Early Life Microbiome in the Emergence of Allergic Disease in Children | Christina West (Sweden)

15:45 - 16:05  17-3SY  Model Systems to Investigate Microbial Interactions in the Protection against Allergy | Harald Renz (Germany)

16:05 - 16:25  17-4SY  The Role of Staphylococci in the Emergence of Chronic Nasal and Lower Airways Disease | Claus Bachert (Belgium)

16:25 - 16:45  Discussion

15:00 - 16:45  SYMPOSIUM 18  HALLS 5 & 6

**CHRONIC RHINOSINUSITIS (CRS)**

**Chairpersons:** Ho Joo Yoon (Korea)
Luo Zhang (China)

15:00 - 15:05  Welcoming Remarks

15:05 - 15:25  18-1SY  Chronic Rhinosinusitis is Not One Disease: What You Should Know about Inflammation | Claus Bachert (Belgium)

15:25 - 15:45  18-2SY  Medical Therapy of CRS With and Without Nasal Polyps, From Evidence to Innovation | Peter Hellings (Belgium)

15:45 - 16:05  18-3SY  Surgical Therapy of CRS With and Without Nasal Polyps | Robert Naclerio (United States)

16:05 - 16:25  18-4SY  Difficult Cases of CRS | Achal Gulati (India)

16:25 - 16:45  Discussion

16:45 - 17:50  SYMPOSIUM 19  HALL 3

**HIGHLIGHT ON IMMUNOTHERAPY 3**

**Chairpersons:** Karnen Baratawidjaja (India)
Giovanni Passalacqua (Italy)

16:45 - 16:50  Welcoming Remarks

16:50 - 17:10  19-1SY  Identification of Eligible Patients for Immunotherapy | G. Walter Canonica (Italy)

17:10 - 17:30  19-2SY  Prevention | Hugo Van Bever (Singapore)

17:30 - 17:50  Discussion
World Allergy Training School

9 DECEMBER 2012 • 07:45 – 16:15

The main objective of the World Allergy Training School (WATS) is to develop learning communities, appropriate to a specific regional context, which will help build sustainable capacity in the field of allergy by strengthening already existing knowledge and skills and encouraging local experts to apply this knowledge to further develop the specialty of allergy and to widen the provision of patient care. Attendance at WATS is by invitation only

07:45 – 10:30 SESSION 1

07:45 - 08:00 Welcoming Remarks
08:05 - 08:30 Food Allergy: Pathophysiology, Diagnosis and Management | Susan Prescott (Australia)
08:30 - 09:00 Contact Dermatitis: Pathophysiology, Diagnosis and Management | Richard Weber (United States)
09:00 - 09:30 Drug Allergy: Pathophysiology, Diagnosis and Management | Mario Sánchez Borges (Venezuela)
09:30 - 10:00 Pediatric Asthmas: Diagnosis and Treatment | Michael Blaiss (United States)
10:00 - 10:30 Adult Asthma: Diagnosis and Treatment | Stephen T. Holgate (United Kingdom)

10:30 – 11:00 COFFEE BREAK

11:00 – 12:30 GENERAL PRACTITIONER PROGRAM 2

WATS participants are encouraged to participate in the General Practitioners Program 2

Spirometry and Inhalation Devices

11:00 - 11:05 Welcoming Remarks
11:05 - 11:25 2-1GP Spirometry | Monica Barne (India)
11:25 - 11:45 2-2GP Inhalation Devices | Michael Blaiss (United States)
11:45 - 12:05 2-3GP Inhalation Devices in India | K.S. Satish (India)
12:05 - 12:30 Discussion

12.30 – 13.00 LUNCH

WATS participants are asked to pick up their lunch box in Hall 4 and bring it to G.03 for Session 3 of the WATS Program.

13:00 – 14:30 SESSION 2

13:00 - 13:30 Anaphylaxis: Pathophysiology, Diagnosis and Management | Dana Wallace (United States)
13:30 - 14:00 Diagnostic Skin Testing & Subcutaneous Allergy Immunotherapy | Stanley Fineman (United States)
14:00 - 14:30 Atopic Dermatitis: Pathophysiology, Diagnosis and Management | Sandra González-Díaz (México)

14:30 – 15:00 COFFEE BREAK

15:00 – 16:15 WORKSHOP A

Anaphylaxis
Dana Wallace (United States)
Sandra Gonzalez-Diaz (Mexico)

15:00 – 16:15 WORKSHOP B

Prick and Intradermal Skin Testing
Stanley Fineman (United States)
Richard Weber (United States)

Workshops A & B will be run simultaneous. Participants will change sessions upon completion of respective workshop. Instructor will provide further instruction.

Enhance your Learning Experience! Use the number to the left-side of the talk title or abstract to view, download or print materials at the Handout Kiosks, located at the entrances of Halls 3 & 4. Example: 6-3PG or 2001
The Emerging Societies Program (ESP) is an outreach initiative to WAO’s Member Societies and to emerging societies in various regions to promote education in allergy and to assist societies in the promotion and development of the specialty of allergy and asthma. The initiative enables the ESP’s leadership to learn more about the challenges faced in countries where the specialty of allergy and asthma is either non-existent, or is developing, and how best to assist these efforts.

The main objective of the World Allergy Training School (WATS) is to develop learning communities, which will help build a sustainable capacity in the field of allergy by strengthening already existing knowledge and skills. WATS also strives to encourage local experts to apply this knowledge to further develop the specialty of allergy and to widen the provision of patient care. The World Allergy Training School is for physicians/general practitioner/researchers with a general background in allergy and immunology.

The WISC 2012-World Allergy Training School will be held on 9 December 2012
And change the way your patients live with severe allergic asthma

Xolair® Abridged Prescribing Information

Presentation: 150 mg Omalizumab Powder for injection. One vial of Xolair® contains 150 mg of omalizumab. Reconstituted Xolair® contains 175 mg/ml of omalizumab (150 mg in 2 ml). Omalizumab is a humanized monoclonal antibody administered by subcutaneous injection. Indications: Atrasys® (omalizumab) is indicated for adults with moderate to severe persistent allergic asthma whose symptoms are inadequately controlled with inhaled corticosteroids (ICS). Children (12 years of age and older) Xolair® is indicated as add-on therapy to inhaled corticosteroids and long acting beta agonist (LABA) in patients with severe persistent allergic asthma who have persistent exacerbations despite inhaled corticosteroids and long acting beta agonists. The Xolair® treatment regimen should be considered in patients who have had at least four exacerbations despite optimal management with ICS and LABA. The recommended dose is 150 mg every 4 weeks. In children aged 12 years and older, the recommended dose is 150 mg every 4 weeks. The recommended dose for children aged 6 years to 12 years is 200 mg every 4 weeks. The safety and efficacy of Xolair® in children aged 6 years to 11 years has been evaluated in a randomized, double-blind placebo-controlled trial of 26 weeks. Children aged 12 years and older have been included in all clinical trials of Xolair®. The efficacy of Xolair® in children aged 6 years to 11 years has not been established. Adverse Reactions: There are no reports of serious, life-threatening reactions associated with the use of Xolair®. The most common adverse reactions associated with the use of Xolair® are injection site reactions, infections, and upper respiratory tract infections. Infection is a common adverse reaction associated with the use of Xolair®. The most common adverse reaction associated with the use of Xolair® is injection site reactions. Infection is a common adverse reaction associated with the use of Xolair®. The most common adverse reaction associated with the use of Xolair® is injection site reactions.

