



# WAC 2019

World Allergy Congress  
Update your knowledge!

DECEMBER 12-14, 2019  
Lyon, France



16 CME credits

# PROGRAM

[www.wac2019-allergy.com](http://www.wac2019-allergy.com)



# COMMITTEES

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## Organizing Committee Chairs

Ignacio J. ANSOTEGUI (*Spain*)  
Pascal DEMOLY (*France*)



### WAC 2019 CONGRESS SECRETARIAT

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# Welcome

Dear Colleagues,

The World Allergy Organization (WAO) and the French Allergy Society (SFA) are pleased to present a cutting-edge program covering all aspects of allergies.

Participants from many different countries are attending this event to promote global collaborations in order to improve the care management of our patients.

Allergology is now a full specialty in France thanks to the tremendous efforts that the allergy community has put together.

On behalf of the Local Organizing Committee and both allergy societies we are honored and delighted to welcome you to the World Allergy Congress 2019 in beautiful Lyon, France.



Pascal DEMOLY  
Chair of the LOC



Ignacio J. ANSOTEGUI  
President of the WAO



Annick BARBAUD  
Chair of the Scientific  
Committee



Philippe BONNIAUD  
President of the French  
Allergy Society (SFA)

# About us



## About the World Allergy Organization (WAO)



The World Allergy Organization's mission, as a world-wide alliance of allergy and clinical immunology societies, is to be a global resource and advocate for the specialty, advancing awareness and excellence in clinical care through education, research, and training. WAO consists of 99 regional and national allergy and clinical immunology societies; by collaborating with member societies, WAO provides direct educational outreach programs, symposia and lectureships to physicians in nearly 100 countries around the globe.

## About the French Allergy Society (SFA)



The French Society of Allergology is the society of allergy specialists in France. It brings together several disciplines affected by allergies: pulmonology, dermatology, immunology, ENT, ophthalmology, gastroenterology, internal medicine, pediatrics, occupational medicine and general medicine. It also brings together practitioners from different settings: university, hospital and private practice.

## World Allergy Organization Journal



The official journal of the World Allergy Organization, the World Allergy Organization Journal (WAOjournal) provides the global scientific and medical communities with up-to-date, quality content focused on the epidemiology of allergy, asthma, anaphylaxis, and clinical immunology. As an open access journal, WAOjournal can direct worldwide attention to the most important characteristics of allergy, asthma, and anaphylaxis, including current diagnostic and therapeutic options. In keeping with the mission of its sponsoring organization, the Journal is also committed to focusing on the epidemiologic consequences of climate change and the subsequent results in food habits and environmental pollution. This dissemination of quality information in an open access format will improve patient care on a global basis. Editors-in-Chief: Alessandro Fiocchi, MD, and Erika Jensen-Jarolim, MD. 2018 two-year impact factor: 3.684

Abstracts presented in person at the World Allergy Congress 2019 will be published in a special online supplement of the WAO journal after the event.

# Program at a glance

## Thursday, December 12

7:00-8:00 am	<b>WAO Junior Members Practical Course 1: New Digital Health Technologies &amp; Allergy practice</b>				Salon Prestige Gratte-Ciel (Level 2)
8:15 am	Welcome words				Amphithéâtre (Level 0)
8:30 - 10:00 am	<b>Pathways leading to atopic diseases and atopic multimorbidity</b>				Amphithéâtre (Level 0)
10:30 - 12:00 pm	<b>PARALLEL SESSIONS</b>				
	Allergy diagnosis Amphithéâtre (Level 0)	Updates In Food Allergy Forum 4 (Level -2)	Environmental Allergies Forum 5 (Level -2)	Sister Society Symposium: EAACI Salon Prestige Gratte-Ciel (Level 2)	
12:15-1:30 pm	<b>Industry-sponsored symposia (non CME accredited)</b>				
	Symposium Lunch 1 ALK Forum 4 (Level -2)	Symposium Lunch 2 STALLERGENES GREER Amphithéâtre (Level 0)		Symposium Lunch 3 ASTRAZENECA Forum 5 (Level -2)	
1:30 - 2:30 pm	<b>Sister Society Symposium: Pan Arab Society</b>				Salon Prestige Gratte-Ciel (Level 2)
2:30 - 4:00 pm	<b>ILC2 and asthma: what's new?</b>				Amphithéâtre (Level 0)
4:30 - 6:00 pm	<b>PARALLEL SESSIONS</b>				
	Origins of asthma Forum 4 (Level -2)	Pediatric Allergy Forum 5 (Level -2)	Allergen immunotherapy Amphithéâtre (Level 0)	Sister Society Symposium: TNSACI Salon Prestige Gratte-Ciel (Level 2)	
6:00 pm	World Allergy Congress 2019 - Opening Ceremony				Amphithéâtre (Level 0)
7:30 pm	Welcome Reception in the Exhibit Hall				

## Friday, December 13

7:00-8:00 am	<b>WAO Junior Members Practical Course 2: Spalking questions in Allergy</b>				Salon Prestige Gratte-Ciel (Level 2)
8:00-9:00 am	<b>Industry-sponsored breakfast symposium (non-CME accredited) - Thermofisher</b>				Forum 5 (Level -2)
9:00 - 10:30 am	<b>Novel therapies in skin allergic diseases</b>				Amphithéâtre (Level 0)
11:00 - 12:30 pm	<b>PARALLEL SESSIONS</b>				
	Severe Asthma Management Forum 4 (Level -2)	Food Allergy Amphithéâtre (Level 0)	Allergy Phenotypes Forum 5 (Level -2)	Sister Society Symposium: AAAAI Salon Prestige Gratte-Ciel (Level 2)	
12:45-2:00 pm	<b>Industry-sponsored symposia (non CME accredited)</b>				
	Symposium Lunch 4 MSD Forum 4 (Level -2)	Symposium Lunch 5 ABBVIE Forum 5 (Level -2)		Symposium Lunch 6 SANOFI Amphithéâtre (Level 0)	
	2:00 - 3:00 pm <b>House of delegates meeting</b>				Salon Prestige Gratte-Ciel (Level 2)
3:00 - 4:30 pm	<b>PARALLEL SESSIONS</b>				
3:00 - 4:30 pm	<b>Drug hypersensitivity: a need for consensus</b>		<b>World Allergy Forum: Advances and Critical Issues in Asthma</b>		Forum 5 (Level -2)
	Amphithéâtre (Level 0)				
5:00 - 6:30 pm	<b>PARALLEL SESSIONS</b>				
	Food Allergy Amphithéâtre (Level 0)	Drug Allergy Forum 4 (Level -2)	Anaphylaxis Forum 5 (Level -2)	Sister Society Symposium: ACAAI Salon Prestige Gratte-Ciel (Level 2)	
6:30-7:30 pm	<b>WAO Junior Members' symposium</b>				Forum 5 (Level -2)

# Program at a glance

Saturday, December 14

8:30 - 10:00 am	Climate change, air pollution and health impact of airborne biological particles				Amphithéâtre (Level 0)
10:30 - 12:00 pm	PARALLEL SESSIONS				
	Drug Allergy Amphithéâtre (Level 0)	Upper Respiratory Tract Allergies Forum 4 (Level -2)	Asthma Biology Forum 5 (Level -2)	Sister Society Symposium: JSA Salon Prestige Gratte-Ciel (Level 2)	
12:00 - 1:30 pm	PARALLEL SESSIONS				
	Mechanisms of Allergy Forum 4 (Level -2)	Microbiota and Allergy Forum 5 (Level -2)	Urticaria and Atopic Dermatitis Amphithéâtre (Level 0)	Sister Society Symposium: SLAAI Salon Prestige Gratte-Ciel (Level 2)	
2:00 - 3:30 pm	PARALLEL SESSIONS				
	Sister Society Symposium: APAAACI Forum 4 (Level -2)			Sister Society Symposium: INTERASMA Forum 5 (Level -2)	
3:30 pm	End of the conference				



# THURSDAY, DECEMBER 12

7:00 - 8:00 am	<b>WAO Junior Members Practical Course 1: New Digital Health Technologies &amp; Allergy practice</b> <i>Chairs: Juan Carlos Ivancevich (Argentina), Dana Wallace (USA)</i> <i>WAO Junior Members' speakers: Ivana Djuric (Serbia), Witchaya Sir Suwatchaia (Thailand)</i>	Salon Prestige Gratte-Ciel (Level 2)		
8:15 am	Welcome words	Amphithéâtre (Level 0)		
8:30 - 10:00 am	<b>Pathways leading to atopic diseases and atopic multimorbidity</b> <i>Chairs: Ignacio J. Ansotegui (Spain), Pascal Demoly (France)</i>	Amphithéâtre (Level 0)		
8:30 - 9:00 am	New risk loci associated with atopic multimorbidity <i>Valérie SIROUX (France)</i>			
9:00 - 9:30 am	Atopic phenotypes and their implication in the atopic march <i>Adnan CUSTOVIC (UK)</i>			
9:30 - 10:00 am	Mechanisms underlying allergy and asthma at a molecular level: results from MeDALL studies <i>Erik MELEN (Sweden)</i>			
10:00 - 10:30 am	Coffee-Break and poster sessions + visit of the exhibit area 			
10:30 - 12:00 pm	<b>PARALLEL SESSIONS</b>			
	<b>Allergy Diagnosis</b> Amphithéâtre (Level 0)	<b>Updates In Food Allergy</b> Forum 4 (Level -2)	<b>Environmental Allergies</b> Forum 5 (Level -2)	<b>Sister Society Symposium: EAACI</b> Salon Prestige Gratte-Ciel (Level 2)
10:30 - 12:00 pm	<b>Allergy Diagnosis</b> <i>Chairs: Ignacio J. Ansotegui (Spain), Joana Vitte (France)</i>	Amphithéâtre (Level 0)		
10:30 - 10:50 am	<b>Latest updates on allergy diagnosis</b> <i>Ignacio J. ANSOTEGUI (Spain)</i>			
10:50 OC1 JM	Molecular allergy to Aspergillus fumigatus in distinguished diagnosis between allergic bronchopulmonary aspergillosis and Aspergillus fumigatus-sensitized asthma in a Southern Chinese Cohort <i>Wenting Luo - The First Affiliated Hospital of Guangzhou Medical University – Guangzhou, China</i>			
11:04 OC2	Novel method for assessing basophil activation by measuring altered expression of membrane-bound and intracellular basogranulin stores <i>Mohammad Alzahrani - Al-Baha University - Saudi Arabia</i>			
11:18 OC3	Protein microarrays: The future of allergy diagnosis? Optimization of coating and printing of allergen arrays used with fluorescent humanised basophil reporter cell line NFAT-DsRed RBL <i>Marina Kalli - University of Nottingham - United Kingdom</i>			
11:32 OC4	RNA sequencing profiling potential biomarkers for nut allergy <i>Khui Hung Lee, Curtin University of Technology, Bentley - Western Australia</i>			
11:46 OC5 JM	BAT with molecular allergens of Aspergillus spp.: from extract to molecules to enhance diagnosis of allergic broncho-pulmonary aspergillosis <i>Moise Michel - Aix-Marseille University - France</i>			



# THURSDAY, DECEMBER 12

10:30 - 12:00 pm	<b>Updates In Food Allergy</b> <i>Chairs: Kirsten Beyer (Germany), Martine Morisset (France)</i>	Forum 4 (Level -2)
	10:30 - 10:50 am <b>Food allergy prevention</b> <i>Kirsten BEYER (Germany)</i>	
	10:50 OC 6 JM The impact of cow's milk allergy in infants with failure to thrive: Experience from an Italian Referral Center <i>Lucia Diaferio - Aldo Moro University of Bari - Bari, Italy</i>	
	11:04 OC 7 JM Analysis of 10 cases of food protein-induced enterocolitis syndrome due to hen's egg <i>Makoto Nishino - Department of Pediatrics, NHO Sagamihara National Hospital - Sagamihara - Japan</i>	
	11:18 OC 8 The presence of both hen's egg Ovalbumin allergen and Ovalbumin specific Immunoglobulin in breastmilk is associated with decreased risk of egg allergy in infants <i>Vera Verhasselt - University of Western Australia - Australia</i>	
	11:32 OC 9 Toll-like receptor signaling has inverted U-shaped response over time with the Western environment <i>Jing Guo - Curtin University - Australia</i>	
	11:46 OC 10 Polyallergy/peanuts and nuts sensitization regarding 23 very young children <i>Chloé Brocart - Reims University Hospital - France</i>	
10:30 - 12:00 pm	<b>Environmental Allergies</b> <i>Chairs: Frédéric De Blay (France), Mario Sanchez Borges (Venezuela)</i>	Forum 5 (Level -2)
	10:30 - 10:50 am <b>New pathways in environmental allergies</b> <i>Frédéric DE BLAY (France)</i>	
	10:50 OC 11 JM Characterization of the allergenic properties of a pi-class glutathione transferase from Ascaris suum <i>Ana Lozano - Institute for Immunological Research, University of Cartagena - Cartagena, Colombia</i>	
	11:04 OC 12 JM Identification of a new, no cross-reacting allergen from Ascaris lumbricoides <i>Josefina Zakzuk - University of Cartagena - Colombia</i>	
	11:18 OC 13 Association of air pollution with severe ocular allergic inflammatory diseases <i>Dai Miyazaki, - Tottori University - Japan</i>	
	11:32 OC 14 Climate change impact on pollen concentrations and air pollution <i>Mikhail Sofiev - Finnish Meteorological Institute - Finland</i>	
	11:46 OC 15 The antigenicity and safety of transgenic rice seeds which contain genetically modified Japanese cedar pollen allergens <i>Shinya Takaishi - Department of Otorhinolaryngology, Jikei University School of Medicine - Japan</i>	
10:30 - 12:00 pm	<b>Sister Society Symposium: EAACI</b> Immune modulation - a highway to discovery science	Salon Prestige Gratte-Ciel (Level 2)
	10:30 Allergen Immunotherapy back to the future <i>Marek Jutel (Poland)</i>	

# THURSDAY, DECEMBER 12

	<b>Sister Society Symposium: EAACI (continued)</b>		
	11:00 Biologics: the future is now <i>Ioana Agache (Romania)</i>		
	11:30 Perspectives of immunomodulatory peptides <i>Mohamed Shamji (UK)</i>		
12:15-1:30 pm	<b>Industry-sponsored symposia (non-CME accredited)</b>		
	Symposium Lunch 1 - p.54 ALK Forum 4 (Level -2)	Symposium Lunch 2 - p.54 STALLERGENES GREER Amphithéâtre (Level 0)	Symposium Lunch 3 - p.54 ASTRAZENECA Forum 5 (Level -2)
1:30 - 2:30 pm	<b>Sister Society Symposium: Pan Arab</b> Chronic Cough in Non-Asthmatics: Look Up!! <i>Chairs: Maryam Yousuf Al-Nesf (Qatar), Lubna Hwejeh (France)</i> Salon Prestige Gratte-Ciel (Level 2)		
	Causes and Evaluation of Chronic Cough <i>Sami Bahna (USA)</i>		
	The Rhinologist's Approach to Chronic Cough <i>Phillip Rouadi (Lebanon)</i>		
	Laryngeal Allergy: The Alternative Diagnosis to Laryngoesophageal Reflux <i>Fares Zaitoun (Lebanon)</i>		
2:30 - 4:00 pm	<b>ILC2 and asthma: what's new?</b> <i>Chairs: Anne Tsicopoulos (France), Francesca Levi-Schaffer (Israel)</i>		
2:30 - 3:00 pm	ILC2 and severe asthma <i>Anne TSICOPoulos (France)</i>		
3:00 - 3:30 pm	Neuro immune crosstalk in allergic lung inflammation <i>Vijay KUCHROO (USA)</i>		
3:30 - 4:00 pm	Negative regulators of ILC2 in asthma <i>Jenny MJÖSBERG (Sweden)</i>		
4:00 - 4:30 pm	Coffee-Break and poster sessions + visit of the exhibit area		



# THURSDAY, DECEMBER 12

PARALLEL SESSIONS				
4:30 - 6:00 pm	Origins of Asthma	Pediatric Allergy	Allergen immunotherapy	Sister Society Symposium: TNSACI
	Forum 4 (Level -2)	Forum 5 (Level -2)	Amphithéâtre (Level 0)	Salon Prestige Gratte-Ciel (Level 2)
4:30 - 6:00 pm	<b>Origins of Asthma</b> <i>Chairs: Luis Caraballo (Colombia), Cécile Chenivesse (France)</i>			Forum 4 (Level -2)
	4:30 - 4:50 pm <b>Origins of Asthma - genesis</b> <i>Luis CARABALLO (Colombia)</i>			
	4:50 OC 16 JM Antibiotic use in the first year of life as a risk factor for asthma symptoms. What is new in the association? <i>Estefanía Vasquez-Echeverri - Hospital Infantil de México Federico Gomez, Mexico City - Mexico</i>			
	5:04 OC 17 JM Metabolic risk profile and risk of future asthma: a nationwide cohort study <i>Dong Keon Yon - CHA Bundang Medical Center, Seongnam - South Korea</i>			
	5:18 OC 18 Gene signatures of responders vs. non-responders to inhaled endotoxin challenge <i>David Peden - University of North Carolina - USA</i>			
	5:32 OC 19 We are what we experienced before birth: Lessons from Epigenetics <i>Saskia Trump - Universitätmedizin Berlin and Berlin Institute of Health - Germany</i>			
	5:46 OC 20 Sensitisation patterns to allergen molecules in childhood and associations with allergic morbidity at age 8 years in the PARIS birth cohort <i>Mélissa Berroua - Université Paris Descartes, Faculté de Pharmacie de Paris - France</i>			
4:30 - 6:00 pm	<b>Pediatric Allergy</b> <i>Chairs: Jean-Christoph Caubet (Switzerland), Anca Mirela Chiriac (France), Gary Wong (Hong-Kong)</i>			Forum 5 (Level -2)
	4:30 - 4:50 pm <b>Latest updates on pediatric drug allergy</b> <i>Jean-Christoph CAUBET (Switzerland)</i>			
	4:50 OC 21 There are still gaps in the pre-hospital and hospital management of anaphylaxis in children <i>Guillaume Pouessel - Roubaix University Hospital, Roubaix - France</i>			
	5:04 OC 22 Mutation of NLRC4 in patients affected by severe FPIES reactions to multiple foods <i>Valentina Pecora - Children's Hospital Bambino Gesù - Italy</i>			
	5:18 OC 23 Changes of allergic disease prevalence at the age of 5 years with a 12-year interval <i>Chizuko Sugizaki - Sagamihara National Hospital - Japan</i>			
	5:32 OC 24 Safety and cost effectiveness of direct supervised ambulatory drug provocation tests in children with mild non-immediate reactions to beta-lactams <i>Guillaume Lezmi - AP-HP, Hôpital Necker-Enfants Malades, Paris - France</i>			

	<b>Pediatric Allergy (continued)</b>	
	5:46 OC25 <b>Safety of Yellow Fever Vaccine Administration in Confirmed Egg-Allergic Patients</b> <i>Clarissa Morais Busatto Gerhardt - Allergy and Immunology Division - Department of Pediatrics, Faculdade de Medicina, Universidade de São Paulo - Brazil</i>	
4:30 - 6:00 pm	<b>Allergen Immunotherapy</b> <i>Chairs: Moises Calderon (UK), Davide Caimmi (France)</i>	Amphithéâtre (Level 0)
	4:30 - 4:50 pm <b>Latest updates on allergen immunotherapy</b> <i>Moises CALDERON (UK)</i>	
	4:50 OC26 JM The impact of a Clinical Decision Support System on allergen immunotherapy prescription in children and adults with seasonal allergic rhinitis <i>Stefania Arasi - Bambino Gesù Children's Hospital, IRCCS - Roma - Italy</i>	
	5:04 OC27 Basophil activation test is a useful tool for Hymenoptera venom immunotherapy follow-up <i>Pascale Nicaise Roland - Bichat hospital, Immunology, Paris - France</i>	
	5:18 OC28 Specific IgG4/IgE response after rapid desensitization to low-dose oral immunotherapy with adjunct omalizumab in multi-food allergic patients <i>Sayantani Sindher - Stanford University - USA</i>	
	5:32 OC29 Pharmacoeconomics of allergy immunotherapy versus pharmacotherapy <i>Linda Cox - University of Miami - USA</i>	
4:30 - 6:00 pm	<b>Sister Society Symposium: TNSACI</b> Novel approaches in food allergy and immunodeficiencies: from bench to bedside <i>Chairs: Bülent E. Sekerel, Dilsad Mungan (Turkey)</i>	Salon Prestige Gratte-Ciel (Level 2)
	Stepwise oral egg challenge and predictive power of egg, ovomucoid IgE in egg allergy <i>Motohiro Ebisawa (Japan)</i>	
	Stepwise oral milk challenge and predictive power of milk, casein IgE in milk allergy <i>Cansin Sackesen (Turkey)</i>	
	Targeting complement in gut leakiness: A novel approach in protein-losing enteropathies <i>Ahmet Ozen (Turkey)</i>	



THURSDAY, DECEMBER 12

6:00 pm	World Allergy Congress 2019 - Opening Ceremony <i>Ignacio J. Ansotegui (Spain), Annick Barbaud (France), Philippe Bonniaud (France), Pascal Demoly (France), Motohiro Ebisawa (Japan)</i>	Amphithéâtre (Level 0)
6:30 pm	Opening Lecture: 2018 Lifetime Achievement Award Recipient - <i>Jean Bousquet (France)</i> <b>Anamorphosis in allergy phenotypes for change management</b> Welcome to the Joint Congress & Lyon <ul style="list-style-type: none"><li>• Introduction by the SFA President - <i>Philippe Bonniaud (France)</i></li><li>• Introduction by the WAO President - <i>Ignacio J. Ansotegui (Spain)</i></li><li>• Presentation of WAO Awards - <i>Ignacio J. Ansotegui (Spain)</i></li><li>• Lifetime Achievement Award Presentation</li></ul>	
	Opening Lecture: 2019 Lifetime Achievement Award Recipient - <i>Stephen Holgate (UK)</i> <b>Outdoor and indoor air pollution: Major environmental drivers of new and established asthma</b> Official Opening of the Congress	
7:30 pm	Welcome Reception	Exhibit Hall



# FRIDAY, DECEMBER 13

7:00-8:00 am	<b>WAO Junior Members Practical Course 2: Spalking questions in allergy</b> <i>Chairs: Giovanni Passalacqua (Italy), Anahí Yáñez (Argentina)</i> <i>WAO Junior Members speakers: Maria João Vasconcelos (Portugal), Cinthia de la Cruz (Spain), Rosa Laura Villarreal (Mexico)</i>	Salon Prestige Gratte-Ciel (Level 2)		
8:00-9:00 am	<b>Industry-sponsored breakfast symposium</b> (non-CME accredited) <b>Thermostisher - p.55</b>	Forum 5 (Level -2)		
9:00 - 10:30 am	<b>Novel therapies in skin allergic diseases</b> <i>Chairs: Marcus Maurer (Germany), Annick Barbaud (France)</i>	Amphithéâtre (Level 0)		
9:00 - 9:30 am	Small molecules in skin allergic diseases <i>Audrey NOSBAUM (France)</i>			
9:30 - 10:00 am	Biologics in chronic spontaneous urticaria <i>Marcus MAURER (Germany)</i>			
10:00 - 10:30 am	Biologics in atopic dermatitis <i>Thomas BIEBER (Germany)</i>			
10:30 - 11:00 am	Coffee-Break and poster sessions   Meet and greet the authors in the Poster Session area (Level -2)			
11:00 - 12:30 pm	<b>PARALLEL SESSIONS</b>			
	<b>Severe Asthma Management</b> Forum 4 (Level -2)	<b>Food Allergy</b> Amphithéâtre (Level 0)	<b>Allergy Phenotypes</b> Forum 5 (Level -2)	<b>Sister Society Symposium: AAAAI</b> Salon Prestige Gratte-Ciel (Level 2)
11:00 - 12:30 pm	<b>Severe Asthma Management</b> <i>Chairs: Arnaud Bourdin (France), Giorgio Walter Canonica (Italy)</i>			Forum 4 (Level -2)
11:00 - 11:20 am	<b>Latest updates on biomarkers and new therapeutics for severe asthma management</b> <i>Arnaud BOURDIN (France)</i>			
11:20 OC 31 JM	Clinical-economic impact of mepolizumab in patients with severe hypereosinophilic asthma <i>Diego Bagnasco - University of Genoa - Italy</i>			
11:34 OC 32 JM	Astonishing low adherence to inhaled therapy characterizes patients with severe asthma treated with biologics <i>Marco Caminati - Verona University Hospital - Italy</i>			
11:48 OC 33	Efficacy of Mepolizumab in patients with previous Omalizumab treatment failure: real life observation <i>Diego Bagnasco - University of Genoa - Italy</i>			
12:02 OC 34	Nasal polyps impact in severe asthma patients: evidences from the SANI <i>Giorgio Walter Canonica - Humanitas University - Italy</i>			
12:16 OC 35	Biomarker relatability in the International Severe Asthma Network <i>Giorgio Walter Canonica - Humanitas University - Italy</i>			



# FRIDAY, DECEMBER 13

11:00 - 12:30 pm	<b>Food Allergy</b> <i>Chairs: Flore Amat (France), Alessandro Fiocchi (Italy)</i>	Amphithéâtre (Level 0)
	11:00 - 11:20 am <b>New strategies to fight food allergies</b> <i>Alessandro FIOCCHI (Italy)</i>	
	11:20 OC 36 JM Novel dosing strategy of omalizumab during multi-allergen oral-immunotherapy <i>Sayantani Sindher - Stanford University - USA</i>	
	11:34 OC 37 JM Oral immunotherapy for peanut allergy: a systematic review and meta-analysis <i>Derek Chu - McMaster University, Hamilton - Canada</i>	
	11:48 OC 38 IgE Immunoapheresis for Treatment of Pediatric Patients with Severe Asthma and Multiple Food Anaphylaxis: a Pilot Study <i>Alessandro Fiocchi - Bambino Gesù Children's Hospital - Italy</i>	
	12:02 OC 39 JM A safe and effective protocol for peanut oral immunotherapy <i>Sophie Carra - Montpellier University Hospital - France</i>	
	12:16 OC 40 A randomized study assessing safety and efficacy of etokimab monotherapy in peanut allergic participants <i>Sayantani Sindher - Stanford University - USA</i>	
11:00 - 12:30 pm	<b>Allergy Phenotypes</b> <i>Chair: Victoria Cardona (Spain), Jocelyne Just (France)</i>	Forum 5 (Level -2)
	11:00 - 11:20 am <b>Latest updates in multiple organ allergy Involvement</b> <i>Jocelyne JUST (France)</i>	
	11:20 OC 42 Atopy phenotypes in relation to childhood asthma persistence <i>Helena Pite - Allergy Center, CUF Descobertas Hospital, CUF Infante Santo Hospital - Portugal</i>	
	11:34 OC 43 Pollen food associated syndrome: the newly described Gibberellin Regulated Protein family <i>Pascal Poncet - Institut Pasteur, Paris - France</i>	
	11:48 OC 44 Evolution of the allergic sensitization profile in children from the PARIS birth cohort <i>Moise Michel - Hôpitaux Universitaires Paris Nord Val de Seine - France</i>	
	12:02 OC 45 Early-life sensitization to house dust mites <i>You Hoon Jeon - Hallym University Dongtan Sacred Heart Hospital - Republic of South Korea</i>	

# FRIDAY, DECEMBER 13

11:00 - 12:30 pm	<b>Sister Society Symposium: AAAAI</b> Updates on Anaphylaxis – Controversies and Clarifications from the 2020 JTFPP Anaphylaxis Guideline <i>Chairs: Lanny Rosenwasser (USA)</i>		
	Perioperative anaphylaxis - reconciling differences between observations in Europe vs. USA <i>David Lang (USA)</i> Revised recommendations for pretreatment with antihistamine and corticosteroid <i>John Oppenheimer (USA)</i> Risk factors for biphasic anaphylaxis <i>David Khan (USA)</i>		
12:45-2:00 pm	<b>Industry-sponsored symposia (non-CME accredited)</b>		
	<b>Symposium Lunch 4 - p.55</b> MSD <span style="background-color: #e0e0e0; padding: 2px;">Forum 4 (Level -2)</span>	<b>Symposium Lunch 5 - p.56</b> ABBVIE <span style="background-color: #e0e0e0; padding: 2px;">Forum 5 (Level -2)</span>	<b>Symposium Lunch 6 - p.56</b> SANOFI <span style="background-color: #e0e0e0; padding: 2px;">Amphithéâtre (Level 0)</span>
2:00 - 3:00 pm	<b>House of delegates meeting</b> <i>By invitation only</i>		
	<span style="background-color: #e0e0e0; padding: 2px;">Salon Prestige Gratte-Ciel (Level 2)</span>		
3:00 - 4:30 pm	<b>PARALLEL SESSIONS</b>		
3:00 - 4:30 pm	<b>Drug hypersensitivity: a need for consensus</b> <i>Chairs: Mario Sanchez Borges (Venezuela), Pascal Demoly (France)</i>	<span style="background-color: #e0e0e0; padding: 2px;">Amphithéâtre (Level 0)</span>	<b>World Allergy Forum: Advances and Critical Issues in Asthma</b> <i>Chairs: Ignacio J. Ansotegui (Spain), Philippe Bonninaud (France)</i>
	Delayed allergic reactions <i>Annick BARBAUD (France)</i> Betalactam antibiotics <i>Maria TORRES (Spain)</i> Radio contrast media <i>Mario SANCHEZ BORGES (Venezuela)</i>		Mechanisms of allergen-induced asthma <i>Luis CARABALLO (Colombia)</i> Overuse of corticosteroids in asthma <i>Giorgio Walter CANONICA (Italy)</i> Biological treatments in asthma <i>Eugene R. BLEECKER (USA)</i>
4:30 - 5:00 pm	Coffee-Break and poster sessions <span style="background-color: #e0e0e0; padding: 2px;">☕</span> <span style="background-color: #e0e0e0; padding: 2px;">➡</span> Meet and greet the authors in the Poster Session area (Level -2)		
5:00 - 6:30 pm	<b>PARALLEL SESSIONS</b>		
	<b>Food Allergy</b> <span style="background-color: #e0e0e0; padding: 2px;">Amphithéâtre (Level 0)</span>	<b>Drug Allergy</b> <span style="background-color: #e0e0e0; padding: 2px;">Forum 4 (Level -2)</span>	<b>Anaphylaxis</b> <span style="background-color: #e0e0e0; padding: 2px;">Forum 5 (Level -2)</span>
	<b>Sister Society Symposium: ACAAI</b> <span style="background-color: #e0e0e0; padding: 2px;">Salon Prestige Gratte-Ciel (Level 2)</span>		
5:00 - 6:30 pm	<b>Food Allergy</b> <i>Chairs: Motohiro Ebisawa (Japan), Jean-Luc Fauquert (France)</i>		
	<span style="background-color: #e0e0e0; padding: 2px;">Amphithéâtre (Level 0)</span>		
5:00 - 5:20 pm	<b>Food allergy diagnosis and management</b> <i>Motohiro EBISAWA (Japan)</i>		
5:20 OC 46 JM	Anaphylaxis caused by lipid transfer proteins: an emerging and unsettling syndrome <i>Filipe Benito-Garcia - CUF Descobertas Hospital, Lisbon - Portugal</i>		