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WAO News & Notes Monthly
Electronic Newsletters
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WAO Junior Members Group

www.worldallergy.org
Outstanding Abstract Awardees Are:

Ulus Atasoy, United States
Swati Behera, India
Woo-Sung Chang, Korea
Yoon-Seok Chang, Korea
Mulin Feng, China
Brenda Gerwing, Canada
Chhavi Goel, India
Rodneck Peter Hafner, United Kingdom
Sun Moon Hong, Korea
Claudia Ivonne Gallego, Mexico
Anderson Jones, Australia
Soo Whan Kim, Korea
Narasaih Kolliputi, United States
Heung Man Lee, Korea
Michael Levin, South Africa
Purevsuren Losol, Korea
David Martino, Australia
Jessica Metcalf, Australia
Sachiko Mori, Japan
Mizuho Nagao, Japan
Veeresh Patil, United Kingdom
Wendy Gonzalez Ramirez, Cuba
Razi Re fees, United States
Elena Rubio, Spain
Chang Sun Sim, Korea
Hideaki Shirasaki, Japan
Neetu Talreja, United States
Morimitsu Tomikawa, Japan
Arzu Didem Yalcin, Turkey
Posters

POSTER SESSIONS

All accepted abstracts will be presented as posters in Poster Sessions on 6, 7, and 8 December in the Exhibit Hall (Hall 4). Each Poster Session will focus on posters on 5-7 topic categories. Chairpersons are assigned to each category and will stimulate discussion between the audience and Presenting Authors. Presenting Authors will stand next to their posters, answer questions and discuss their research.

To view, download or print a full abstract, please use the Handout Kiosks, which are located outside Halls 3 and 4 in the HICC. To find a specific abstract, you can search by the abstract number (displayed on the left side of the abstract title), by author name, abstract title, session or topic.

Poster Set: Please be sure to set-up posters on the appropriate poster boards on Friday, 7 December between 09:00 – 16:00. Posters will remain on display throughout the Conference, and must be dismantled between 12:00 – 17:00 on Sunday, 9 December. Posters not dismantled by 17:30 on Sunday, 9 December will be discarded.

The abstract number, which is listed to the left of the abstract title in this Final Program, will also refer to the poster board number in the Exhibit Hall (Hall 4).

OUTSTANDING ABSTRACT AWARDS

Abstracts that scored highly in the review process will be awarded with WISC 2012 Outstanding Abstract Awards. Awards will be given at the following time:

Sunday, 9 December  09:30 – 10:00  HICC, Hall 3

Abstracts that will be receiving awards are noted with this symbol: 🏆

Travel Grant Awardees are noted with this symbol: 🌍

All posters will remain on display throughout the conference.

Friday, 7 December 2012

16:30 - 17:30  WAO JUNIOR MEMBER RECEPTION & POSTER SESSION 1  HALL 4

POSTER SESSION 1-1: ASTHMA DIAGNOSIS AND TREATMENT 1

Chairpersons:  Carlos E. Baena-Cagnani (Argentina)
                Raja Dhar (India)

1001  Identification of Prevalent Sensitizing Allergens in India  Shubnum Singh (India)

1002  FEF25-75%: A More Sensitive Indicator in the Early Detection of Asthma  Marzieh Tavakol (Iran), Mohammad Gharaagolouz (Iran), Mohsen Afaride (Iran), Masoud Movahedi (Iran) and Zahra Tavakol (Iran)

1003  Severe Asthma: A Comparision of Clinical Severity and Lung Function  Raja Dhar (India) and AG Ghoshal (India)

1004  The Utility of Mannitol Challenge in the Assessment of Asthma  Dario Antolin-Amerigo (Spain), Maria Jose Sanchez-Gonzalez (Spain), Mercedes Rodriguez-Rodriguez (Spain), Jose Barbarroja-Escudero (Spain) and Melchor Alvarez-Mon (Spain)

1005  Optimization for the Withdrawal of Inhaled Corticosteroid Treatment by Monitoring Fractional Exhaled Nitric Oxide (FeNO) and Lung Functions  Morimitsu Tomikawa (Japan), Kiyotake Ogura, Katsuhito Ikura, Noriyuki Yanagida (Japan), Sakura Sato (Japan), Takatsugu Komata (Japan), Akinori Shukuya (Japan), Yumi Koike (Japan) and Motohiro Ebisawa (Japan)

1006  Perillae Semen Abolished Allergic Asthmatic Response in Murine Model  Mi-Kyeong Kim (Korea), Tae Young Yoon (Korea) and Byungkwan Choi (Korea)

1007  Clinical Application of Forced Oscillation Technique for Children with Asthma  Keigo Kainuma (Japan), Mizuho Nagao (Japan), Mayumi Sugimoto (Japan) and Takao Fujisawa (Japan)

1008  Is Small Airways Disease A Widely Prevalent Yet Underdiagnosed Phenotype of Asthma and COPD in India?  Sandeep Tandon (India), Arvind Khutarkar (India) and Shabina Ansari (India)

1009  A Clinical Study of NE–C900 (OMRON) Nebulizer  T U Sukumaran (India) and Ruby Pawankar (Japan)

1010  Lung Function Tests in Exercise-Induced Asthma Among a Pediatric Population  Silvia Sanchez Garcia (Spain), Pablo Rodriguez Del Rio (Spain), Carmelo Escudero (Spain) and M.Dolores Ibañez (Spain)
Posters

1011 Ozac - A Herbal Medicine for Bronchial Asthma | Hari Kishan Gonuguntla (India), Prabhakar Rao Parankusam (India) and Bhanu Naik Bhukya (India)

1012 The Efficacy of Budesonide in the Treatment of Acute Asthma in Children: A Double-Blind, Randomized, Controlled Trial | Abdullah A. Alangari (Saudi Arabia), Nidal Malhis (Saudi Arabia), Mohamed Mubasher (Saudi Arabia), Najwa Al-Ghamdi (Saudi Arabia), Mohammed Al-Tannir (Saudi Arabia), Mohammed Riaz (Saudi Arabia), Dale Utetsu (United States) and Saleh Al-Tamimi (Saudi Arabia)

1013 Six Months Follow up of Pediatric Patients With Severe Persistent Allergic Asthma After One Year Omalizumab Therapy | Tarun Choudhuri (India)

1014 Single Center Experience of 4 Cases of Diffuse Panbronchiolitis Clinically Presented as Treatment Resistant Asthma | Kyung Hee Park (Korea), Jae-Hyun Lee (Korea), Chein-Soou Hong (Korea) and Jung-Won Park (Korea)

1015 Improvements in Lung Function in an Indian Population with IgE Mediated Asthma Receiving Omalizumab in a Real-World Setting | Randeep Guleria (India), Deepak Talwar (India), AA Mahashur (India) and Mangala Kotnis (India)

POSTER SESSION 1-2: ASTHMA DIAGNOSIS AND TREATMENT 2
Chairpersons: Saleh Al Muhsen (Saudi Arabia)

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1017 Prevalence and Determinants of Allergy and Asthma Amongst Indian Children | Sheetu Singh (India) and Virendra Singh (India)

1018 Effect of Inhaled Corticosteroids with Long-Acting Beta2 Agonists Vs. Inhaled Corticosteroid Alone On Asthma Control in Children: Results From National Asthma Survey | Richard F. Lockey (United States), Neetu Talreja (United States) and Dennis K. Ledford (United States)

1019 Churg Strauss Syndrome - Missed Diagnosis and Consequences | Mohamed Cassim Kamdar (South Africa)

1021 Prevalence of Wheezing and Risk Factor of Asthma in Preschool Children, South Korea | Sung-II Woo (Korea)

1022 The Differences of Clinical Profiles by House Dust Mite Sensitization in Patients with Asthmatics in Soochunhyang University Hospital Cohort | An-Soo Jang (Korea), Jong-Sook Park (Korea), Sung-Woo Park (Korea), June-Hyuk Lee (Korea), Dojin Kim (Korea) and Choon-Sik Park (Korea)

1023 The Implementation of Asthma Management Guideline and the Obstacle Factors in Korea | Eun-Jung Jo (Korea), Mi Yeong Kim (Korea), Suh Young Lee (Korea), Seoung-Eun Lee (Korea), Woo-Jung Song (Korea), Sae-Hoon Kim (Korea), Sang-Heon Cho (Korea), Kyung-up Min (Korea), You-Young Kim (Korea) and Yoon-Seok Chang (Korea)

1024 Prevalence of Depression Among Asthma Patients & Effects of Asthma Control On Severity of Depression | Swapnendu Mishra (India), Susmita Kundu (India), AG Ghoshal (India) and Debabrata Majumdar (India)

1025 Prevalence of Childhood Asthma in Small City of Iran: An ISAAC Study | Shaghayegh Sadat Noorani, Hassan Kiadeh (Iran), Mohammad Fereidouni (Iran) and Amir Hossein Khozeime (Iran)