FRIDAY, DECEMBER 13

5:34 OC 47 JM

Randomized controlled trial of oral immunotherapy for children with severe cow's milk allergy: heated milk vs. unheated milk  
*Ken-ichi Nagakura - National Hospital Organization Sagamihara National Hospital, Kanagawa - Japan*

5:48 OC 48

Ara h 6-specific IgE is a good predictor of peanut allergy in Japanese children  
*Sakura Sato - National Hospital Organization Sagamihara National Hospital - Japan*

6:02 OC 49

Highlighting of allergens found in edible crickets (*ornithachris turbida cavroisi*) from Niger using 2D western blot  
*Tahiro Hamidou - Lamordé hospital of Niamey - Niger*

6:16 OC 50

Advances in alpha gal allergy  
*Michael Levin - University of Cape Town - South Africa*

5:00 - 6:30 pm

## Drug Allergy

*Chairs: Victoria Cardona (Spain), Audrey Nosbaum (France)*

Forum 4 (Level -2)

5:00 - 5:20 pm

### Profiling reactions to chemotherapy and biologics

*Victoria CARDONA (Spain)*

5:20 OC 51

Tolerance of Iodixanol, a nonionic, isosmolar contrast agent in case of immediate hypersensitivity reactions to radiocontrast media

*Hélène Mascitti - Allergy Service, Tenon Hospital, AP-HP, Paris-Sorbonne University - France*

5:34 OC 52

Immediate hypersensitivity to iodinated contrast media: interest of intravenous challenge test with low dose in addition of skin-testing

*Sébastien Lefevre - Metz Regional Hospital - France*

5:48 OC 53

A review of adverse reactions to gadolinium contrasts (MRI) in the last 10 years

*Maria Teresa Audicana Berasategui - HUA Araba Allergy Department Osakidetza - Spain*

6:02 OC 54 JM

Designing a combined intervention for urgent betalactam administration in patients with a suspicion of penicillin allergy

*Omar Al Ali - Department of Pulmonology, Division of Allergy, University Hospital of Montpellier - France*

6:16 OC 55 JM

Analyzing the trends of drug allergy testing over two decades from the Drug Allergy and Hypersensitivity Database

*Witchaya Srisuwatchari - University Hospital of Montpellier - France*

5:00 - 6:30 pm

## Anaphylaxis

*Chairs: Luciana Kase Tanno (France), Francesca Levi-Schaffer (Israel)*

Forum 5 (Level -2)

5:00 - 5:20 pm

### New approaches in anaphylaxis management

*Luciana KASE TANNO (France)*

5:20 OC 56 JM

Anaphylaxis in primary care: Systematic review to support quality of management and optimization of healthcare pathways

*Myriam Mamodaly - Montpellier University Hospital, Montpellier - France*



## Anaphylaxis (continued)

5:34 OC 57 JM

An Audit on Schools' Policy Regarding Emergency Adrenaline Auto-Injector Use and Provision of Spare Pens in the East and North Hertfordshire Region of the UK

*Michael Ha - Lister Hospital, Stevenage - UK*

5:48 OC 58

The distribution of diagnoses of anaphylactic syndromes in the search for idiopathic anaphylaxis over a 15 years period at an academic medical center

*Paul Greenberger - Northwestern University Feinberg School of Medicine - USA*

6:02 OC 59

Food-induced anaphylaxis phenotype in infancy: a retrospective analysis

*Guillaume Pouessel - Roubaix University Hospital, Roubaix - France*

6:16 OC 60

Analysis of tryptase prescription in a teaching hospital

*Moise Michel - Aix-Marseille University - France*

5:00 - 6:30 pm

## Sister Society Symposium: ACAAI

Emerging Topics in Allergy

Salon Prestige Gratte-Ciel (Level 2)

*Chair: Bryan Martin (USA)*

Vaping: What We Need to Know

*Todd Mahr (USA)*

Physician Burnout & Wellness-Saving the Allergist

*Michael Blaiss (USA)*

New Biologic Therapies for Severe Asthma: Does it Help to Block Cytokines?

*Stan Fineman (USA)*

6:30 - 7:30 pm

## WAO JUNIOR MEMBER'S SYMPOSIUM (by invitation only) with the support of AstraZeneca

Forum 5 (Level -2)

*Chairs: Dimitri Pogorelov (Russia), Cesar Fireth (Mexico)*

The allergy specialty worldwide and the collaboration among Junior Members

*Luciana Kase Tanno (France/Brazil)*

How to apply biological treatment in patients with overlapping >phenotypes of asthma

*Marco Caminati (Italy)*

How to do most for your abstract presentation

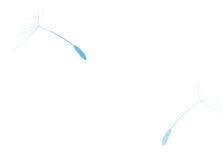
*Alexei Gonzalez (USA)*





# SATURDAY, DECEMBER 14

8:30 - 10:00 am	<b>Climate change, air pollution and health impact of airborne biological particles</b> <i>Chairs: Gennaro D'Amato (Italy), Philippe Bonniaud (France)</i>		
8:30 - 9:00 am	Climate change and its direct and indirect effects on the allergy epidemic <i>Isabella ANNESI-MAESANO (France)</i>		
9:00 - 9:30 am	Climate change: consequences on pollination and sporilation <i>Jeroen BUTERS (Germany)</i>		
9:30 - 10:00 am	Thunderstorm asthma, not only pollens but also mold <i>Gennaro D'AMATO (Italy)</i>		
10:00 - 10:30 am	Coffee-Break and poster sessions + visit of the exhibit area		
10:30 - 12:00 pm	<b>PARALLEL SESSIONS</b>		
	<b>Drug Allergy</b> Amphithéâtre (Level 0)	<b>Upper Respiratory Tract Allergies</b> Forum 4 (Level -2)	<b>Asthma Biology</b> Forum 5 (Level -2)
	<b>Sister Society Symposium: JSA</b> Salon Prestige Gratte-Ciel (Level 2)		
10:30 - 12:00 pm	<b>Drug Allergy</b> <i>Chairs: Pascal Demoly (France), Audrey Nosbaum (France)</i>		
10:30 - 10:50 am	<b>Beta-lactam allergy: provocative or predictive model</b> <i>Pascal DEMOLY (France)</i>		
10:50 OC 61 JM	Incidence of and risk factors for perioperative and periprocedural anaphylaxis in the United States <i>Alexei Gonzalez-Estrada - Mayo Clinic, Jacksonville, FL - USA</i>		
11:04 OC 62 JM	Drug allergy in primary care: systematic review to support quality of management and optimization of healthcare pathways <i>Clara Gaudin - Montpellier, University Hospital, Montpellier - France</i>		
11:18 OC 63	Desensitization to penicillin is safe and effective in allergic pregnant women with syphilis <i>Pedro Giavina Bianchi - Universidade de São Paulo - Brazil</i>		
11:32 OC 64	NMBA-specific memory T cell quantification by CD154 expression in anaphylaxis diagnosis <i>Luc de Chaisemartin- Bichat Hospital, Immunology - France</i>		
11:46 OC 65	Genetic risk markers of carbamazepine-induced severe cutaneous adverse reactions: new candidates in Koreans <i>Hye-Ryun Kang - Seoul National University Hospital - Republic of South Corea</i>		
10:30 - 12:00 pm	<b>Upper Respiratory Tract Allergies</b> <i>Chairs: Philippe Gevaert (Belgium), Luo Zhang (China)</i>		
10:30 - 10:50 pm	<b>Latest updates on upper respiratory tract allergies</b> <i>Philippe GEVAERT (Belgium)</i>		
10:50 OC 66 JM	Phenotypes of allergic rhinitis: the application of stratified and personalized medicine in the rhinitis field <i>Irina Shchurok - Novicau, Vitebsk - Belarus</i>		
11:04 OC 67 JM	What did the doctor say? Patients' comprehension of allergy consultations in a French university hospital <i>Marcin Trzmielowski - Lerass-Ceric, University of Paul-Valéry Montpellier 3 and Montpellier University Hospital - France</i>		



## Upper Respiratory Tract Allergies (continued)

11:18 OC 68

Dupilumab Improves Upper and Lower Airway Outcome Measures in Patients With CRSwNP With NSAID-ERD: Pooled Results From the SINUS-24 and SINUS-52 Phase 3 Trials

Giorgio Walter Canonica - Humanitas University - Italy

11:32 OC 69

Evaluation of Chinese medicine- Kampo for allergic rhinitis induce by pollen, using an environmental challenge chamber

Yoshitaka Okamoto - Chiba University - Japan

11:46 OC 70

Adequacy of symptom control drives health-related quality of life in children with allergic rhinitis: Australian observational data

Michael Abramson - Monash University, Victoria - Australia

10:30 - 12:00 pm

## Asthma Biology

*Chair: Helena Catharine Aegerter (Belgium), Anahi Yanez (Argentina), Zeinab Awad El-Sayed (Egypt)*

Forum 5 (Level -2)

10:30 - 10:50 am

### Understanding the pathophysiology of asthma

Helena Catharine AEGERTER (Belgium)

10:50 OC 71 JM

The role of polyprenol in overcoming steroid insensitivity in asthma

Ivans Sergejs Kuznecovs - Public Health Research Laboratory, Riga - Latvia

11:04 OC 72 JM

To study the role of T regulatory cells in developing asthma in a birth cohort of babies with family history of allergies

Amit Agarwal - Postgraduate Institute of Medical education and Research, Chandigarh - India

11:18 OC 73 JM

ADAM33 in Bulgarian children with severe asthma

Polina Shahid - Medical University, Sofia - Bulgaria

11:32 OC 74

Regulatory and Angiogenic Novel B cell Subsets

Mübeccel Akdis - Swiss Institute of Allergy and Asthma Research (SIAF) - Switzerland

11:46 OC 75

IL-17-producing Mucosal-Associated Invariant T (MAIT) cells are associated with worsening of symptoms in children with severe asthma

Maria Leite-de-Morales - Paris Descartes University Sorbonne Paris Cité - France

10:30 - 12:00 pm

## Sister Society Symposium: JSA

Immunology of Barrier Surfaces

Salon Prestige Gratte-Ciel (Level 2)

*Chairs: Ignacio J. Ansotegui (Spain), Motohiro Ebisawa (Japan)*

Dynamic homeostasis of epidermal sensory nerves and its breakdown caused by barrier dysfunction

Takaharu Okada (Japan)

Bringing mucosal mast cells over to our side to overcome allergy

Yosuke Kurashima (Japan)

Human type 2 innate lymphoid cells disrupt skin keratinocyte tight junction barrier by IL-13

Kazunari Sugita (Japan)



12:00 - 1:30 pm		PARALLEL SESSIONS			
		Mechanisms of Allergy	Microbiota and Allergy	Urticaria and Atopic Dermatitis	Sister Society Symposium: SLAai
		Forum 4 (Level -2)	Forum 5 (Level -2)	Amphithéâtre (Level 0)	Salon Prestige Gratte-Ciel (Level 2)
12:00 - 1:30 pm		<b>Mechanisms of Allergy</b> <i>Chairs: Marc Daëron (France), Erika Jensen-Jarolim (Austria)</i>			Forum 4 (Level -2)
		12:00 - 12:20 pm <b>Cross talk between allergic responses and cancer</b> <i>Erika JENSEN-JAROLIM (Austria)</i>			
		12:20 OC 76 A novel mechanism of IgE regulation by IgE-allergen complexes via CD23 <i>Monique Vogel - University of Bern - Switzerland</i>			
		12:34 OC 77 Optimal TH2A effector function requires local epithelial cytokine signaling <i>Erik Wambre - Benaroya Research Institute - USA</i>			
		12:48 OC 78 TGM2+ IFN-gamma secreting circulating innate lymphoid cell precursors (ILCPs) are enhanced in children with celiac disease <i>Giuseppe Ercolano - Department of Oncology UNIL CHUV and Ludwig Institute for Cancer Research, University of Lausanne - Switzerland</i>			
		1:02 OC 79 miR103a-3p in exosomes derived from human mast cells (MCs) following aggregation of FcεRI enhances IL-5 production from IL-33-stimulated type2 innate lymphoid cells (ILC2) via silencing protein arginine methyltransferase (PRMT) <i>Yoshimichi Okayama - Nihon University School of Medicine - Japan</i>			
		1:16 OC 80 Molecular diagnosis of skin allergy <i>Marine-Alexia Lefevre - Centre International de Recherche en Infectiologie (CIRI), Lyon - France</i>			
12:00 - 1:30 pm		<b>Microbiota and Allergy</b> <i>Chairs: Luis Caraballo (Colombia), Harald Renz (Germany)</i>			Forum 5 (Level -2)
		12:00 - 12:20 pm <b>Latest updates on microbiota and allergy interactions</b> <i>Harald RENZ (Germany)</i>			
		12:20 OC 81 The early life trajectory of infant gut microbiota and atopic asthma at 10 years-of-age in a US birth cohort <i>Christine Johnson - Henry Ford Health System - USA</i>			
		12:34 OC 82 Circulating neutrophil and eosinophil extracellular traps are markers of severe asthma <i>Vanessa Granger - APHP, Hôpital Bichat, Immunology, Paris - France</i>			
		12:48 OC 83 Circulating B cells upregulate antiviral response and carry viral particles after experimental rhinovirus infection of healthy and asthmatic subjects <i>Mübeccel Akdis - Swiss Institute of Allergy and Asthma Research (SIAF) - Switzerland</i>			
		1:02 OC 84 Modern urbanization has re-shaped the bacterial microbiome profiles of house dust in domestic environments <i>Weidong Wu - School of Public Health, Xinxiang Medical University - China</i>			

## Microbiota and Allergy (continued)

1:16 OC 85

Gut microbiota profile in infants with milk and/or egg allergy and evaluation of intestinal colonization and persistence of a probiotic mixture

*Maurizio Mennini - Division of Allergy, Bambino Gesù Children's Hospital IRCCS - Italy*

12:00 - 1:30 pm

## Urticaria and Atopic Dermatitis

*Chairs: Jonathan Bernstein (USA), Angèle Soria (France)*

Amphithéâtre (Level 0)

12:00 - 12:20 pm

### Latest updates on spontaneous chronic urticaria

*Angèle SORIA (France)*

12:20 OC 86 JM

Supporting the optimization of health-care pathways of and reduction of the burden of urticaria to patients and society: a systematic review

*Evangeline Clark - Montpellier University Hospital, Montpellier - France*

12:34 OC 87 JM

Dolichyl phosphate deficiency and polypropenol supplementation in the treatment of atopic dermatitis

*Galina Kuznecova - Public Health Research Laboratory, Riga - Latvia*

12:48 OC 88

Economic burden of chronic urticaria in Brazil: a one-year real life study

*Priscilla Santos - Hospital Universitário Pedro Ernesto/Universidade do Estado do Rio de Janeiro - Brazil*