1026 Long Term Twice Weekly Dose of Methotrexate in Steroid Dependent Chronic Allergic Diseases | Suman Kumar (India)

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1028 A Rare Case of Bronchial Asthma and Allergic Rhinitis with Complete Right Lung Agenesis Investigated in Tertiary Case Hospital | RAM Awadh Singh Kushwaha (India), Rajiv Garg (India), TG Rangnath (India), Rajendra Prasad (India) and Surya Kant (India)

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1030 Role of Fungi (Molds) in Allergic Airway Disease – an Analysis in a South Indian Otolaryngology Center | Vattikonda Sathavahana Chowdary (India)
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**Chairpersons:** Roy Gerth van Wijk (Netherlands), Elham Hossny (Egypt)

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**Chairpersons:** S.K. Chhabra (India), Gennaro D’Amato (Italy)

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**Chairpersons:** Fernan Caballero - Fonseca (Venezuela) and S.K. Jindal (India)

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**POSTER SESSION 1-7: MECHANISMS OF ASTHMA AND ALLERGIC DISEASE 2**

Chairpersons: Carla Irani (Lebanon) and John Sinn (Australia)

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Please join us!

Sunday, 9 December
Hall 5 and 6 (HICC)
11:00 - 13:00

Symposium 15: Small Airways Disease

Chairpersons:
Manori Amaraskera (Sri Lanka)
Mika Mäkelä (Finland)
Virendra Singh (India)

Particle Deposition and Pharmacotherapy
Lanny Rosenwasser (United States)

Pathophysiology of Small Airways
Rohit K. Katial (United States)

Respiratory Function of Small Airways and Asthma
Thomas B. Casale (United States)

Optimal Assessment of Asthma Control in Clinical Practice: Is there a Role for Biomarkers?
Stanley Fineman (United States)

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Posters
Saturday, 8 December 2012

13:00 - 14:00  POSTER SESSION 2  HALL 4

POSTER SESSION 2-1: ALLERGIC DISEASES OF THE SKIN AND DRUG ALLERGIES 1

Chairpersons:  
Anne Goh (Singapore)  
Bee Wah Lee (Singapore)

2001  
Amdosol – a Non-Steroid Drug for the Treatment of Chronic Atopic-Dermatitis | Vishwanath Kundur (India) and Mam Jamakhandi (India)

2002  
Association of Food and Drug Allergy with Anti-Tuberculosis Drug Related Hepatitis or Skin Reactions | Anoma Siribaddana (Sri Lanka), Asanga Upul (Sri Lanka), Kokila Kodithuwakk (Sri Lanka), Gayani Pathirana (Sri Lanka) and Dinesh Dassanayaka (Sri Lanka)

2003  
Augmented Telomerase Activity and Reduced Telomere Length as a Disease Marker in Parthenium Induced Contact Dermatitis Patients | Alpana Sharma (India), Nasim Akhtar (India), Vivek Anand (India) and Kaushal K Verma (India)

2004  
Clinical and Immunologic Characteristics of Allergen-Specific Immunotherapy in Children with Atopic Dermatitis | Tatiana Slavyanskaya (Russia) and Vladislava Derkach (Russia)

2005  
Common Causes of Allergic Contact Dermatitis in Kuwait | Mona Al-Ahmad (Kuwait), Neeru Arifohdzie (Kuwait) and Naser Fakim (Kuwait)

2006  
Cord Blood 25-Hydroxyvitamin D3 and Allergic Disease During Infancy | Andrew Phillip Jones (Australia), Debra Palmer (Australia), Guicheng Zhang (Australia) and Susan Prescott (Australia)

2007  
Diclofenac Induced Leucopenia in 48-Year-Old Male Patient | Vesna Radovic (Serbia)

2008  
Gabriglobin Use in Treatment of Chronic Autoimmune Urticaria | Vladimir Aleshkin (Russia), Boris Molotilov (Russia) and Ekaterina Orlova (Russia)

2009  
Gentamicin Induced Instability While Walking and Headache in 52–Year Male Patient | Vesna Radovic (Serbia)

2010  
Intradermal Skin Testing with Cefazolin Regardless of the History of Hypersensitivity to Antibiotics | In Sung Lee (Korea), Yoon-Jung Kim (Korea), Sae-Hoon Kim (Korea), Sang-Heon Cho (Korea), Kyung-up Min (Korea) and Yoon-Seok Chang (Korea)

2011  
Is the Impact of Atopic Conditions On Children and Adolescents’ Health Related Quality of Life Modified by Mental Health? Results From A Population-Based Cross-Sectional Study | Uwe Muttere (Germany), Jochen Schmitt (Germany), T L Diepgen (Germany) and C J Apfelbacher (Germany)

2012  
Is There Association Between Duration of Seasonal Allergic Rhinitis and Oral Allergy Syndrome? | Reza Fardhosseini (Iran), Farahezad Jabbari (Iran), Afshin Shirkh (Iran), Mohammad Reza Zandkarimi (Iran) and Hadi Yousefzadeh (Iran)

2013  
Longitudinal Analysis of Fecal Microbiota of Infants Followed-up for Eczema till 2 Years of Age | Gaik Chin Yap (Singapore), Christophe Lay (Singapore), Marion Aw (Singapore), Lynette, Pei Shi Shek (Singapore), Yudong Zhao (Singapore), Doreen Leow (Singapore) and Bee Wah Lee (Singapore)

2014  
Predictive Value of Clinical History in Suspicion of Quinolones Hypersensitivity | Luciana Kase Tanno (France), ANCA M Chiriac (France), Pascal Demoly (France) and Luciana Kase Tanno (France)

2015  
Randomized Controlled, Double Blind Trial of Topical Twice Weekly Fluticasone Propionate Maintenance Treatment to Reduced Risk of Relapse in Mild or Moderate Atopic Dermatitis in Children | Elena Rubio (Spain), Inocencia Martinez-Mir (Spain), Francisco J Morales-Olivas (Spain), Antonio Martorell-Aragonés (Spain), Vicente Palop Larrea (Spain), Alejandro Berralte Sesé (Spain), Juan C Cerdá Mir (Spain), Pedro Polo Martín (Spain), Isabel Febrer (Spain), Laura Aranda Grau (Spain), Immaculada Lloso Cortes (Spain), Maria José Tejedor Sanz (Spain), Juan C Juliá Benito (Spain), Teresa Alvarez De Laviada (Spain), Maria Victoria Pleanelles Santoro (Spain), Esther Apolinar Valiente (Spain), Mercedes Llorient Tur (Spain), Antonio M Abella Bazataqui (Spain), Irene Alvare Gonzales (Spain), Cristina Morales-Carpi (Spain), Maria Enriqueta Burches Greu (Spain), Ana B Ferrer Bautista (Spain), Ruil Felix Toleda (Spain), Dolores Marmeneu Lagoiu (Spain), Victoria E Garcia-Martinez (Spain), Maria Antonia Beltran Marques (Spain), Maria Begoña Rodriguez Graci (Spain) and Inocencia Martinez-Mir (Spain)

2016  
Ranitidine Treatment in Preterm Infants and the Prevalence of Atopy at Two Years of Age | Than Soe (United Kingdom), Lucy Bemand-Qureshi (United Kingdom), Sadaf Chaudhry (United Kingdom) and Vijay Chakravarti (United Kingdom)

2017  
Rapid Desensitization for Delayed Reactions to Chemotherapy and Monoclonal Antibodies | Maria Aranzazu Vega Castro (Spain), Ana Maria Alonso (Spain), Juan Maria Beitra (Spain), Maria Belén Mateo (Spain) and Remedios Cardenas (Spain)

2018  
Risk Factors for Hypoproteinemia in Infantile Atopic Dermatitis | Geunhwa Park (Korea)
Posters

POSTER SESSION 2-2: ALLERGIC DISEASES OF THE SKIN AND DRUG ALLERGIES 2

Chairpersons: Hiok Hee Chng (Singapore)
               Connie Katelaris (Australia)