1:02 OC 89 JM

The presentation of papular urticaria is not associated to mosquito exposure or sensitization

*Juan Lopez - Institute for Immunological Research, University of Cartagena - Colombia*

1:16 OC 90

Eosinophil count, serum CCL17/18/26 and immunoglobulin E levels in atopic dermatitis: upadacitinib phase 2 study analysis

*Emma Guttman-Yassky - Icahn School of Medicine at Mount Sinai - USA*

12:00 - 1:30 pm	<b>Sister Society Symposium: SLAAI</b> <i>Chairs: Sandra Gonzalez Diaz (Mexico), Anahí Yáñez (Argentina)</i>	
	Urticular Vasculitis <i>Mario Sanchez Borges (Venezuela)</i>	
	Atopic Dermatitis: cytokines and inflammation <i>Jose Antonio Ortega-Martell (Mexico)</i>	
	Biologics in Pediatrics: Atopic Dermatitis <i>Herberto Chong (Brazil)</i>	
1:30 - 2:00 pm	Coffee-Break and poster sessions + visit of the exhibit area	
2:00 - 3:30 pm	<b>PARALLEL SESSIONS</b> <b>Sister Society Symposium: APAAACI</b> <span style="float: right;">Forum 4 (Level -2)</span> <b>Sister Society Symposium: INTERASMA</b> <span style="float: right;">Forum 5 (Level -2)</span>	
2:00 - 3:30 pm	<b>Sister Society Symposium: APAAACI</b> <i>Changing environment, risk factors and the Allergy Epidemic</i> <span style="float: right;">Forum 4 (Level -2)</span> <i>A major challenge in the Asia Pacific</i> <i>Chairs: Ruby Pawankar (Japan), Luo Zhang (China)</i>  <i>Impact of O3 and autumn pollens on new allergic rhinitis sensitization and outpatient visits</i> <i>Yuan Zhang (China)</i> <i>Ambient CO2 concentration and increased risk of pollen allergy</i> <i>Jae Won Oh (Korea)</i> <i>Asian migration and allergy: Lessons from the Melbourne 2016 thunderstorm asthma event</i> <i>Jason Fok (Australia)</i>	
2:00 - 3:30 pm	<b>Sister Society Symposium: INTERASMA</b> <i>Current Considerations in Asthma Therapy</i> <span style="float: right;">Forum 5 (Level -2)</span> <i>Chairs: Mário Moraes-Almeida (Portugal), Jonathan Bernstein (USA)</i>  <i>Eosinophilic Asthma- New Consideration in Pathophysiology and Treatment</i> <i>Lawrence DuBuske (USA)</i> <i>Dust Mites and Asthma- Immune Effects Beyond Allergy</i> <i>Krzysztof Kowal (Poland)</i> <i>Genetic Polymorphisms in Asthma - Impact on Therapeutic Responses</i> <i>Yuriy Bisyuk (Ukraine)</i>	
3:30 pm	End of the conference	

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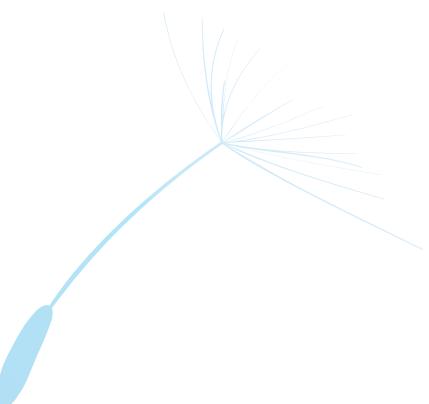
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# POSTERS SESSION

- Theme 1: ALLERGY DIAGNOSIS P. 26
- Theme 2: ALLERGY PREVENTION AND RISK FACTORS P. 29
- Theme 3: ANAPHYLAXIS P. 30
- Theme 4: ASTHMA P. 32
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- Theme 7: ENT AND OCULAR ALLERGY P. 41
- Theme 8: ENVIRONMENTAL ALLERGIES P. 44
- Theme 9: FOOD ALLERGY P. 45
- Theme 10: FUNCTIONAL GENOMICS AND PROTEOMICS / SYSTEMS BIOLOGY / PERSONALIZED MEDICINE P. 48
- Theme 11: IMMUNOLOGY P. 48
- Theme 12: IMMUNOTHERAPY AND BIOLOGICS P. 52

# POSTER PRESENTATIONS

## ● Theme 1: ALLERGY DIAGNOSIS

- P1** Evaluation of urinary volatilome in high level elite swimmers  
Maria João Vasconcelos<sup>1</sup>, João Cavaleiro Rufo<sup>2,3</sup>, Milton Severo<sup>3</sup>, Rita Moreira<sup>4</sup>, Mariana Couto<sup>5</sup>, Inês Paciência<sup>2,3,6</sup>, Mariana Farraia<sup>3</sup>, Luís Delgado<sup>1,2</sup>, Pedro Moreira<sup>4</sup>, André Moreira<sup>1,2,3</sup>, Diana Silva<sup>1,2</sup>  
<sup>1</sup>Serviço de Imunoalergologia, Centro Hospitalar Universitário de São João, EPE - Porto (Portugal), <sup>2</sup>Basic and Clinical Immunology, Department of Pathology, Faculty of Medicine, University of Porto - Porto (Portugal), <sup>3</sup>EPIUnit – Instituto de Saúde Pública, Universidade do Porto - Porto (Portugal), <sup>4</sup>Faculty of Nutrition and Food Sciences, University of Porto - Porto (Portugal), <sup>5</sup>Imunoalergology, José de Mello Saúde - Porto (Portugal), <sup>6</sup>Institute of Science and Innovation in Mechanical Engineering and Industrial Management - Porto (Portugal)
- P2** Optimization of Allergen Panels for Diagnosis of Allergic Rhinitis  
Lee Jieun<sup>1</sup>, Oh Jeonghyun<sup>1</sup>  
College of Medicine Chosun University - Gwangju (Korea, Republic of)
- P3** Chronic Urticaria Associated with Schistosomiasis  
Abdullah Noormalin<sup>1,2</sup>  
<sup>1</sup>Institute for medical research - Kuala Lumpur (Malaysia), <sup>2</sup>Institute for medical research - Kuala Lumpur
- P4** A Surprising Discovery - Idiopathic Hypereosinophilic Syndrome  
Arfa Faiz<sup>1</sup>, Joseph Yusin<sup>1</sup>, Berj Demirjian<sup>1</sup>  
Greater Los Angeles VA - Los Angeles (United States)
- P5** Local cytokine profile as an effective inflammation control tool among patients, suffering from bronchial asthma and various allergic rhinitis phenotypes  
Natalia Tataurshchikova<sup>1</sup>, Pavel Berezhanskiy<sup>1</sup>  
RUDN University - Moscow (Russian Federation)
- P6** A new generation of high potency allergen bioparticles  
Guy Tropper<sup>1</sup>, Véronique Gomord<sup>1</sup>, Anne-Catherine Fitchette<sup>2</sup>, Virginie Stordeur<sup>2</sup>, Brian Ward<sup>3</sup>, Elizabeth Fixman<sup>3</sup>, Lorna Garnier<sup>4</sup>, Sébastien Viel<sup>4</sup>, Loïc Faye<sup>2</sup>, Louis-Philippe Vézina<sup>1</sup>  
<sup>1</sup>Angany Inc - Québec (Canada), <sup>2</sup>Angany Innovation SAS - Val De Reuil (France), <sup>3</sup>McGill University Health Center - Montréal (Canada), <sup>4</sup>CHU de Lyon - Lyon (France)
- P7** ImmunoCAT study: Study of the impact of molecular diagnosis by ImmunoCAP ISAC® 112 on allergen Immunotherapy prescription in Catalonia  
Teresa Garriga-Baraut<sup>1</sup>, Moisés Labrador-Horillo<sup>1</sup>, Giovanna Araujo<sup>2</sup>, Miguel A. Baltasar-Dragó<sup>3</sup>, María Basagaña-Torrento<sup>4</sup>, Núria Campa-Falcon<sup>5</sup>, Núria Cortés<sup>6</sup>, Concepción De Linares<sup>7</sup>, Olga Esteso-Hontoria<sup>8</sup>, Laia Ferré-Ybarz<sup>9</sup>, Vanesa Gázquez-García<sup>10</sup>, Sira Miquel<sup>11</sup>, Clara Padró-Casas<sup>11</sup>, Carlos Pedemonte<sup>12</sup>, Marta Viñas<sup>13</sup>, Oscar Asensio<sup>14</sup>, Joan Bartra<sup>15</sup>, Jordina Belmonte<sup>7</sup>, Irina Bobolea<sup>15</sup>, Lidia Farrarons<sup>9</sup>, Rosa Muñoz-Cano<sup>15</sup>, Esperanza Raga<sup>16</sup>, María del Mar San Miguel Moncín<sup>17</sup>  
<sup>1</sup>Md, PhD, Vall d'Hebron Hospital - Barcelona (Spain), <sup>2</sup>Md, Clínic Hospital - Barcelona (Spain), <sup>3</sup>Md, PhD, Verge de la Cinta de Tortosa Hospital - Tortosa (Spain), <sup>4</sup>Md, PhD, Germans Trias i Pujoll, Hospital - Badalona (Spain), <sup>5</sup>Md, Parc Taulí Hospital - Sabadell (Spain), <sup>6</sup>Md, PhD, Mútua de Terrassa Hospital - Terrassa (Spain), <sup>7</sup>Md, PhD, Universitat Autònoma de Barcelona - Bellaterra (Spain), <sup>8</sup>Md, PhD, Hospital General de Catalunya - Sant Cugat (Spain), <sup>9</sup>Md, PhD, Fundació Althaia Hospital - Manresa (Spain), <sup>10</sup>Md, PhD, Joan XXIII Hospital - Tarragona (Spain), <sup>11</sup>Md, Germans Trias i Pujol Hospital - Badalona (Spain), <sup>12</sup>Md, PhD, Hospital de Nens de Barcelona - Barcelona (Spain), <sup>13</sup>Md, PhD, Terrassa Hospital - Terrassa (Spain), <sup>14</sup>Md, PhD, Parc Taulí Hospital - Sabadell (Spain), <sup>15</sup>Md, PhD, Clínic Hospital - Barcelona (Spain), <sup>16</sup>Md, PhD, Centro Médico Teknon - Barcelona (Spain), <sup>17</sup>Md, PhD, Valls Hospital - Valls (Spain)
- P8** Sensitization to Common aeroallergens in adults with allergic respiratory diseases at the allergy outpatient clinics: A Multicenter Study  
Janet Yamyamin<sup>1</sup>  
Fe del Mundo Medical Center - Davao City (Philippines)
- P9** Assessment of severity of chronic urticaria and quality of life among Filipino adolescents ages 10-21 years old using Urticaria Severity Score  
Romelyn Sy<sup>1</sup>  
Fe Del Mundo Medical Center - Quezon City (Philippines)

# POSTER PRESENTATIONS

- Theme 1: ALLERGY DIAGNOSIS (continued)

- P10** Comparison of three multiplex arrays in ten patients from Southern France  
Caroline Klingebiel<sup>1</sup>, Céline Chartier<sup>2</sup>, Nardjes Amri<sup>1</sup>, Simon Pinchemel<sup>2</sup>, Patricia Blanchard<sup>2</sup>, Wahib Belhocine<sup>1</sup>, Moise Michel<sup>2</sup>, Joana Vitte<sup>2</sup>  
<sup>1</sup>Synlab Provence - Marseille (France), <sup>2</sup>Aix-Marseille Univ, APHM, MEPHI, IHU Méditerranée Infection - Marseille (France)
- P11** Quality assurance in allergy diagnosis: position statement of the French society AllergoBioNet  
Julien Goret<sup>1</sup>, Anne Sarrat<sup>1</sup>, Lorna Garnier<sup>2</sup>, Angélique Grenier<sup>3</sup>, Joana Vitte<sup>4</sup>  
<sup>1</sup>Laboratoire d'Immunologie et Immunogénétique, Hôpital Pellegrin, CHU Bordeaux - Bordeaux (France), <sup>2</sup>Laboratoire d'Immunologie, CHU Lyon - Lyon (France), <sup>3</sup>Centre Hospitalier Intercommunal R. Ballanger - Aulnay-sous-Bois (France), <sup>4</sup>IHU Méditerranée Infection - Marseille (France)
- P12** Child of Steel  
Edwin Sochayseng<sup>1,2</sup>  
<sup>1</sup>Fe Del Mundo Medical Center - Quezon City (Philippines), <sup>2</sup>University of Perpetual Help - Dr. Jose G. Tamayo Medical Center - Binan (Philippines)
- P13** Characterization of the Lung function in patient with allergic rhinitis without asthma. University Hospital "Calixto Garcia", 2017 to 2018  
Lisdeivis Medina Reyes<sup>1</sup>, José Severino Rodríguez Canosa<sup>2</sup>, Fidel Ramón Rodríguez Cala<sup>2</sup>  
<sup>1</sup>University hospital "Calixto García" - Mayabeque (Cuba), <sup>2</sup>University hospital "Calixto García" - La Habana (Cuba)
- P14** Spirulina Allergy: A Case history of two patients  
Peter Pimblett<sup>1</sup>  
MFT - M13 9wl (United Kingdom)
- P15** Kimura's disease affecting multiple body parts in a 57-year-old female patient: A case report  
Sun Baoqing<sup>1</sup>, Huang Zhifeng<sup>1</sup>, Luo Wenting<sup>1</sup>  
Department of Allergy and Clinical Immunology, First Affiliated Hospital of Guangzhou Medical University - Guangzhou (China)
- P16** Specific IgE Levels as an Important Diagnostic Marker for the Diagnosis of Children with Allergic Bronchopulmonary Aspergillosis  
Meenu Singh<sup>1</sup>, Anil Chauhan<sup>1</sup>, Manvi Singh<sup>1</sup>  
Postgraduate Institute of Medical Education and Research - Chandigarh (India)
- P17** Feasibility and Accuracy of Tele-Spirometry: A Community Based Approach  
Munish Kumar<sup>1</sup>, Amit Agarwal<sup>1</sup>, Manvi Singh<sup>1</sup>, Meenu Singh<sup>1</sup>  
Postgraduate Institute of Medical Education and Research - Chandigarh (India)
- P18** Application of Molecular Allergology in Respiratory and Food Allergies in a Mediterranean country  
Carla Irani<sup>1</sup>, Marilyn Karam<sup>2</sup>  
<sup>1</sup>Hotel Dieu de France, St Joseph University - Beirut (Lebanon), <sup>2</sup>American University of Beirut - Beirut (Lebanon)
- P19** A diagnostic tool to help allergists in children food allergy  
Ariane Nemni<sup>1</sup>, Tamazoust Guiddir<sup>2</sup>, Patricia Thome<sup>1</sup>, Carine Billard<sup>1,3</sup>  
<sup>1</sup>Robert Ballanger Hospital - Aulnay Sous Bois (France), <sup>2</sup>Bicêtre Hospital - Kremlin Bicêtre (France), <sup>3</sup>Meaux Hospital - Meaux (France)
- P20** A software for screening Allergic rhinitis, asthma, and rhinosinusitis  
Praewpitcha Larpsomsit<sup>1</sup>, Jidapa Watjananarut<sup>1</sup>, Apisit Apichitkul<sup>1</sup>  
Thammasat University - Pathumtani (Thailand)
- P21** Monocyte Chemoattractant Protein 1 as possible biomarker in the gastrointestinal phenotype of cow's milk allergy  
Ana Alonso-Larruga<sup>1</sup>, Paloma Poza-Guedes<sup>2</sup>, Yvelise Barrios<sup>3</sup>, Andrés Franco<sup>3</sup>, Ruperto Gonzalez-Perez<sup>2</sup>, Inmaculada Sanchez-Machín<sup>2</sup>, Cristina Alava-Cruz<sup>2</sup>, Victor Matheu<sup>2</sup>  
<sup>1</sup>Biochemistry, Hospital Universitario de Canarias - San Cristobal De La Laguna (Spain), <sup>2</sup>Allergy, Hospital Universitario de Canarias - San Cristobal De La Laguna (Spain), <sup>3</sup>Immunology, Hospital Universitario de Canarias - San Cristobal De La Laguna (Spain)