2019 Higher Doses for Heavy Hives | Kiran Godse (India)

2020 The Association Between DRESS and the Diminished Numbers of Peripheral B Lymphocytes and Natural Killer Cells | Mehtap Yazicioglu (Turkey), Reyhan Elmas (Turkey), Burhan Turgut (Turkey) and Tugba Gencchellac (Turkey)

2021 Efficacy of Montelukast as Add-On Therapy in Patients with Chronic Idiopathic Urticaria | Sujoy Khan (United Kingdom), Nuala Lynch (United Kingdom) and Sujoy Khan (United Kingdom)

2022 Consensus Statement On Management of Urticaria in India | Kiran Godse (India)

2023 Sulfamethoxazole / Trimethoprim Induced Leukocyte Count Decreased in 79–Old-Year Female Patient | Vesna Radovic (Serbia)

2024 Autoserum Therapy in Autologous Serum Skin Test Positive Patients of Chronic Spontaneous Urticaria | Nidhi Sharma (India)

2025 Decrease Circulating CD4+CD25+ Foxt3 T Cells in Patients with Chronic Autoimmune and Chronic Idiopathic Urticaria | Delara Babaie (Iran), Saba Arshi (Iran), Mohammad Nabavi (Iran), Babak Ghalehbaghi (Iran), Majid Tebyanian (Iran), Farhad Jalali (Iran), Nadiel Akbarpour (Iran) and Reza Gholami (Iran)

2026 Immunologic Evaluation of the Patients with Cefaclor Hypersensitivity | Hye-Soo Yoo (Korea), Seung-Hyun Kim (Korea), Hyouk-Soo Kwon (Korea), Tae-Bum Kim (Korea), Young-Hee Nam (Korea), Mi-Ae Kim (Korea), Young Min Ye (Korea) and Hae-Sim Park (Korea)

2027 Successful Treatment with Intravenous Immunoglobulin and Prednisolone Pulse Therapy of Toxic Epidermal Necrolysis and Stevens-Johnson Syndrome | Arzu Didem Yalcin (Turkey), Atil Bisgin (Sweden), Gokalp Soykam (Turkey), Cem Sezer (Turkey) and Ayse Akman (Turkey)

2028 Vitamin D Insufficiency in DRESS Syndrome | Young-Hee Nam (Korea), Il-Hwan Jeong (Korea), Hye-Won Lee (Korea), Neul-Bom Yoon (Korea), Soo-Jung Um (Korea), Choon-Hee Son (Korea) and Soo-Keol Lee (Korea)

2029 Prevalence and Factors of Food Allergy Among School-Age Children in Southern China | Mo Xian (China) and Jing Li (China)

2030 Validation of Cephalosporin Skin Test for Predicting Immediate Hypersensitivity: Interim Analysis | Sun-Young Yoon (Korea), So Young Park (Korea), Sujeong Kim (Korea), Hyouk-Soo Kwon (Korea), Yun-Jeong Bae (Korea), Jaehyung Roh (Korea), You Sook Cho (Korea), Tae-Bum Kim (Korea) and Hee-Bom Moon (Korea)

2031 Effectiveness of Autologous Serum Therapy in Patients of Chronic Urticaria: A Randomised, Single-Blind, Controlled Trial | Panchami Debbarman (India)

2032 Epidemiological Study of a Specific Unit of Drugs Allergy Diagnosis. 20 Years Experience | Enrique Marti (Spain) and Enrique Scorza (Spain)

2033 Metronidazole Skin Testing Associated with Systemic Reaction | Chwee Ying Tang (Singapore), Teck Choon Tan (Singapore) and Hiok Hee Chng (Singapore)

2035 Allergen Control in Management of Chronic Urticaria/Angioedema (CUA) in Kenya, East Africa | Tula Bowry (Kenya) and Priya Sikand (Kenya)

2036 Exanthematous Drug Eruption to Prasugrel: A Case Report | Praveen Buddiga (United States), Muhammad Hassan Bashir (United States) and Malik Baz (United States)

POSTER SESSION 2-3: FOOD ALLERGY AND ANAPHYLAXIS 1

Chairpersons: Suleiman Al-Hammadi (United Arab Emirates)
               Alessandro Fiocchi (Italy)

2037 Emergency Department Management of Insect-Sting Allergic Reactions in a Community Hospital in the United States | M. Razi Rafeeq (United States) and Manoj Dhariwal (United States)

2038 Insect and Sting Allergy | Syed Arham Husain Syed Arham (India)

2039 Bioinformatics Evaluation of New Proteins in Genetically Engineered Organisms and Novel Foods for Potential Risks of Food Allergy and Celiac Elicitation | Richard Goodman (United States), Plaimein Amnuaycheewa (United States), John Wise (United States) and Steve L. Taylor (United States)

2040 Nutritional Status and Dietary Intake in Children with Cow’s Milk Allergy | Maria Golebiowska Wawrzyniak (Poland), Grazyna Rowicka (Poland), Malgorzata Strucinska (Poland) and Katarzyna Markiewicz (Poland)

2041 Rush Oral Immunotherapy for Severe Food Allergy: One Year Follow Up | Mayumi Sugimoto (Japan), Mizuho Nagao (Japan), Mari Kondo (Japan), Keigo Kainuma (Japan) and Takao Fujisawa (Japan)

2042 High Rates of Egg Reactivity in Infants with Eczema Randomised to Receive Egg Under 6 Months of Age | Jessica Metcalfe (Australia), Debra Palmer (Australia) and Susan Prescott (Australia)
Posters

2043 | Poor Dilutional Linearity of Food Allergen Specific IgE Measurement by ImmunoCAP in Samples with High Total IgE | Maaz Mohiuddin (United States), Michael O’sullivan (Australia, US), Patricia Merkel (United States), Cynthia Ridge (United States), Donald Leung (United States) and Vijaya Nagabhushanam (United States)

2044 | Component Resolved Allergen Sensitization Profiles in Shrimp Allergy in the Tropics | Ireneus Paul Chia (Singapore), Gaik Chin Yap (Singapore), Bee Wah Lee (Singapore), Hugo Van Bever (Singapore), Lynette, Pei Shi Shek (Singapore), Irvin Francis A. Gerez (Singapore), Genevieve Llanora (Singapore), Yew Kwang Cheng (Singapore), Bernard TSU (Singapore), M. A. Curott De Lafaille (Singapore) and Chwee Ying Tang (Singapore)

2045 | Highly Elevated IgE Antibodies to Vaccine Components in Influenza Vaccine-Associated Anaphylaxis in Japan | Mizuho Nagao (Japan), Takao Fujisawa (Japan) and Toshiaki Ihara (Japan)

2046 | Cloning and Characterization of the Gene for Acidic Thaumatin-Like Protein, an Important Allergen From Sapodilla Plum (Manilkara zapota) | YP Venkatesh (India), HG Ashok Kumar (India), VL Hegde (India) and SM Shetty (India)

2047 | Anaphylaxis to Topically Applied Sodium Fusidate on Abrasions | Kangmo AHN (Korea)

2048 | Role of Vitamin D Deficiency in Allergic Gastrointestinal Disorders in Children Admitted to a Kenyan Urban Hospital | Rose Kamenwa (Kenya), Samuel Akech (Kenya) and Peter Mburu (Kenya)

2049 | Evolution of Food Allergy in a High Risk Population: The Canadian Asthma Primary Prevention Study (CAPPS) | Rishma Chooni (Canada), Brenda Gerwing (Canada), Saiful Hug (Canada), Clare Ramsey (Canada), Anita Kozyrskyj (Canada), Edmond Chan (Canada), Moira Chan-Yeung (Canada) and Allan Becker (Canada)

2050 | Economic Burden of Anaphylaxis in the United States | Ray Wolf (United States), David Alexander Sclar (United States) and Mary-Ellen Marx (United States)

POSTER SESSION 2-4: FOOD ALLERGY AND ANAPHYLAXIS 2

Chairpersons: Jo Douglass (Australia)
Fares Zaitoun (Lebanon)