# POSTER PRESENTATIONS

- Theme 1: ALLERGY DIAGNOSIS (continued)

- P22** Adaption of IFAAM guidelines for food allergy diagnosis in clinical trials: a novel diagnostic algorithm  
Maeve Kelleher<sup>1</sup>, Nicola Jay<sup>2</sup>, Michael Perkin<sup>3</sup>, Rachel Haines<sup>4</sup>, Rebecca Batt<sup>5</sup>, Lucy Bradshaw<sup>4</sup>, Alan Montgomery<sup>4</sup>, Joanne Chalmers<sup>6</sup>, Hywel Williams<sup>6</sup>, Robert Boyle<sup>1,6</sup>  
<sup>1</sup>Dept of Medicine, Section of Paediatrics, Imperial College London - London (United Kingdom), <sup>2</sup>Children's Allergy Dept. Sheffield Children's NHS Foundation Trust - Sheffield (United Kingdom), <sup>3</sup>Population Health Research Institute, St George's University of London - London (United Kingdom), <sup>4</sup>Nottingham Clinical Trials Unit, University of Nottingham - Nottingham (United Kingdom), <sup>5</sup>Childrens Allergy Service, Guys & St Thomas NHS Foundation Trust - London (United Kingdom), <sup>6</sup>Centre of Evidence Based Dermatology, University of Nottingham - Nottingham (United Kingdom)
- P23** Non-invasive diagnosis of contact dermatitis by in vivo imaging  
Marine-Alexia Lefevre<sup>1,2</sup>, Jean-Luc Perrot<sup>2</sup>, Pierre Seroul<sup>3</sup>, Jean-François Nicolas<sup>1,4</sup>, Marc Vocanson<sup>1</sup>, Audrey Nosbaum<sup>1,4</sup>  
<sup>1</sup>Centre International de Recherche en Infectiologie (CIRI) - Lyon (France), <sup>2</sup>Department of dermatology, St Etienne university hospital - Saint Etienne (France), <sup>3</sup>Newtone Technologies - Lyon (France), <sup>4</sup>Department of allergology and clinical immunology, Lyon Sud university hospital - Lyon (France)
- P24** Allergenic sensitization to pollen extracts in patients with allergic rhinitis and asthma. University hospital "Calixto Garcia" 2018  
Belkis López González<sup>1</sup>, Jorge Torres Concepción<sup>2</sup>, Teresa Irene Rojas Flores<sup>3</sup>, Mirta Álvarez Castelló<sup>1</sup>, Yaquelín Leyva Márquez<sup>1</sup>  
<sup>1</sup>University Hospital "Calixto García" - Havana (Cuba), <sup>2</sup>University Polyclinic "Lidia y Clodomira" - Havana (Cuba), <sup>3</sup>Havana University - Havana (Cuba)
- P25** Detection of Anti-Sperm Antibodies and Complement 5a (C5a) in Iraqi Males of Primary Infertility  
Al-Jebouri Mohemid<sup>1</sup>, Salih Mdish<sup>1</sup>  
College of Medicine, University of Tikrit - Tikrit (Iraq)
- P26** Importance of aeroallergen patch testing in a large clinical population of patients with suspected aeroallergen-triggered dermatitis  
Heinrich Dickel<sup>1</sup>, Lea Kuhlmann<sup>1</sup>, Johannes Geier<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Venereology and Allergology, Ruhr University Bochum - Bochum (Germany), <sup>2</sup>Information Network of Departments of Dermatology (IVDK), University Medical Center Göttingen - Göttingen (Germany)
- P27** Comparison of inhalant allergen sensitization in children, adolescents and adults with asthma and allergic rhinitis  
Gil-Soon Choi<sup>1</sup>, Hee-Kyoo Kim<sup>1</sup>, Jae-Hwan Kwon<sup>2</sup>  
<sup>1</sup>Dept. of Internal Medicine, Kosin University College of Medicine - Busan (Korea, Republic of), <sup>2</sup>Dept. of Otolaryngology, Head-Neck Surgery, Kosin University Gospel Hospital - Busan (Korea, Republic of)
- P28** Allergic diseases hospitalization in an adolescent ward in a municipal hospital in Rio de Janeiro/Brazil  
Tavares Davisson<sup>1</sup>, Priscilla Filippo<sup>1</sup>, Jessica Pinha<sup>1</sup>, Juliana Almeida<sup>1</sup>, Alexandre Castiglione<sup>1</sup>, Silvia Montesanto<sup>1</sup>  
Hospital Municipal Jesus - Rio De Janeiro (Brazil)
- P29** Prick Test and nasal mycobacteria in Cuban patients with respiratory allergies. A present relationship  
Jose Severino Rodriguez Canosa<sup>1</sup>, Omar Herrera Barrios<sup>1</sup>, Ileana Panque Rodriguez<sup>2</sup>, Mercedes Jimenez Martinez<sup>1</sup>  
<sup>1</sup>Allergy Medical - La Havana (Cuba), <sup>2</sup>Bachelor of Microbiology - La Havana (Cuba)
- P30** Molecular Sensitization Profil of Asthmatic Children in Equatorial Africa  
Gabrielle Pauli<sup>1</sup>, Carole Wurmser-Danion<sup>1</sup>, Antoine Roos<sup>1</sup>, Cosme Kokou<sup>2</sup>, Huey-Jy Huang<sup>3</sup>, Christian Lupinek<sup>3</sup>, Josefina Zakzuk<sup>4</sup>, Caraballo Luis<sup>4</sup>, Vrtala Susanne<sup>3</sup>, Valenta Rudolf<sup>3</sup>  
<sup>1</sup>Faculty of medicine - Strasbourg (France), <sup>2</sup>Lambarene hospital - Lambaréne (Gabon), <sup>3</sup>Division of Immunopathology, Department of Pathophysiology and Allergy Research, Center for Pathophysiology, Infectiology and Immunology, Medical University of Vienna - Vienna (Austria), <sup>4</sup>Institute for Immunological Research, Universidad de Cartagena - Cartagena (Colombia)

# POSTER PRESENTATIONS

## • Theme 2: ALLERGY PREVENTION AND RISK FACTORS

### P31 Occupational risk of drug allergy in a nurse: A case report

Amira Omrane <sup>1,2</sup>, Chayma Harrathi <sup>1</sup>, Imen Jammeli <sup>3</sup>, Olfa Jelassi <sup>1</sup>, Taoufik Khalfallah <sup>1,2</sup>, Lamia Bouzgarrou <sup>1,2</sup>

<sup>1</sup>Department of occupational medicine and ergonomics, Faculty of medicine of Monastir - Monastir (Tunisia), <sup>2</sup>Department of occupational medicine, University Hospital of Tahar Sfar Mahdia - Mahdia (Tunisia), <sup>3</sup>Department of occupational medicine, University Hospital of Tahar Sfar Mahdia - Mahdia (Tunisia)

### P32 Indoor conditions associated with allergy sensitization in pediatric patients with atopic diseases

John Zambrano-Haboud <sup>1</sup>, Robertino Mera <sup>2</sup>

<sup>1</sup>Universidad Católica Santiago de Guayaquil - Guayaquil (Ecuador), <sup>2</sup>Gilead Sciences - Foster City (United States)

### P33 The values of specific IgG4 antibodies in the various form of initial schedule of subcutaneous allergen immunotherapy administration

Mojmír Racanský <sup>1</sup>, Jaromír Bystron <sup>1</sup>, Beata Hutyrová <sup>1</sup>

Dept. of Allergology and Clinical Immunology, University Hospital Olomouc, Faculty of Medicine and Dentistry, Palacký University, Olomouc, Czech Republic - Olomouc (Czech Republic)

### P34 Food allergy and mass catering: How to better accommodate allergic school children? Taking stock of an experience conducted in Franche-Comté region, France

Laetitia Pellicer-Garcia <sup>1,2</sup>, Angélique Doc <sup>1</sup>, Emilie Capelli <sup>3</sup>, Jean-Charles Dolphin <sup>1,2</sup>, Pauline Roux <sup>1,2</sup>, Jean-Marc Rame <sup>1,2</sup>

<sup>1</sup>University Hospital - Besançon (France), <sup>2</sup>Réseau d'Allergologie de Franche-comté (RAFT) - Besançon (France), <sup>3</sup>Doubs Department - Besançon (France)

### P35 Linking the westernised oropharyngeal microbiome to the innate and adaptive immune response in Chinese immigrants

Jing Guo <sup>1,2</sup>, Xiaoping Zhang <sup>3</sup>, Aarti Saiganesh <sup>4</sup>, Christopher Peacock <sup>4,5</sup>, Emilija Filipovska-Naumovska <sup>6</sup>, Shu Chen <sup>1</sup>, Siew-Kim Khoo <sup>4,6</sup>, Gary Dykes <sup>1</sup>, Belinda Hales <sup>4</sup>, Peter Le Souëf <sup>4,6</sup>, Guicheng(Brad) Zhang <sup>1,2</sup>

<sup>1</sup>School of Public Health, Curtin University - Perth (Australia), <sup>2</sup>Centre for Genetic Origins of Health and Disease, Faculty of Health Sciences, Curtin University of Technology, Faculty of Health and Medical Sciences, The University of Western Australia, and Royal Perth Hospital Medical Research Foundation - Perth (Australia), <sup>3</sup>China National Bamboo Research Centre, Key Laboratory of Resources and Utilization of Bamboo of State Forestry Administration - Hangzhou (China), <sup>4</sup>Telethon Kids Institute, The University of Western Australia - Perth (Australia), <sup>5</sup>Marshall Centre for Infectious Disease, School of Pathology and Laboratory Medicine, The University of Western Australia, - Perth (Australia), <sup>6</sup>Division of Cardiovascular and Respiratory Sciences, The University of Western Australia - Perth (Australia)

### P36 Increased nasal Streptococcus pneumoniae presence in Western environment associated with atopic eczema in Chinese immigrants

Michelle Schwager <sup>1,2</sup>, Yong Song <sup>1,2</sup>, Aarti Saiganesh <sup>3,4</sup>, Jing Guo <sup>1,2</sup>, Ingrid Laing <sup>3,5</sup>, Peter Le Souëf <sup>3,4</sup>, Guicheng Zhang <sup>1,2,3</sup>

<sup>1</sup>School of Public Health, Curtin University - Perth, Western Australia (Australia), <sup>2</sup>Centre for Genetic Origins of Health and Disease, Faculty of Health Sciences, Curtin University, Faculty of Health and Medical Sciences, The University of Western Australia, and Royal Perth Hospital Medical Research Foundation - Perth, Western Australia (Australia), <sup>3</sup>Telethon Kids Institute, The University of Western Australia - Perth, Western Australia (Australia), <sup>4</sup>Division of Paediatrics, School of Medicine, The University of Western Australia - Perth, Western Australia (Australia), <sup>5</sup>Division of Cardiovascular and Respiratory Sciences, The University of Western Australia - Perth, Western Australia (Australia)

### P37 Vitamin D and Allergy Disorders

Revaz Sepiashvili <sup>1</sup>, Manana Chikhladze <sup>2</sup>, Sophio Gamkrelidze <sup>3</sup>

<sup>1</sup>Peoples Friendship University of Russia (RUDN University) - Moscow (Russian Federation), <sup>2</sup>National Institute of Allergology,Asthma and Clinical Immunology of National Academy of Sciences - Tskhaltubo (Georgia), <sup>3</sup>Akaki Tsereteli State University, faculty of Medicine, - Kutaisi (Georgia)

### P38 Impact of the use of dust mite covers manufactured with ISO 13485 certified processus on the quality of life of allergic patients - A follow-up study carried out for 52 patients

Clara Martin <sup>1</sup>, Laurent Salles <sup>1</sup>, Thierry Porée <sup>1</sup>

Laboratoire OptimHal-ProtecSom - Valognes (France)

# POSTER PRESENTATIONS

## ● Theme 2: ALLERGY PREVENTION AND RISK FACTORS (continued)

- P39** A New Trend in Sensitization to Cockroach Allergen: A Cross-Sectional Study of Indoor Allergens and Food Allergens in the Inland Region of Southwest China  
Wenting Luo<sup>1</sup>, Baoqing Sun<sup>1</sup>  
Guangzhou Institute of Respiratory Health, State Key Laboratory of Respiratory Disease, National Clinical Research Center for Respiratory Disease Respiratory, Department of Allergy and Clinical Immunology, The First Affiliated Hospital of Guangzhou Medical University - Guangzhou (Hong Kong)
- P40** Prospective assessment of vaccine prophylaxis in patients with chronic obstructive pulmonary disease  
Vladimir Antonov<sup>1</sup>, Galina Ignatova<sup>1</sup>  
South Ural State Medical University - Chelyabinsk (Russian Federation)
- P41** Phenological phases of pollination and climate change  
Michel Thibaudon<sup>1</sup>, Charlotte Sintt<sup>1</sup>, Gilles Oliver<sup>1</sup>, Samuel Monnier<sup>1</sup>, Jean-Pierre Besancenot<sup>1</sup>  
RNSA - Brussieu (France)
- P42** Validation of modelled pollen data on a smartphone app by measured pollen data from pollen sensors  
Michel Thibaudon<sup>1</sup>, Jean-Pierre Besancenot<sup>1</sup>, Samuel Monnier<sup>1</sup>  
RNSA - Brussieu (France)
- P43** IRS (International Ragweed Society), an international tool to help Ambrosia management  
Michel Thibaudon<sup>1</sup>, Roberto Albertini<sup>2</sup>, Maira Bonini<sup>3</sup>, Sevcana Celenk<sup>4</sup>, Sandra Citterio<sup>5</sup>, Lazlo Makra<sup>6</sup>, Gilles Oliver<sup>7</sup>, Olivier Pechamat<sup>8</sup>, Uwe Starfinger<sup>9</sup>  
<sup>1</sup>RNSA/IRS - Brussieu (France), <sup>2</sup>University - Parma (Italy), <sup>3</sup>Agenzia di Tutela della Salute della Città Metropolitana di Milano - Milano (Italy), <sup>4</sup>Uludag University - Bursa (Turkey), <sup>5</sup>University - Milan (Italy), <sup>6</sup>University - Szeged, (Hungary), <sup>7</sup>RNSA - Brussieu (France), <sup>8</sup>FREDON France - Paris (France), <sup>9</sup>Julius Kuehn Institute - Braunschweig (Germany)
- P44** Association on serum heavy metal concentration with atopic dermatitis, allergic rhinitis, asthma, atopic multimorbidity, and pulmonary function  
Dong Keon Yon<sup>1</sup>, Hyun Yong Koh<sup>2</sup>, Jaewoo An<sup>1</sup>, Man Yong Han<sup>1</sup>  
<sup>1</sup>Department of Pediatrics, CHA Bundang Medical Center, CHA University School of Medicine - Seongnam (Korea, Republic of), <sup>2</sup>Graduate School of Medical Science and Engineering, Korea Advanced Institute of Science and Technology - Daejeon (Korea, Republic of)
- P44bis** Asthma and allergic rhinitis - what adolescents think about?  
Ivana Filipovic<sup>1</sup>, Marco Caminati<sup>2,3</sup>, Zorica Zivkovic<sup>4,5,6</sup>, Gianenrico Senna<sup>2</sup>  
<sup>1</sup>University of Belgrade - Belgrade (Serbia), <sup>2</sup>Asthma Center and Allergy Unit, Verona University Hospital - Verona (Italy), <sup>3</sup>Allergy and Clinical Immunology School, University of Verona - Verona (Italy), <sup>4</sup>Children's Hospital for Lung Diseases and Tuberculosis, Medical Center "Dr Dragisa Misovic" - Belgrade (Serbia), <sup>5</sup>Faculty of Pharmacy Novi Sad, Business Academy, Novi Sad, Serbia - Novi Sad (Serbia), <sup>6</sup>Faculty of Pharmacy Novi Sad, Business Academy, Novi Sad, Serbia - Novi Sad (Serbia)