2052 | Vitamin D Insufficiency Is Associated with Challenge-Proven Food Allergy in Infants | Katie Allen (Australia), Jennifer Koplin (Australia), Anne-Louise Ponsonby (Australia), Lyle Gurrin (Australia), Melissa Wake (Australia), Peter Vuillermin (Australia), Shyamali Dharmage (Australia) and For the Healthnuts Study (Australia)

2053 | New Diagnostic Algorithms That Will Reduce the Need for Oral Food Challenges | Rachel Peters (Australia), Lyle Gurrin (Australia), Shyamali Dharmage (Australia), Mimi Tang (Australia), Jennifer Koplin (Australia), Margaret Danchin (Australia), Harriet Hancox (Australia) and Katie Allen (Australia)

2054 | Easy-to-use Severity Grading System for Treatment of Symptoms Induced by Oral Food Challenge | Noriyuki Yanagida (Japan), Yuu Okada (Japan), Hasegawa Yukiko (Japan), Taro Miura (Japan), Ishida Wako (Japan), Yumi Koike (Japan), Kiyotake Ogura (Japan), Katsuhito Ikura (Japan), Sakura Sato (Japan), Takatsugu Komata (Japan), Takenori Imai (Japan), Morimitsu Tomikawa (Japan), Akinori Shukuya (Japan) and Motohiro Ebisawa (Japan)

2055 | Slow Specific Oral Tolerance Induction in Children with Hen’s Egg Allergy: 3-Days On/4-Days off Schedule | Kentaro Mikami (Japan), Norifumi Ogawa (Japan), Norifumi Ogawa (Japan), Sho Mimura (Japan), Akihiro Oshiba (Japan) and Takeshi Noma (Japan)

2056 | Clinical Cross-Reactivity of Major Food Allergens Among Children | Miho Hasegawa (Japan), Takatsugu Komata (Japan), Kiyotake Ogura (Japan), Katsuhito Ikura (Japan), Sakurako Sato (Japan), Morimitsu Tomikawa (Japan), Akinoi Shukuya and Motohiro Ebisawa (Japan)

2057 | Protecting Food Allergic Consumers and Celiac Patients in India Requires Improvements in Diagnostic Accuracy, Patient Education, Food Handling and Labeling Practices | Richard Goodman (United States), Ashok Gupta (India), Padukudru A. Mahesh (India), Anand B Singh (India), Nagesh Komarla (India), Ronald Van Ree (Netherlands), E N Clare Mills (United Kingdom) and Steve L. Taylor (United States)

2058 | Elucidation of a 31 kDa Cross-Reactive Kidney Bean (Phaseolus vulgaris) Allergen | Komarla Nageshara (India), Ramkrashan Kasera (India), Shakuntala Lavasa (India), Anand B Singh (India), Komarla Nageshara (India) and Naveen Arora (India)

2059 | Mild Symptoms Induced by Oral Food Challenge are Not Always Associated with Failed Challenge Results | Taro Miura (Japan), Noriyuki Yanagida (Japan), Sakurako Sato (Japan), Yumi Koike (Japan), Kiyotake Ogura (Japan), Katsuhito Ikura (Japan), Takatsugu Komata (Japan), Akinori Shukuya (Japan), Takenori Imai (Japan), Motohiro Ebisawa (Japan) and Morimitsu Tomikawa (Japan)

2060 | Oral Food Challenges Still the Most Reliable Test for a Diagnosis of Food Allergy | Meera Thalayasingam (Singapore), Michelle Meiling Tan (Singapore), Cesar Brence Labastida (Singapore) and Lynette, Pei Shi Shek (Singapore)
Posters

2061  Clinical Symptoms and Molecular Characterization of Hazelnut Allergy in Italian Children | Marco Albarini (Italy), Alessandro Fiocchi (Italy), Lamia Dahdah (Italy), Gianni Melioli (Italy), Oscar Mazzina (Italy), Fabrizio Veglia (Italy) and Antonella Marielli (Italy)

2062  ‘Allergic Gastroenteropathy’ in UK Children | Kirn Sandhu (United Kingdom), Karen Adams (United Kingdom), Than Soe (United Kingdom), Janice McCreddie (United Kingdom) and Vijay Chakravarti (United Kingdom)

2063  Identification of Foods Causing Hypersensitivity Allergy Among School Children in Two Sub-Urban Schools in Colombo District, Sri Lanka | Y. Sarangee G. Wimalasiri (Sri Lanka), R. M. Udayangani Ratnayake (Sri Lanka), T.D.N. Karunaratne (Sri Lanka) and K.K.D.S. Ranaweera (Sri Lanka)

2064  Oral Food Challenges Still the Most Reliable Test for a Diagnosis of Food Allergy | Meera Thalayasingam (Singapore), Michelle Meiling Tan (Singapore), Cesar Brence Labastida (Singapore) and Lynette, Pei Shi Shek (Singapore)

2065  Food-Dependent Exercise-Induced Anaphylaxis in a Patient with Sensitization to Pork | Hyun Hee Lee (Korea), Kyung Eun Lee (Korea) and Kyu-Earn Kim (Korea)

POSTER SESSION 2-5: IMMUNOTHERAPY 1
Chairpersons: Pendakur Anand (India)
Nelson Rosario-Filho (Brazil)

2066  A Study On Skin Prick Test Patterns of Atopic Patients Managed in a Tertiary Care Setting of Sri Lanka | Anoma Siribaddana (Sri Lanka), Fariha Sitheeque (Sri Lanka), Sonali Surangi (Sri Lanka), Srinath Illeperuma (Sri Lanka) and Dinesh Dassanayaka (Sri Lanka)

2067  Fel d 1 Peptide Antigen Desensitisation Safety and Efficacy in A Double-Blind, Placebo-Controlled Environmental Exposure Chamber Study | Roderick Peter Hafner (United Kingdom), Piyush Patel (Canada), Annemarie Salapatek (Canada), Paul Laidler (United Kingdom), Mark Larché (Canada) and Deepen Patel (Canada)

2068  Immunomodulatory and Safety Profile of a Novel Anti-Allergic Vaccine Based On Allergens From Dermatophagoides Siboney and a Combination Adjuvant, in Sensitized Mice | Wendy Ramírez González (Cuba)

2069  Multi-Center Study On the Performance Characterization of Two Skin Test Devices - Comforten® and Multi-Test II® | Rohit K. Katial (United States), Linda Cox (United States) and Derek Constable (United States)

2070  S.L.I.T. RUSH Immunotherapy - Faster REACH to Maintenance Pleatu-India | Naren Pandey (India), Kaushik Chakraborty (India), Ramendra Nath Mitra (India), Ashim Kumar Sarkar (India) and Anirban Neogi (India)

2071  Strail Levels Decreased After Allergen- Subcutaneous Spesific Immunotherapy | Arzu Didem Yalcin (Turkey), Gizem Genc (Turkey), Saadet Gumuslu (Turkey) and Arzu Didem Yalcin (Turkey)

2072  Therapeutic Effect and Higher Safety Profile for Allergic Asthma in Cuban Patients with Sublingual Immunotherapy Using Tropical Domestic Mite Allergen Vaccines | Raúl Lázaro Castro Almarales (Cuba), Mirta Alvarez Castello (Cuba), Mercedes Ronquillo Díaz (Cuba), Mayda González León (Cuba), Alexis Labrada Rosado (Cuba), José Severino Rodríguez Canosa (Cuba), Bárbara Ivonne Navarro Viltres (Cuba), Yunia Oliva (Cuba) and Maytee Mateo Morejón (Cuba)

2073  Therapeutic Effect of Mite Allergen Vaccines by Subcutaneous Route in Allergic Cuban Asthmatic Patients | Raúl Lázaro Castro Almarales (Cuba), Mirta Alvarez Castello (Cuba), Mercedes Ronquillo Díaz (Cuba), Mayda González León (Cuba), Alexis Labrada Rosado (Cuba), José Severino Rodríguez Canosa (Cuba), Maytee Mateo Morejón (Cuba), Yunia Oliva (Cuba) and Bárbara Ivonne Navarro Viltres (Cuba)