## ● Theme 3: ANAPHYLAXIS

- P45** 119 rescue team's awareness regarding anaphylaxis and asthma exacerbation In Gyeonggi-do province of Korea: Before and after education  
Bomi Seo<sup>1,2</sup>, So-Hee Lee<sup>3,4</sup>, Seon Hwa Lee<sup>2</sup>, Sae-Hoon Kim<sup>1,2,4</sup>, Sun-Sin Kim<sup>3,4</sup>, Sang-Heon Cho<sup>4</sup>, Yoon-Seok Chang<sup>1,2,4</sup>  
<sup>1</sup>Division of Allergy and Clinical immunology, Seoul National University Bundang Hospital - Seongnam (Korea, Republic of), <sup>2</sup>Gyeonggi-do Atopy-Asthma Education Information Center - Seongnam (Korea, Republic of), <sup>3</sup>Department of Internal Medicine, Seoul National University Hospital Healthcare System Gangnam Center - Seoul (Korea, Republic of), <sup>4</sup>Department of Internal Medicine, Seoul National University College of Medicine - Seoul (Korea, Republic of)
- P46** Level of knowledge of hospital staff regarding anaphylaxis: a multicenter study  
Edwin Sochayseng<sup>1,2</sup>  
<sup>1</sup>Fe Del Mundo Medical Center - Quezon City (Philippines), <sup>2</sup>University of Perpetual Help - Dr. Jose G. Tamayo Medical Center - Binan (Philippines)

# POSTER PRESENTATIONS

- Theme 3: ANAPHYLAXIS (continued)

**P47** A call for implementations of allergy training in medical schools in Poland

Anna Zabicka<sup>1</sup>, Lucianna Tanno<sup>2</sup>

<sup>1</sup>Medical University' Piastów Ślaskich', Wrocław, Poland Department of Medicine, wyb. Ludwika Pasteura 1, 50-367 Wrocław, Poland - Wrocław (Poland), <sup>2</sup>University Hospital of Montpellier, Montpellier, France, <sup>3</sup>Sorbonne Université, INSERM UMR-S 1136, IPLESP, Equipe EPAR, 75013, Paris, France - Montpellier (France)

**P48** Anaphylaxis to a 'superfood'

James Laffan<sup>1</sup>, Vasantha Nagendran<sup>2</sup>

<sup>1</sup>Epsom and St Helier University Hospital, London (United Kingdom), <sup>2</sup>Epsom and St Helier University Hospital, St George's, University of London. - London (United Kingdom)

**P49** HAAAE: warning signals for hereditary angioedema diagnosis

Pedro Giavina-Bianchi<sup>1</sup>, Priscila Takejima<sup>1</sup>, Allyne Moura Fé e Sousa Araújo<sup>1</sup>, Mara Huffenbaecher Giavina-Bianchi<sup>1</sup>, Ana Júlia Ribeiro<sup>1</sup>, Marcelo Vivolo Aun<sup>1</sup>, Jorge Kalil<sup>1</sup>  
Universidade de São Paulo - São Paulo (Brazil)

**P50** Pseudo-anaphylaxis to PEGylated nanomedicines in a porcine model

Janos Szebeni<sup>1</sup>, Gergely Kozma<sup>1</sup>, Tamas Meszaros<sup>1</sup>, Rudolf Urbanics<sup>1</sup>  
SeroScience Ltd - Budapest (Hungary)

**P51** A Red Alert

Jie Shen Fok<sup>1,2</sup>

<sup>1</sup>Department of Respiratory Medicine, Box Hill Hospital - Box Hill (Australia), <sup>2</sup>Eastern Health Clinical School, Monash University - Box Hill (Australia)

**P52** An IgG- and neutrophil-dependent pathway of anaphylaxis induction in humans: results from the multicentric NASA study

Friederike Jönsson<sup>1</sup>, Luc De Chaisemartin<sup>2,3</sup>, Vanessa Granger<sup>2,3</sup>, Caitlin Gillis<sup>1</sup>, Aurélie Gouel-Chéron<sup>1,4</sup>, Qianqian Zhu<sup>1</sup>, Catherine Neukirch<sup>5,6</sup>, Fadia Dib<sup>7,8</sup>, Pascale Nicaise-Roland<sup>2,6</sup>, Dan Longrois<sup>4,9</sup>, Florence Tubach<sup>10</sup>, Pierre Bruhns<sup>1</sup>, Sylvie Chollet-Martin<sup>2,3</sup> - Nasa Study Group<sup>11</sup>

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**P53** Neutrophil activation by immune complexes in vitro: a model for IgG-mediated anaphylaxis

Vanessa Granger<sup>1,2</sup>, Friederike Jönsson<sup>3</sup>, Benoît Noël<sup>2</sup>, Doumet Helou<sup>2</sup>, Sylvie Chollet-Martin<sup>1,2</sup>, Luc De Chaisemartin<sup>1,2</sup>

<sup>1</sup>APHP, Hôpital Bichat, UF Auto-immunité et Hypersensibilités, HUPNVS - Paris (France), <sup>2</sup>Inflammation Chimiokines et Immunopathologie, INSERM, Fac. de Pharmacie, Univ. Paris-Sud, Univ. Paris-Saclay - Châtenay-Malabry (France), <sup>3</sup>Institut Pasteur, Département Immunologie, Unité Anticorps en Thérapie et Pathologie - Paris (France)

**P54** Risk of anaphylaxis in adult patients with systemic mastocytosis preceded by urticaria pigmentosa. Report of three cases

Polliana Mihaela Leru<sup>1,2</sup>, Viola Maria Popov<sup>1</sup>, Daniela Georgescu<sup>1</sup>, Vlad Florin Anton<sup>1</sup>

<sup>1</sup>Colentina Clinical Hospital - Bucharest (Romania), <sup>2</sup>Carol Davila University of Medicine and Pharmacy - Bucharest (Romania)

**P55** Inaugural and Fatal Anaphylaxis to Wasp Venom

Catharina Chatain<sup>1</sup>, Nicholas Sedillot<sup>2</sup>, Martine Pernollet<sup>3</sup>, Jean-Pierre Jacquier<sup>1</sup>, Isabelle Boocon-Gibod<sup>4</sup>, Laurence Bouillet<sup>4</sup>, Pauline Pralong<sup>1</sup>, Marie-Thérèse Leccia<sup>1</sup>

<sup>1</sup>Department of Dermatology, Allergology and Photobiology, University Hospital of Grenoble - Grenoble (France), <sup>2</sup>Intensive Care Unit, University Hospital of Grenoble - Grenoble (France), <sup>3</sup>Institute of Biology and Pathology, Laboratory of Immunology, University Hospital of Grenoble - Grenoble (France), <sup>4</sup>Department of Internal Medicine, University Hospital of Grenoble - Grenoble (France)

# POSTER PRESENTATIONS

- Theme 4: ASTHMA

**P56** Sublingual Immunotherapy for treating Allergic Rhinitis with Asthma induced by house dust mites

Noureen<sup>1</sup>, Shahid Abbas<sup>1</sup>

PAAIS - Rawalpindi (Pakistan)

**P57** Activation of JAK/STAT6 upregulates Sonic hedgehog expression to promote allergic airway epithelial remodeling

Wang Xiangzhi<sup>1</sup>, Tang Lanfang<sup>1</sup>

Zhejiang University School of Medicine - Hangzhou (China)

**P58** Physician's experience on managing asthma in adolescents: results of the international "AMADO" survey

Kevin Chong-Fah-Shen<sup>1</sup>, Roxana Bumbacea<sup>2</sup>, Cintia Bassani<sup>3</sup>, Cesar Fireth Pozo Beltran<sup>4</sup>, Duy Le Pham<sup>5</sup>, Sebastien Lefevre<sup>6</sup>, Elena Brandatan<sup>7</sup>, Maria João Vasconcelos<sup>8</sup>, Raquel Baldaçara<sup>9</sup>, Silvana Monsell<sup>10</sup>, Ivana Djuric-Filipovic<sup>11</sup>, Guillaume Pouessel<sup>12</sup>, Alexei Gonzalez-Estrada<sup>13</sup>, Marco Caminati<sup>14</sup>, Luciana Kase Tanno<sup>15</sup>

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**P59** Effects of weather and air pollutants on asthma hospitalization in the southeast region of Korea

Eun-Jung Jo<sup>1</sup>, Yewon Kang<sup>1</sup>, Chang-Hoon Kim<sup>1</sup>, Hye-Kyung Park<sup>1</sup>

Pusan National University - Busan (Korea, Republic of)

**P60** Serum Cytokines and Treatment Response in Atopic and Non-atopic Eosinophilic Asthmatics

Jamille Fernandes<sup>1,2</sup>, Luciana Cardoso<sup>3</sup>, Tássia Milenna Souza<sup>1,2</sup>, Divya Mohan<sup>4</sup>, Rafael Alfonso<sup>4</sup>, Stewart Bates<sup>5</sup>, Norma Vilany Carneiro<sup>3</sup>, Giovana Coletto<sup>1</sup>, Camila A. Figueiredo<sup>3</sup>, Álvaro A. Cruz<sup>2,3</sup>

<sup>1</sup>Universidade Federal do Oeste da Bahia - Barreiras (Brazil), <sup>2</sup>Fundação ProAR - Salvador (Brazil), <sup>3</sup>Universidade Federal da Bahia - Salvador (Brazil), <sup>4</sup>VEO, R&D, GSK - Collegeville, Pennsylvania (United States), <sup>5</sup>R&D, GSK - Stevenage (United Kingdom)

**P61** Rhinitis and eosinophilic inflammation are prevalent in both allergic and non-allergic asthma

Pedro Giavina-Bianchi<sup>1</sup>, Priscila Takejima<sup>1</sup>, Jorge Kalil<sup>1</sup>, Rosana Camara Agondi<sup>1</sup>

Universidade de São Paulo - São Paulo (Brazil)

**P62** Inhibition of Pannexin1 hemichannels in the airways epithelium reduces the characteristic inflammatory response in an asthmatic mouse model

Lilian Arzola Martinez<sup>1</sup>, Andrew J. Rasky<sup>2</sup>, Susan B. Morris<sup>2</sup>, Nick W. Lukacs<sup>2</sup>, Manuel Villalon<sup>1,3</sup>

<sup>1</sup>Pontificia Universidad Católica de Chile - Santiago De Chile (Chile), <sup>2</sup>University of Michigan - Ann Arbor (United States), <sup>3</sup>Institute on Immunology and Immunotherapy (P09/016-F). - Santiago De Chile (Chile)

**P63** Acid-suppressive medication, a possible risk factor for late-onset asthma

Yasuhiro Tomita<sup>1,2</sup>, Yuma Fukutomi<sup>2</sup>, Mari Irie<sup>3</sup>, Kazuhiro Azekawa<sup>4</sup>, Yoichi Nakamura<sup>5</sup>, Chihiro Okada<sup>6</sup>, Terufumi Shimoda<sup>7</sup>, Miku Sano<sup>1</sup>, Katsuyuki Kojima<sup>1</sup>, Yoshinori Hasegawa<sup>8</sup>, Masami Taniguchi<sup>2</sup>

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# POSTER PRESENTATIONS

- Theme 4: ASTHMA (continued)

- P64** Not all that wheezes is asthma: Distinguishing asthma from systemic sclerosis induced respiratory symptoms  
Elopy Sibanda<sup>1</sup>  
Asthma, Allergy and Immunology Clinic - Harare (Zimbabwe)
- P65** Every difficult to treat asthma should have her immunological status checked  
Polina Shahid<sup>1</sup>, Dimitrinka Miteva<sup>1</sup>, Penka Perenovska<sup>1</sup>, Vera Papochieva<sup>1</sup>, Bilyana Georgieva<sup>1</sup>, Elisaveta Naumova<sup>2</sup>, Guergana Petrova<sup>1</sup>  
<sup>1</sup>Medical University,Sofia, Pediatric clinic, University Hospital Alexandrovska - Sofia (Bulgaria), <sup>2</sup>Medical University,Sofia, Laboratory of Clinical Immunology, University Hospital "Alexandrovska" - Sofia (Bulgaria)
- P66** Assement of asthma risk in patients with allergic rhinitis  
Ioana Adriana Muntean<sup>1,2</sup>, Ioana Corina Bocsan<sup>1</sup>, Diana Mihaela Deleanu<sup>1</sup>  
<sup>1</sup>University of Medicine and Pharmacy Cluj Napoca - Cluj Napoca (Romania), <sup>2</sup>Regional Institute of Gastroenterology- Allergology Department - Cluj Napoca (Romania)
- P67** Prevalence of childhood asthma in Nigeria: A review of Recently Published Articles  
Abdullahi Hassan<sup>1</sup>, Mohammad Shehu Usman<sup>2</sup>  
<sup>1</sup>Scientific Research Unit, Federal Medical Centre - Keffi (Nigeria), <sup>2</sup>Ministry of Health and Human Services - Kaduna (Nigeria)
- P68** Disability secondary to allergic occupational asthma due to textile dust: a Tunisian study over eight years  
Lamia Bouzgarrou<sup>1</sup>, Amira Omrane<sup>1</sup>, Mohamed Adnene Henchi<sup>1</sup>, Salma Kammoun<sup>1</sup>, Ilhem Boussarssar<sup>2</sup>, Imen Kellala<sup>2</sup>, Adel Gaaliche<sup>2</sup>, Kamel Rjeb<sup>2</sup>  
<sup>1</sup>Department of occupational medicine and ergonomics, Faculty of medicine of Monastir - Monastir (Tunisia), <sup>2</sup>National Health Insurance Fund, Central District - Monastir (Tunisia)
- P69** The response variability of the asthma patients to the standard pharmacotherapy  
Ksenia Pavlova<sup>1</sup>, Oksana Kurbacheva<sup>1</sup>, Daria Mdinaradze<sup>1</sup>  
National Research Center – Institute of Immunology Federal Medical-Biological Agency of Ru - Moscow (Russian Federation)
- P70** Genetic polymorphisms of cytokines in asthma and allergic rhinitis  
Ioana Corina Bocsan<sup>1</sup>, Raluca Maria Pop<sup>1</sup>, Sergiu Pasca<sup>1</sup>, Ioana Chirila<sup>1</sup>, Paul Boarescu<sup>1</sup>, Adriana Muntean<sup>1</sup>, Vesa Stefan<sup>1</sup>, Diana Deleanu<sup>1</sup>, Anca Dana Buzoainu<sup>1</sup>  
"Iuliu Hatieganu" University of Medicine and Pharmacy - Cluj Napoca (Romania)
- P71** Asthmatic patient with menstrual delay due to formoterol  
Jasmina Dimitrijevic Golez<sup>1</sup>  
Ambulanta Meznar (Slovenia)
- P72** Airway microbiome clusters and heterogeneous interactions of microbial communities in adult asthma  
Hye-Ryun Kang<sup>1</sup>, Young-Chan Kim<sup>1</sup>, Kyoung-Hee Sohn<sup>2</sup>, Suh-Young Lee<sup>1</sup>, Min-Suk Yang<sup>1</sup>, Hye-Young Kim<sup>3</sup>, Hana Yi<sup>4</sup>, Sang Heon Kim<sup>5</sup>, Sae-Hoon Kim<sup>6</sup>, Jung-Won Park<sup>7</sup>, Sang-Heon Cho<sup>1</sup>  
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- P73** SOX18, an angiogenetic factor related with asthma exacerbation  
Jisu Hong<sup>1</sup>, Pureun-Haneul Lee<sup>1</sup>, An Soo Jang<sup>1</sup>  
Soonchunhyang University Bucheon Hospital - Bucheon (Korea, Republic of)
- P74** Respiratory functional phenotypes of severe asthma in cohort of 130 patients  
Philippe Imammadad<sup>1</sup>, Gilles Devouassoux<sup>1</sup>  
Hospices Civils de Lyon - Lyon (France)