2074  Tolerability of Sublingual Immunotherapy with Tropical Mite Allergen Vaccines Using Different Dosing Schedules in Asthmatic Children | Raúl Lázaro Castro Almarales (Cuba), Mirta Alvarez Castello (Cuba), José Severino Rodríguez Canosa (Cuba), Mercedes Ronquillo Díaz (Cuba), Mayda González León (Cuba), Mary Carmen Reyes Zamora (Cuba) and Maytee Mateo Morejón (Cuba)

2075  Towards A Pan Anti-Allergy Vaccine | Sari Sabban (United Kingdom)

POSTER SESSION 2-6: IMMUNOTHERAPY 2
Chairpersons: Ignacio J. Ansotegui (Spain)
Thomas B. Casale (United States)

2076  A Controlled Study of Delta Inulin-Adjuvanted Honey Bee Venom Immunotherapy | Robert Heddle (Australia), Paul Russo (Australia), Nikolai Petrovsky (Australia), Rory Hanna (Australia) and Anthony Smith (Australia)

2077  Allergen Specific Immunotherapy in Allergic Conjunctivitis Due to Dust Mite | Sanjay Pawar (India) and Sanjay Pawar (India)
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**POSTER SESSION 2-7: RHINITIS, SINUSITIS AND OCULAR DISEASE**

Chairpersons: Claudia Ivonne Gallego (México)

| 2085 | Prevalence of Allergic Rhinitis in Urban School Children, Jaipur City, India | Abhishek Saini (India), Mukesh Gupta (India), Bhagwan Sahai Sharma (India), Munish Kakkar (India), Gaurav Chaturvedy (India) and Mukesh Gupta (India) |
| 2086 | Nox4 Mediates Hypoxia-Stimulated Myofibroblast Differentiation in Nasal Polyp-Derived Fibroblasts | Heung-Man Lee (Korea), Sung Moon Hong (Korea) and Jung-Sun Cho (Korea) |
| 2087 | Usefulness of Impulse Oscillometry and Fractional Exhaled Nitric Oxide in Children with Eosinophilic Bronchitis | Yoon Hee Kim (Korea), Kyung Won Kim (Korea), Myung Hyun Sohn (Korea) and Kyu-Earn Kim (Korea) |
| 2088 | Evaluation of Blood Markers for Determination of Atopy in Indian Patients with Symptoms of Respiratory Allergy | Vattikonda Sathavahana Chowdary (India) |
| 2089 | Evaluating the Quality and Contents of Paranasilus Sinusitis-Related Information on the Web-Sites in Western Physician and Eastern Physician | Yong-Dae Kim (Korea), Si-Youn Song (Korea), Chang Hoon Bae (Korea) and Heung-Man Lee (Korea) |
| 2090 | Allergy-the Natural Immunotherapy | Syed Arham Husain Syed Arham (India) |
| 2091 | The MSYPQ: Repeatability and Applicability to Rhinitis/Rhinosinusitis | Amtul Salam Sami (United Kingdom), Glenis Scadding (United Kingdom), Masood Malik (Pakistan) and Mohammed Amjad (Pakistan) |
| 2092 | The Msnot-20 Questionnaire: Repeatability and Disease Analysis of Rhinitis/Rhinosinusitis | Amtul Salam Sami (United Kingdom), Masood Malik (Pakistan), Mohammed Amjad (Pakistan) and Peter Howarth (United Kingdom) |
| 2093 | Effect of Intranasal Steroid On Cough Symptom in Patients with Upper Airway Cough Syndrome | Jeong-Eun Kim (Korea), Jun-Hwi Song (Korea) and Kyeung-Woo Kang (Korea) |
| 2094 | Study of Incidence of Chronic Allergic Rhinitis in Different Age Groups, Sex Prevalence and Type of Allergen Responsible for Chronic Allergic Rhinitis in Central India | Subir Jain (India) |
| 2095 | Inhibitory Effect of Ginsenoside Rg1 On Extracellular Matrix Production Via Extracellular Signal-Regulated Protein Kinase/Activator Protein 1 Pathway in Nasal Polyp-Derived Fibroblasts | Sung Moon Hong (Korea) and Heung-Man Lee (Korea) |
| 2096 | Clinical Efficacy of Desloratadine Therapy in Children with Persistent Form of Allergic Rhinitis and Its Impact On Asthma Symptoms | Ivan Shishimorov (Russia) |
| 2097 | Dentomaxillofacial Disorders in Children with Allergic Rhinitis | Claudia Ivonne Gallego (Mexico), Sandra Nora Gonzalez (Mexico), Alfredo Arias (Mexico), Marisela Hernandez (Mexico), Roberto Carrillo (Mexico), Hilda HH Torre (Mexico) and Alejandra Venegas (Mexico) |
| 2098 | Exhaled NO May Predict Development of Allergic Rhinitis in Children with Asthma | Yeong Ho Rha (Korea) and Han Seok Ko (Korea) |
| 2099 | Plants Remedies for Treatment of Inflammatory Diseases in the United States of America: Knowledge Among the Inhabitants of Los Angeles within California | Md. Ariful Haque Moll (United States) |
Posters

2100 | **New Approach to Treat Allergic Rhinitis With Vitamin E, Cod Liver Oil and Vitamin C with Use Nasal Steroidal Spray** | Geetendra Singh Dhanawat (India)

2102 | **The Activities of Allergy Pot as a Patient Group in Japan: Developing Treatment Guidelines** | Mariko Kuriyama (Japan) and Mari Shiozaki (Japan)

2103 | **Comparative Allergen Profile In Krishna - Godavari Region** | Hari Kishan Gonuguntla (India), Bhanu Naik Bhukya (India) and Prabhakar Rao Parankusam (India)

Sunday, 9 December 2012

**POSTER SESSION 3-1: ALLIED HEALTH**
Chairpersons: Barnali Bhattacharya (India) Dana Wallace (United States)

3001 | **Does Treatment of Gasteroesophageal Reflux Disease in Patients with Allergic Rhinitis Improve Allergic Symptoms?** | Reza Faridhosseini (Iran), Farahzad Jabbari (Iran), Afshin Shirkan (Iran), Mohammad Reza Zandkarimi (Iran) and Hadis Yousefzadeh (Iran)

3002 | **Aero-Allergen Sensitivity Among Patients Suffering From Bronchial Asthma in Bangalore, Karnataka, India** | Giriyanna Gowda (India), Chitra Nagaraj (India), B.G. Parasuramal (India) and - Hullaraj (India)

3003 | **The Relation of Cachexia to the Risk of Hospitalization with Fixed Airway Obstruction** | June-Hyuk Lee (Korea), An-Soo Jang (Korea), Sung-Woo Park (Korea), Dojin Kim (Korea) and June-Hyuk Lee (Korea)

3004 | **Pulmonary Function Tests: A Study of 1000 Normal Children** | Krishna Bihari Gupta (India)

3005 | **Vidal - Fernand - Samter Syndrome - Interdisciplinary Approach** | Daniela Neacsu (United States), Miorita Toader (Romania), Corneliu Toader (Romania) and Noela Elena Ionescu (Romania)

3006 | **Homeopathy in Treating Allergic Rhinitis – an Interventional Pilot Study** | Dr Shubhamoy Ghosh (India) and Dr Subhranil Saha (India)

3007 | **The Biomarker of Sublingual Immune Therapy** | Masafumi Sakashita (Japan), Yoshimasa Imoto (Japan), Yoko Osawa (Japan), Noboru Takahashi (Japan), Seita Kubo (Japan), Hideyuki Yamamoto (Japan), Takechiyo Yamada (Japan) and Shige Haru Fujieda (Japan)

3008 | **Comparison of Anti-Allergic Effect of Pneumococcal Conjugated Vaccine and Pneumococcal Polysaccharide Vaccine in a Murine Model of House Dust Mite Allergic Rhinitis** | Soo Whan Kim (Korea) and Boo-Young Kim (Korea)

3009 | **Comparative Assessment of Dental Caries Experience, Oral Hygiene Status, Gingival Health Status, Salivary Streptococcus Mutans Count and Lactobacillus Count Between Asthmatic and Non-Asthmatic Children Aged Between 5-12 Years in Davangere City, Karnataka** | Usha Venkatesh (India)

**POSTER SESSION 3-2: BASIC AND CLINICAL IMMUNOLOGY 1**
Chairperson: Francesca Levi-Schaffer (Israel)

3010 | **The RNA-Binding Protein Hur Coordinately Regulates GATA-3 and TH2 Cytokine Gene Expression in Dose Dependent Manner** | Ulus Atasoy (United States), Matt Gubin (United States), Joseph Magee (United States), Vincenzo Casolaro (United States) and Cristina Stellato (United States)

3011 | **Evaluation of Selected Parameters of Cellular Immunity At Diagnosis in Children with Osteosarcoma** | Katarzyna Markiewicz (Poland), Krzysztof Zeman (Poland), Agata Kozar (Poland), Maria Golebiowska Wawrzyniak (Poland) and Wojciech Wojcicki (Poland)

3012 | **Per a 10 Favors DCs Type 2 Polarizations by CD40 Cleavage and IL-12 Suppression in Cockroach-Sensitive Patients** | Chhavi Goel (India), Namita Kalra (India), BS Dwarakanath (India), SN Gaur (India) and Naveen Arora (India)

3013 | **Resource Limited Estimation of HIV-1 Viral Load From CD4 Cell Count Using Coupled Bacteriolog Foraging/ Jumping Frogs Algorithm** | Kamalanad Krishnamurthy (India) and Mannar Jawahar Ponnuswamy (India)

3014 | **Pollin Lipid Can Not Stimulate iNKT Cells in Pollen Sensitized Patients** | Mohammad Fereidouni (Iran), Shaghayegh Sadat Noorani Hassan Kiadeh (Iran) and Farahzad Jabbariazezad (Iran)

3015 | **Nonspecific Defense Factors in Premature Infants with Pneumonia** | Kamola Alimova (Uzbekistan), Nigora Fayzullaeva (Uzbekistan) and Furkat Muhidinovich Shamsiev (Uzbekistan)

3016 | **Successful Desensitization to Oxaliplatin for Metastatic Colorectal Carcinoma** | Praveen Buddiga (United States) and Malik Baz (United States)
**Poster Session 3-3: Basic and Clinical Immunology 2**

**Chairpersons:** Harald Renz (Germany)  
Christina West (Sweden)

**3017**  
A Functional Polymorphism in IL-5 Receptor Alpha May Influence Asthma Severity in Patients with Aspirin-Exacerbated Respiratory Disease | Purevsuren Losol (Korea), Seung-Hyun Kim (Korea), Yoo Seob Shin (Korea), Young Min Ye (Korea) and Hae-Sim Park (Korea)

**3018**  
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**3019**  
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**3020**  
Fish Oil Supplementation in Early Infancy Modulates Developing Infant Immune Responses but Not Clinical Allergy | Nina D’Vaz (Australia), Manori Amarashekara (Australia), Janet Dunstan (Australia), Suzanne Meldrum (Australia), Tracey Lee-Fullen (Australia), Jessica Metcalfe (Australia), Barbara Holt (Australia), Michael Serralha (Australia), Meni Tolic (Australia), Trevor Mori (Australia) and Susan Prescott (Australia)

**3021**  
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Jung-Won Park (Korea)
Joaõ Tebyrica (Brazil)

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3039 A Comparative Review of the Burden, Prevalence, Knowledge about Allergic Rhinitis Between the US and India | Munaijibuddin Arif Ahmed (India)

3040 Occurrence and Effects of Nasal Polyps in Patients with Bronchial Asthma and/or Allergic Rhinitis | Swati Behera (India)

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3044 Randomized, Double Blind Comparative Study to Assess Health Related Quality of Life with Mometasone & Formoterol Versus Fluticasone & Formoterol Dry Powder Inhaler (DPI) in the Treatment of Mild to Moderate Persistent Asthma | B.G. Parasuramalu (India)

3046 Questionnaire Survey of Patients with Allergic Disorders in Bangalore, India | Eash Hoskote (India), Suma Kumar (India) and Narasimhan Rajgopal (India)

3047 Impact of Obstructive Sleep Apnoea On Parameters of Metabolic Syndrome | Vinaya Karkhanis (India), Mehul Shah (India), Jyotsna Joshi (India) and Vinaya Karkhanis (India)

3048 Developing A Quality of Life Questionnaire for Indian Asthmatic Children (QOLQI) Below Age 5 Years - A Pilot Study | ASHA Pherwani (India)

3049 Questionnaire Survey of Patients with Allergic Disorders in the Public Health System in Brazil | Janaina M. Melo (Brazil), Adriana S. Moreno (Brazil), Elcio Viana (Brazil), Marcos Borges (Brazil), Persio Roxo Jr. (Brazil), Ana Carla S. Araújo (Brazil), Luane M. Mello (Brazil), Edmond Chan (Canada), Clare Ramsey (Canada), Moira Chan-Yeung (Canada) and Allan Becker (Canada)

3051 Profiles of Diagnosis and Treatment of Asthma in the Public Health System in Brazil | Janaina M. Melo (Brazil), Adriana S. Moreno (Brazil), Elcio Viana (Brazil), Marcos Borges (Brazil), Persio Roxo Jr. (Brazil), Ana Carla S. Araújo (Brazil), Luane M. Mello (Brazil), Edmond Chan (Canada), Clare Ramsey (Canada), Moira Chan-Yeung (Canada) and Allan Becker (Canada)

3052 IL-17, IL-8, TGF-Beta and GMCSF Levels in Patients with Allergic Asthma: Its Relation to Omalizumab Treatment | Arzu Didem Yalcin (Turkey), Atli Bisgin (Sweden) and Reginald M Gorczynski (Canada)

3053 Is It Necessary to Re-Evaluate the Airway Hyperresponsiveness While in the Treatment of Mild Asthma? | Jaechun Lee (Korea), Jong Hoo Lee (Korea) and Miok Kim (Korea)

3054 Modified Health Behaviour & Education Causing Allergy and Obesity | Syed Arham Husain (India)

3055 Relation Between Gastroesophageal Reflux Disease and Asthma | Daymee Novoa Selles (Cuba)

3056 Constructed Supporting Program Improves Asthma Treatment Outcomes in Children | Jing-Long Huang (Taiwan), Shu-Hsien Chen (Taiwan) and Kuo-Wei Yeh (Taiwan)

POSTER SESSION 3-5: HEALTH OUTCOMES, EDUCATION, HEALTHCARE DELIVERY AND QUALITY 2
Chairpersons:
Yuzhi Chen (China)
Peter Le Souef (Australia)

3051 Profiles of Diagnosis and Treatment of Asthma in the Public Health System in Brazil | Janaina M. Melo (Brazil), Adriana S. Moreno (Brazil), Elcio Viana (Brazil), Marcos Borges (Brazil), Persio Roxo Jr. (Brazil), Ana Carla S. Araújo (Brazil), Luane M. Mello (Brazil), Edmond Chan (Canada), Clare Ramsey (Canada), Moira Chan-Yeung (Canada) and Allan Becker (Canada)

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### Posters

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Welcome to Hyderabad!

Hyderabad, the capital of Andhra Pradesh, is known for its rich history and culture with monuments, mosques, temples and a rich and varied heritage in arts, crafts and dance. This 400-year old city sees the traditional and the modern co-existing in perfect harmony. Hyderabad offers its patrons experiences worth treasuring. From its topography dotted with rocks and boulders to landscaped gardens, from the quaint Charminar to towering global giants, from the colorful bangles of the city to multitude of international designers and from the delectable haleem to cuisines from all over the world, you will find the historical and the contemporary, side by side.
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HYCOR manufactures and markets high-quality diagnostic products used in clinical laboratories throughout the world to test for Allergy & Autoimmune disorders. Our focus is on applications where we can provide the highest value to clinicians in terms of innovation, reliability and customer service. We are committed to developing new products and technologies that bring actionable information to laboratories and clinicians in a cost-effective manner, improving patient care and contributing to healthcare cost containment. HYCOR headquarters are located in the United States and supported by facilities worldwide.