# POSTER PRESENTATIONS

- Theme 4: ASTHMA (continued)

- P75** The impact of language as a barrier to effective asthma control in young immigrants  
Emily Tsaroucha<sup>1</sup>, Asimina Nikolakopoulou<sup>1</sup>, Georgios Noutsos<sup>2</sup>, Aikaterini Kavvada<sup>1</sup>, Athanasios Andrianopoulos<sup>1</sup>, Athanasios Foteinakopoulos<sup>1</sup>, Aggeliki Rapti<sup>1</sup>  
<sup>1</sup>Hospital of Chest Diseases - Athens (Greece), <sup>2</sup>National and Kapodistrian University - Athens (Greece)
- P76** Effect of 2-year treatment with Omalizumab in severe atopic asthma in real clinical practice  
Galina Ignatova<sup>1</sup>, Elena Blinova<sup>1</sup>  
Chelyabinsk (Russian Federation)
- P77** Phenotypes of Severe Asthma patients in Kuwait  
Mona Al-Ahmad<sup>1</sup>, Jasmina Nurkic<sup>2</sup>, Ahmed Maher<sup>2</sup>  
<sup>1</sup>Microbiology Department, Faculty of Medicine, Kuwait University - Kuwait (Kuwait), <sup>2</sup>Al-Rashed Allergy center, Ministry of Health, Kuwait - Kuwait (Kuwait)
- P78** Impact Of Nasosinusal Endoscopic Surgery By Polyposis On Inflammation, Control And Pulmonary Function In Asthma  
Lorena Soto-Retes<sup>1</sup>, Juan Ramón Gras<sup>2</sup>, Alfonso Del Cuvillo<sup>3</sup>, Gregorio Soto<sup>3</sup>, Francisco Alvarez<sup>4</sup>, Santiago Quirce<sup>5</sup>, Carolina Cisneros<sup>6</sup>, Inmaculada Lluch<sup>7</sup>, Eva Martínez<sup>8</sup>, Ana Rosado Ingelmo<sup>9</sup>, Silvia Sánchez<sup>10</sup>, Ana Gómez-Bastero<sup>11</sup>, Carles Sabadell<sup>12</sup>, Vicente Plaza<sup>1</sup>  
<sup>1</sup>Pneumology and Allergy Department, Santa Creu i Sant Pau Hospital. Institut d'Investigació Biomèdica Sant Pau (IIB Sant Pau) - Barcelona (Spain), <sup>2</sup>ENT Department, Santa Creu i Sant Pau Hospital. Institut d'Investigació Biomèdica Sant Pau (IIB Sant Pau) - Barcelona (Spain), <sup>3</sup>Hospital de Jerez - Cádiz (Spain), <sup>4</sup>Hospital Virgen del Rocío - Sevilla (Spain), <sup>5</sup>Hospital La Paz - Madrid (Spain), <sup>6</sup>Hospital Universitario de La Princesa - Madrid (Spain), <sup>7</sup>Hospital Universitario de La Ribera - Valencia (Spain), <sup>8</sup>Hospital Universitario Dr. Peset - Valencia (Spain), <sup>9</sup>Hospital Universitario Fundación de Alcorcón - Madrid (Spain), <sup>10</sup>Hospital Universitario Quirón - Madrid (Spain), <sup>11</sup>Hospital Universitario Virgen Macarena - Sevilla (Spain), <sup>12</sup>Hospital de Figueres - Girona (Spain)
- P79** RAD50 gene is associated with asthma susceptibility in Pakistani children  
Muhammad Usman Ghani<sup>1</sup>, Muhammad Farooq Sabar<sup>1</sup>, Iqbal Bano<sup>2</sup>, Mariam Shahid<sup>3</sup>, Muhammad Akram<sup>1</sup>  
<sup>1</sup>Centre for Applied Molecular Biology, University of the Punjab - Lahore (Pakistan), <sup>2</sup>The Children's Hospital & the Institute of Child Health - Lahore (Pakistan), <sup>3</sup>Centre of Excellence in Molecular Biology, University of the Punjab - Lahore (Pakistan)
- P80** Factors associated to FEV1 variations at six years old in children from Havana. Prospective population-based study  
Ramón Suárez-Medina<sup>1</sup>, Vilma Álvarez-Valdes<sup>2</sup>, Nieves B Sardiñas-Baez<sup>2</sup>, Cristina Carmona<sup>2</sup>, María Luisa Loynaz-González<sup>2</sup>, Zunilda Verdicia-Pérez<sup>2</sup>, Bárbara Corona-Tamayo<sup>2</sup>, Silvia Josefina Venero-Fernández<sup>2</sup>, John Britton<sup>3</sup>, Andrew William Fogarty<sup>3</sup>, Havana Hinasic Group<sup>1</sup>  
<sup>1</sup>National Institute of Hygiene, Epidemiology and Microbiology. - Havana (Cuba), <sup>2</sup>Municipal Division of Public Health. Municipalities of Cerro, La Lisa, Arriyo Naranjo and Habana del Este - Havana (Cuba), <sup>3</sup>Nottingham Biomedical Research Unit, Division of Epidemiology and Public Health, University of Nottingham - Nottingham (United Kingdom)
- P81** Factors associated to FEV1 variations at six years old in children from Havana. Prospective population-based study  
Ramón Suárez-Medina<sup>1</sup>, Vilma Álvarez-Valdes<sup>2</sup>, Nieves B Sardiñas-Baez<sup>2</sup>, Cristina Carmona<sup>2</sup>, María Luisa Loynaz-González<sup>2</sup>, Zunilda Verdicia-Pérez<sup>2</sup>, Bárbara Corona-Tamayo<sup>2</sup>, Silvia Josefina Venero-Fernández<sup>2</sup>, John Britton<sup>3</sup>, Andrew William Fogarty<sup>3</sup>, Havana Hinasic Group<sup>1</sup>  
<sup>1</sup>National Institute of Hygiene, Epidemiology and Microbiology. - Havana (Cuba), <sup>2</sup>Municipal Division of Public Health. Municipalities of Cerro, La Lisa, Arriyo Naranjo and Habana del Este - Havana (Cuba), <sup>3</sup>Nottingham Biomedical Research Unit, Division of Epidemiology and Public Health, University of Nottingham - Nottingham (United Kingdom)
- P82** Rationale and design of two, Phase 3, randomized controlled trials (COUGH-1 and COUGH-2) of gefapixant, a P2X3 receptor antagonist, in refractory and unexplained chronic cough  
David Muccino<sup>1</sup>, George Philip<sup>1</sup>, AH Morice<sup>2</sup>, SS Birring<sup>3</sup>, L Mcgarvey<sup>4</sup>, PV Dicpinigaitis<sup>5,6</sup>, ID Pavord<sup>7</sup>, AM Tershakovec<sup>1</sup>, MM Kitt<sup>1</sup>, C Assaid<sup>1</sup>, JA Smith<sup>8</sup>  
<sup>1</sup>Merck & Co., Inc. - Kenilworth (United States), <sup>2</sup>Hull York Medical School - Cottingham (United Kingdom), <sup>3</sup>King's College London - London (United Kingdom), <sup>4</sup>Queen's University Belfast - Belfast (United Kingdom), <sup>5</sup>Albert Einstein College of Medicine - Bronx (United States), <sup>6</sup>Montefiore Medical Center, - Bronx (United States), <sup>7</sup>University of Oxford - Oxford (United Kingdom), <sup>8</sup>University of Manchester - Manchester (United Kingdom)

# POSTER PRESENTATIONS

- Theme 4: ASTHMA (continued)

**P83** Single Nucleotide Polymorphic variant rs2290400 may predict efficacy of Ig replacement Therapy in Asthma patients

Mariam Shahid<sup>1</sup>, Muhammad Farooq Sabar<sup>2</sup>, Iqbal Bano<sup>3</sup>, Muhammad Usman Ghani<sup>2</sup>, Tayyab Husnain<sup>1</sup>

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**P84** Effects of respiratory short-chain fatty acids on bronchial inflammation in asthma

Ho Joo Yoon<sup>1</sup>, Min Kyung Park<sup>1</sup>, Hyun Lee<sup>1</sup>, Tai Sun Park<sup>1</sup>, Dong Won Park<sup>1</sup>, Ji-Yong Moon<sup>1</sup>, Tae Hyung Kim<sup>1</sup>, Jang Won Sohn<sup>1</sup>, Sang-Heon Kim<sup>1</sup>, Hye-Ran Yoon<sup>2</sup>

<sup>1</sup>Hanyang University - Seoul (Korea, Republic of), <sup>2</sup>College of Pharmacy, Duksung Women's University - Seoul (Korea, Republic of)

**P85** Targeting eosinophils in allergic bronchopulmonary aspergillosis: is it effective as a steroid-sparing strategy?

Marco Caminati<sup>1,2</sup>, Giuliana Festi<sup>3</sup>, Claudio Micheletto<sup>3</sup>, Lucia Guidolin<sup>4</sup>, Mattia Todesco<sup>4</sup>, Claudio Lunardi<sup>2</sup>, Senna Gianenrico<sup>1</sup>

<sup>1</sup>Asthma Center and Allergy Unit, Verona University Hospital - Verona (Italy), <sup>2</sup>Department of Medicine, University of Verona - Verona (Italy), <sup>3</sup>Asthma Center and Pulmonary Unit, Verona University Hospital - Verona (Italy), <sup>4</sup>School of Specialization in Allergy and Clinical Immunology, University of Verona - Verona (Italy)

**P86** Prevalence of Asthma and Allergies in Lahore Pakistan: A top ranked mega city based on environmental pollution

Muhammad Usman Ghani<sup>1</sup>, Muhammad Farooq Sabar<sup>1</sup>, Khuram Aziz<sup>2</sup>, Mariam Shahid<sup>3</sup>, Muhammad Akram<sup>1</sup>

<sup>1</sup>Centre for Applied Molecular Biology, University of the Punjab - Lahore (Pakistan), <sup>2</sup>International School of Medicine (Kyrgyzstan), <sup>3</sup>Centre of Excellence in Molecular Biology, University of the Punjab - Lahore (Pakistan)

**P87** Limits of spirometry in the initial diagnosis of asthma and COPD

Mourad Terniche<sup>1</sup>, Khaled Kermi<sup>2</sup>, Madjid Mahiout<sup>2</sup>, Mohamed Guerinik<sup>2</sup>

<sup>1</sup>Service Pneumologie CHU Mustapha - Alger (Algeria), <sup>2</sup>Service UMC CHU Mustapha - Alger (Algeria)

**P88** Impact of crisis acute asthma in North Africa

Mourad Terniche<sup>1</sup>, Khaled Kermi<sup>2</sup>, Madjid Mahiout<sup>2</sup>, Samia Taright<sup>1</sup>, Mohamed Guerinik<sup>2</sup>

<sup>1</sup>Service Pneumologie CHU Mustapha - Alger (Algeria), <sup>2</sup>Service UMC CHU Mustapha - Alger (Algeria)

**P89** Role of methacholine challenge test in asthma epidemiological studies

Hyeon Jin Woo<sup>1</sup>, Mona Samra<sup>1</sup>, Dae Hyun Lim<sup>1</sup>, Jeong Hee Kim<sup>1</sup>

<sup>1</sup>Department of Pediatrics, INHA University School of Medicine - Incheon (Korea, Republic of)

**P90** Patient characteristics and triggers eliciting refractory chronic cough

David Muccino<sup>1</sup>, George Philip<sup>1</sup>, SS Birring<sup>2</sup>, AH Morice<sup>3</sup>, MR Sher<sup>4</sup>, LP Mcgarvey<sup>5</sup>, MM Kitt<sup>1</sup>, AM Tershakovec<sup>1</sup>, ZJ Xu<sup>1</sup>, JA Smith<sup>6</sup>

<sup>1</sup>Merck & Co., Inc. - Kenilworth (United States), <sup>2</sup>King's College - London (United Kingdom), <sup>3</sup>Hull York Medical School - Cottingham (United Kingdom), <sup>4</sup>Center for Cough - Largo (United States), <sup>5</sup>Queen's University Belfast - Belfast (United Kingdom), <sup>6</sup>University of Manchester - Manchester (United Kingdom)

**P91** Prevalence of allergic symptoms in young adults after wheezing during preschool

Omarjee Bashir<sup>1</sup>, Serge Kah<sup>2</sup>, Bernard Gregoire-Krikorian<sup>3</sup>, Patrick Gros<sup>3</sup>

<sup>1</sup>Consultation des pathologies Respiratoires de l'Allergie et du Sommeil - Saint Denis (Réunion), <sup>2</sup>Cabinet Pédiatrie - Sainte Clotilde (Réunion), <sup>3</sup>Cabinet Dermatologie - Saint Denis (Réunion)

**P92** Control of steroid resistance by blocking costimulatory signal

Akio Mori<sup>1</sup>, Satoshi Kouyama<sup>1</sup>, Miyako Yamaguchi<sup>1</sup>, Chiemi Kumitani<sup>1</sup>, Akemi Ohtomo-Abe<sup>1</sup>, Kiyoshi Sekiya<sup>1</sup>, Yuma Fukutomi<sup>1</sup>, Masami Taniguchi<sup>1</sup>, Takayuki Ohtomo<sup>2</sup>, Osamu Kaminuma<sup>3</sup>

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# POSTER PRESENTATIONS

- Theme 4: ASTHMA (continued)