The Asia Pacific Association of Allergy, Asthma and Clinical Immunology (APAAACI)

Booth 5
The Asia Pacific Association of Allergy, Asthma and Clinical Immunology (APAAACI) is an association of national societies of Allergy and Clinical Immunology in the Asia Pacific region. Our objectives are to promote: exchange & progress of knowledge in the prevention & treatment of allergy, asthma, & immune-mediated diseases with particular emphasis on regional problems; exchange in training programs between member countries; cooperation in clinical & basic research and collaborative development of public information & education programs.

Cipla

Booth 21
Mumbai Central
Mumbai, India
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Cipla, with over 75 years experience and headquartered in India, is an emerging global pharmaceutical company with over 2,000 products in 65 therapeutic categories.

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Future Meetings

Booth 8
If you are interested in expanding your knowledge, come by the Future Meetings Booth to see what other associations and societies have to offer!

Global Allergy and Asthma Patient Platform (GAAPP)

Booth 11
Global Allergy and Asthma Patient Platform is a global association of organizations advocating the rights and interests of people with allergies and asthma.
Exhibit Hall Directory

**GlaxoSmithKline Pharmaceuticals Limited**  
**Booth 4**

Dr. Annie Besant Road  
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India  
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Fax: 022 24959494

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**Indian College of Allergy, Asthma and Applied Immunology (ICAAI)**  
**Booth 12**

Regd Office: VP Chest Institute  
Delhi University  
Delhi, India  
Telephone: 27666156  
Fax: 27667471

The ICAAI was established in 1967. The major objectives have been to promote allergy research, interact with similar regional and international organizations, organize educational and scientific meetings and publish journals.

The organization has more than 800 members and organizes annual meetings regularly in different parts of India and has recently published the *Indian Journal of Allergy and Immunology*.

**Indian Academy of Allergy (IAA)**  
**Booth 23**

1851 1st Cross 3rd Stage  
Prakashnagar, Bangalore 560021  
India  
Telephone: +91 9972217550

Academic and professional body established in 1989 having more than 300 members. It is a conglomerate of clinicians, aerobiologists, entomologists, and others from life sciences.  
MISSION  
To bring AWARENESS, EDUCATE and UPDATE about ALLERGY.  
IAA endeavors to carry out its mission by disseminating the current knowledge to understand, treat and prevent allergy and immunologic diseases in the community, among the medical professionals and also public.  
Continuing medical education programs, workshops with hands on training, and biannual conference are the main scientific activities of the academy.

**Iranian Society of Asthma & Allergy (ISAA)**  
**Booth 6**

Allergy & Immunology Dept  
Children’s Medical Center  
62 Dr Gharib St., Azadi Ave. TEHRAN  
IRAN 1419733151  
Telephone: +98 21 66597723  
Fax: +98 21 66938545

Society Description: The Iranian Society of Asthma and Allergy (ISAA) was approved according to the related regulations of the Ministry of Health and Medical Education in Aug 1996 and the license for its establishment was issued.  
Objectives of the Society:  
• Promotion of health and medical culture of the society;  
• Expansion of theoretical and clinical knowledge of asthma, allergy and immunology;  
• Education and research to prevent the occurrence of asthma and allergic diseases and improve their treatments;
### Exhibit Hall Directory

| Booth 3 | Japanese Society of Allergology (JSA) | 4th MY Bldg, 1-13-3, Ueno, Taito-ku, Tokyo 110-0005, Japan  
Telephone: 81-3-5807-1701  
Fax: 81-3-5807-1702 |
|---|---|---|

Japanese Society of Allergology (JSA) was founded in October 1952. Since then, in addition to publishing two peer reviewed journals – Japanese Journal of Allergology (in Japanese) and Allergology International (in English), the Society holds two meetings – Spring and Autumn meetings - bringing researchers in basic medicine and clinical science together. Membership, which has increased yearly, now stands at 10,029. The number of JSA's Board Certified Allergy Specialists is 3,150 as of September 10, 2012.

| Booth 22 | Lupin |  
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A Division of Lupin Ltd.  
Laxmi Towers, Plot No. C-25, ‘C’ Wing, 4th Floor  
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Respira, a division of Lupin Ltd. is dedicated for respiratory therapy. This division is relentlessly working towards the well-being of patients suffering from respiratory ailments, through drugs, devices, patient education and various patient awareness initiatives.

| Booth 13 | The Korean Academy of Asthma, Allergy and Clinical Immunology (KAAACI) | 1705 Kumho Palace B/D, 327-2 Changsin-dong Jongno-gu, Seoul, Korea  
Telephone: 82-2-747-0528  
Fax: 82-2-3676-2847 |
|---|---|---|

Since the Korean Academy of Asthma, Allergy and Clinical Immunology (KAAACI) founded in 1972 has grown to be one of the most active member societies of WAO with composing 1160 dedicated members. The mission of KAAACI is to disseminate the qualified care of allergic diseases and lead clinical and basic science. With the prevalence of allergic diseases being increasing in recent years, it became a social issue and the KAAACI is expanding social influence tremendously.

The KAAACI has pressed a regular scientific journal published in Korean since 1981, and generated a SCI journal entitled AAIR since 2009. Annual congresses are held in spring and autumn with being 400 participants and presenting 200 scientific abstracts. The members of KAAACI are participating more actively in many international meetings. The KAAACI has hosted regular international conferences for this region and has successfully made a bid for hosting the World Allergy Congress 2015.

| Booth 20 | MSD | 8TH Floor, Platina Blg Bandra Kurla Complex  
Mumbai  400098  
India  
Telephone: 67898888 |
|---|---|---|

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- Managing our environmental footprint
Located in Reinbek, Germany, Omega Diagnostics GmbH develops, manufactures and sells allergy tests for over 600 allergens. It has more than 20 years’ experience in the development of products for the diagnosis of allergic diseases. Over the years the company has gained a substantial understanding and knowledge in the production and standardisation of allergen extracts.

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Polish Society of Allergology (Polskie Towarzystwo Alergologiczne – PTA) is the largest allergological organization in Poland – PTA has 13 branches grouping over 1000 physicians. For almost 30 years PTA represents Polish allergology before government institutions and international organizations. PTA is creating PR campaigns and public education campaigns – POLASTMA (National Program of Early Diagnostic and Treatment of Asthma), media campaigns (World Asthma Day, World Allergy Week). PTA is organizer of one of the largest medical conferences in Poland - Educational Conference of the PTA and the Clinical Forum of Expert. PTA is an active participant in international medical conferences and congresses (WAC, congresses of EAACI), where the PTA has representatives among the speakers and exhibitors. PTA is also cooperating with international organizations: United Nations, European Union, WHO, WAO, EAACI and many others. If you want to find more information about PTA – please visit our website: http://en.pta.med.pl.

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Thermo Fisher Scientific
(Exhibition branded under Thermo Scientific) Booth 2

Rapsgatan 7P, P.O. Box 6460, 751 37 Uppsala Sweden
Telephone: +46 18 16 50 00
Fax:  +46 18 14 03 58
E-mail: info-ua.idd@thermofisher.com

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For more information, please visit www.thermoscientific.com/phadia.

World Allergy Organization (WAO) Booth 1

555 East Wells Street, Suite 1100 Milwaukee, WI 53202 United States
Phone: +1 414 276 1791
Fax: +1 414 276 3349
Email: info@worldallergy.org
Website: www.worldallergy.org

Please visit the WAO Booth to learn more about WAO Educational Programs, Online Learning, the World Allergy Organization Journal (WAOJ).

In addition, please visit the booth to learn more about the EAACI-WAO Congress 2013 from 22 – 26 June, in Milan, Italy as well as WISC 2014 in Rio de Janeiro, Brazil.
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—Michael Schatz, MD, MS, FAAAAI Editor-in-Chief, Journal of Allergy and Clinical Immunology: In Practice

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Andhra Pradesh
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For questions regarding accommodation, please visit the MCI India Information desk, which is located at the Main Entrance of the HICC. You may also book airport transfers and optional tours here.

The World Allergy Organization has appointed MCI Management India Pvt. Ltd. as the PCO and Official Agency handling accommodation for WISC 2012.
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If you would like to book a transfer to the airport, please visit the MCI India Information Desk near the main entrance of the HICC.

### Daily Shuttle Schedule

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#### LEMON TREE PREMIER & RED FOX HOTELS

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diagram image

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