- P93** Adenosine receptor binding affinity and bronchospasmolytic activity of 1,3-dipropyl-8-phenyl substituted xanthine derivatives  
Divya Gumber<sup>1</sup>, Madhwı Ojha<sup>1</sup>, rakesh Yadav<sup>1</sup>, Karl Norbert Klotz<sup>2</sup>, Sonja Kachler<sup>2</sup>, Divya Yadav<sup>1</sup>  
<sup>1</sup>Banasthali Vidyapith - Banasthali (India), <sup>2</sup>Institut für Pharmakologie und Toxikologie, Universität Würzburg - Würzburg (Germany)
- P94** Effect of air cleaners on early and late asthmatic response in asthmatic subjects sensitized to cat in ALYATEC's environmental exposure chamber (EEC)  
Frédéric De Blay<sup>1,2</sup>, Nathalie Domis<sup>2</sup>, Alina Gherasim<sup>2</sup>  
<sup>1</sup>Chest Diseases Department, Strasbourg University Hospital - Strasbourg (France), <sup>2</sup>Alyatec - Strasbourg (France)
- P95** Diagnostic usefulness of impulse oscillometry in adult asthmatics with normal lung function  
Sung-Ryeol Kim<sup>1</sup>, Kyungchul Kim<sup>1</sup>, Kyung Hee Park<sup>1</sup>, Jung-Won Park<sup>1</sup>, Jae-Hyun Lee<sup>1</sup>  
Division of Allergy and Immunology, Department of Internal Medicine, Institute of Allergy, Yonsei University College of Medicine - Seoul (Korea, Republic of)
- P96** Relevance of serum specific IgE and total IgE estimation in asthma patients with pigeon exposure  
Anil Kumar Mavi<sup>1</sup>, Raj Kumar<sup>2</sup>, kamal Singh<sup>2</sup>, Manoj Kumar<sup>2</sup>  
<sup>1</sup>Department of Pulmonary Medicine, Vallabhbhai Patel Chest Institute, University of Delhi - Delhi (India), <sup>2</sup>Department of Pulmonary Medicine, Vallabhbhai Patel Chest Institute, University of Delhi - Delhi (India)
- P97** The relationship between basophils and cytokines in exhaled breath condensate for the classification of asthma phenotype  
Min-Hye Kim<sup>1</sup>, Ji-Su Shim<sup>1</sup>, Young-Joo Cho<sup>1</sup>  
Ewha Womans University - Seoul (Korea, Republic of)

- Theme 5: DERMATOLOGY

- P98** Treatment of Familial Mediterranean Fever decreased Hereditary angioedema attacks  
Mariam Movsisyan<sup>1</sup>, Armine Hakobyan<sup>1</sup>, Raffi Tachdjian<sup>2,3</sup>  
<sup>1</sup>Yerevan State Medical University - Yerevan (Armenia), <sup>2</sup>UCLA School of Medicine - Los Angeles (United States), <sup>3</sup>AIRE Medical of Los Angeles - Los Angeles (United States)
- P99** The role and association of plasma level of IL-19 and pro-inflammatory cytokines (IL-17A, IL-4 and IL-1 $\beta$ ) with severity of atopic dermatitis in children  
Karolina Dumycz<sup>1</sup>, Katarzyna Kunkiel<sup>1</sup>, Anna Stelmaszczyk-Emmel<sup>2</sup>, Paweł Józefczuk<sup>3</sup>, Dominika Ambrozej<sup>1</sup>, Wojciech Feleszko<sup>1</sup>  
<sup>1</sup>Department of Pediatric Respiratory Diseases and Allergy, Medical University of Warsaw - Warsaw (Poland), <sup>2</sup>of Laboratory Diagnostics and Clinical Immunology of Developmental Age - Warsaw (Poland), <sup>3</sup>Department of Pediatric Gastroenterology and Nutrition - Warsaw (Poland)
- P100** Summary of Results from a Phase 2b, Randomized, Placebo-Controlled Trial of Upadacitinib for Patients with Atopic Dermatitis  
Chih-Ho Hong<sup>1</sup>, David Rosmarin<sup>2</sup>, Xiaofei Hu<sup>3</sup>, Henrique Teixeira<sup>3</sup>, Kristian Reich<sup>4</sup>  
<sup>1</sup>University of British Columbia, Department of Dermatology and Skin Sciences and Probitry Medical Research - Surrey (Canada), <sup>2</sup>Tufts Medical Center - Boston (United States), <sup>3</sup>AbbVie - North Chicago (United States), <sup>4</sup>Center for Translational Research in Inflammatory Skin Diseases, Institute for Health Services Research in Dermatology and Nursing, University Medical Center Hamburg-Eppendorf; Skinflammation® Center - Hamburg (Germany)
- P101** "Dimple" dermographia - a unique diagnostic finding in allergy percutaneous skin testing  
Robert Y. Lin<sup>1</sup>, Johanna A. Deossa<sup>2</sup>  
<sup>1</sup>New York Medical College - New York (United States), <sup>2</sup>New York Allergy & Sinus Centers - New York (United States)
- P102** A randomized single blinded study comparing efficacy of bilastine versus cetirizine in autoimmune urticaria  
Teeba Raja<sup>1</sup>, Ting Guan Ng<sup>1</sup>  
Department of dermatology, Hospital Tengku Ampuan Rahimah - Klang (Malaysia)

# POSTER PRESENTATIONS

- Theme 5: DERMATOLOGY (continued)

- P103** Diagnosis mistaken: a non-negligible reason for rejecting the declaration of occupational dermatitis  
Lamia Bouzgarrou<sup>1</sup>, Amira Omrane<sup>1</sup>, Wahid Chebbeh<sup>2</sup>, Ilhem Boussarssar<sup>2</sup>, Imen Kellala<sup>2</sup>, Kamel Belkhiria<sup>2</sup>, Adel Gaaliche<sup>2</sup>, Kamel Rjeb<sup>2</sup>  
<sup>1</sup>Department of occupational medicine and ergonomics, Faculty of medicine of Monastir - Monastir (Tunisia), <sup>2</sup>National Health Insurance Fund, Central District - Monastir (Tunisia)
- P104** The use of probiotics in topical treatment of atopic dermatitis – a systematic review  
Dominika Ambrozej<sup>1</sup>, Katarzyna Kunkiel<sup>1</sup>, Karolina Dumycz<sup>1</sup>, Wojciech Feleszko<sup>1</sup>  
Medical University of Warsaw / Department of Pediatric Respiratory Diseases and Allergy - Warsaw (Poland)
- P105** Management of systemic agents in adults with atopic dermatitis: comparison with psoriasis and chronic urticaria  
Claire Pascal<sup>1</sup>, Delphine Maucort-Boulch<sup>1,2</sup>, Sophie Gilibert<sup>3</sup>, David Bottigioli<sup>3</sup>, Virginie Verdu<sup>3</sup>, Fanny Delcroix<sup>3</sup>, Florence Hacard<sup>3,4</sup>, Frédéric Bérard<sup>1,3,4</sup>, Jean-François Nicolas<sup>1,3,4</sup>, Audrey Nosbaum<sup>1,3,4</sup>  
<sup>1</sup>Université Claude Bernard Lyon 1 - Lyon (France), <sup>2</sup>Department of Biostatics and Bioinformatic, Centre Hospitalier Lyon-Sud, Hospices Civils de Lyon - Pierre-Bénite (France), <sup>3</sup>Allergology and Clinical Immunology Department, Centre Hospitalier Lyon-Sud, Hospices Civils de Lyon - Pierre-Bénite (France), <sup>4</sup>CIRI (International Center for Infectiology Research), INSERM U1111, Ecole Normale Supérieure de Lyon, Université Claude Bernard Lyon 1, CNRS UMR 5308, Lyon (France)
- P106** Comparison of efficacy of intralesional meglumine antimoniate versus combination of 50% trichloroacetic acid and intralesional meglumine antimoniate in patients of cutaneous leishmaniasis  
Nighat Akbar<sup>1</sup>  
Allergy Centre, NIH - Islamabad (Pakistan)
- P107** Trial of Eczema allergy Screening Tests (TEST) feasibility study  
Matthew Ridd<sup>1</sup>, Douglas Webb<sup>1</sup>, Kirsty Roberts<sup>1</sup>, Turner Nicholas<sup>1</sup>, Santer Miriam<sup>2</sup>, Chalmers Joanne<sup>3</sup>, Marriage Deborah<sup>4</sup>, Waddell Lisa<sup>5</sup>, Garfield Kirsty<sup>1</sup>, Coast Joanna<sup>1</sup>, Selman Lucy<sup>1</sup>, Clement Clare<sup>1</sup>, Angier Elizabeth<sup>2</sup>, Boyle Robert<sup>6</sup>, on behalf of Test Study<sup>1</sup>  
<sup>1</sup>University of Bristol - Bristol (United Kingdom), <sup>2</sup>University of Southampton - Southampton (United Kingdom), <sup>3</sup>University of Nottingham - Nottingham (United Kingdom), <sup>4</sup>Bristol Royal Hospital for Children - Bristol (United Kingdom), <sup>5</sup>Nottingham CityCare Partnership - Nottingham (United Kingdom), <sup>6</sup>Imperial College London - London (United Kingdom)
- P108** Angioedema treated with Omalizumab. Case Report  
Maria Maddalena Sirufo<sup>1</sup>, Massimo De Martinis<sup>1</sup>, Lia Ginaldi<sup>1</sup>  
Department of Life, Health and Environmental Sciences, University of L'Aquila. Allergy and Clinical Immunology Unit, AUSL Teramo, Italy. - L'aquila (Italy)
- P109** Genetic variants in VDR-SNPs and Vitamin D levels associated with Urticaria Spontaneous Chronicle  
Eduardo Egea<sup>1</sup>, Luis Fang<sup>1</sup>, Sofia Moreno-Woo<sup>1</sup>, Gloria Garavito<sup>1,2</sup>  
<sup>1</sup>Universidad del Norte - Barranquilla (Colombia), <sup>2</sup>Universidad Simón Bolívar - Barranquilla (Colombia)
- P110** Chronic urticaria (CU) and levonorgestrel/ethinylestradiol therapy: is there a link?  
Laura Cozzi<sup>1</sup>  
Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy; - Milano (Italy)
- P111** Patch testing results in 50 patients with periocular dermatitis – a retrospective analysis  
Catalina Florea<sup>1</sup>, Lareina Wujanto<sup>1</sup>  
Department of Dermatology, Hillingdon Hospital NHS Trust, London - London (United Kingdom)
- P112** Epidemic Statistics of Contributing Factors to Atopic Dermatitis  
Revaz Sepiashvili<sup>1</sup>, Manana Chikhladze<sup>2</sup>, Sophio Gamkrelidze<sup>3</sup>  
<sup>1</sup>Peopels Friendship University of Russia RUDN University) - Moscow (Russian Federation), <sup>2</sup>Akaki Tsereteli State University, faculty of Medicine, - Kutaisi (Georgia), <sup>3</sup>National Institute of Allergology, Asthma and Clinical Immunology of Georgian National Academy of Sciences - Tskhaltubo (Georgia)

# POSTER PRESENTATIONS

- Theme 5: DERMATOLOGY (continued)

**P113** Autoantigen Transglutaminase 3 participates in the pathogenesis of Atopic dermatitis by preferentially inducing Th1 cell reactivity via DC-SIGN  
Xu Yao<sup>1</sup>

<sup>1</sup>Institute of Dermatology, Chinese Academy of Medical Sciences and Peking Union Medical College - Nanjing (China)

**P114** Bullous impetigo masquerading as erythema multiforme

Mario Rodenas<sup>1</sup>, Maria Isabel Longo<sup>2</sup>

<sup>1</sup>University of Florida, Section of Allergy & Clinical Immunology - Gainesville (United States), <sup>2</sup>University of Florida, Department of Dermatology - Gainesville (United States)

**P115** Minimum effective maintenance omalizumab dose for chronic spontaneous urticaria in an 11-year-old girl

Adolfo Blanco<sup>1</sup>

Sanatorio de la cañada - Cordoba (Argentina)

**P116** Evaluation of relationships between atopic dermatitis and infectious disorders using sequential pattern mining

Ju Hee Han<sup>1</sup>, Jae Wooong Yoon<sup>2</sup>, Chul Hwan Bang<sup>1</sup>, Jun Young Lee<sup>1</sup>, Young MIn Park<sup>1</sup>, Suk Jun Lee<sup>2</sup>, Ji Hyun Lee<sup>1</sup>

<sup>1</sup>Department of Dermatology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea - Seoul (Korea, Republic of),

<sup>2</sup>Department of Business Management, Kwangwoon University - Seoul (Korea, Republic of)

**P117** Cutaneous manifestations due to histamine H1 antagonist

Flore Kurihara<sup>1</sup>, Tullia De Risi Pugliese<sup>1</sup>, Emmanuelle Amsler<sup>1</sup>, Jean Eric Autegarden<sup>1</sup>, Olivier Bayrou<sup>1</sup>, Hafida Gaouar<sup>1</sup>,  
Catherine Pecquet<sup>1</sup>, Annick Barbaud<sup>1</sup>, Angele Soria<sup>1</sup>

Dermatology and allergology department, Tenon hospital - Paris (France)

**P118** Comparison of in vitro susceptibility of Sarcoptes scabiei var. hominis to topical 5% permethrin and topical 1% ivermectin

Nighat Akbar<sup>1</sup>, Nadia Iftikhar<sup>2</sup>

<sup>1</sup>Allergy Centre, NIH - Islamabad (Pakistan), <sup>2</sup>Military Hospital - Rawalpindi (Pakistan)

**P119** Anxiety, depression, and stress in patients with chronic urticaria

Gil-Soon Choi<sup>1</sup>, Young-Hee Nam<sup>2</sup>, Mi-Yeong Kim<sup>3</sup>, Eun-Jung Jo<sup>4</sup>, Chan-Sun Park<sup>5</sup>, Hye-Kyung Park<sup>4</sup>, Hee-Kyoo Kim<sup>1</sup>

<sup>1</sup>Dept. of Internal medicine, Kosin University Collage of Medicine - Busan (Korea, Republic of), <sup>2</sup>Dept. of Internal medicine, College of Medicine, Dong-A University - Busan (Korea, Republic of), <sup>3</sup>Dept. of Internal medicine, Busan Paik Hospital, Inje University College of Medicine - Busan (Korea, Republic of), <sup>4</sup>Dept. of Internal medicine, Pusan National University School of Medicine - Busan (Korea, Republic of), <sup>5</sup>Dept. of Internal medicine, Haeundae Paik Hospital, Inje University College of Medicine - Busan (Korea, Republic of)

**P120** Application of topical peloid-derived humic acid suppresses allergic contact dermatitis in mice model

Yury Zhernov<sup>1</sup>, Alina Zhdanova<sup>2</sup>, Nadezda Avvakumova<sup>2</sup>, Musa Khaitov<sup>1</sup>

<sup>1</sup>NRC Institute of Immunology FMBA of Russia - Moscow (Russian Federation), <sup>2</sup>Samara State Medical University - Samara (Russian Federation)

**P121** Management of Hereditary Angioedema in North Macedonia compared to regional and Western European data

Vesna Grivcheva-Panovska<sup>1</sup>

PHI University Clinic of Dermatology, School of Medicine, University St. Cyril and Methodius, - Skopje (North Macedonia, Republic of)

**P122** Serum Platelet Activating Factor Levels Predicts Refractoriness to Antihistamine Treatment in Chronic Spontaneous Urticaria

Eun-Mi Yang<sup>1</sup>, Young-Min Ye<sup>1</sup>, Hyun-Young Cha<sup>1</sup>, Bastsetseg Ulambayar<sup>1</sup>, Yoo Seob Shin<sup>1</sup>, Hae-Sim Park<sup>1</sup>

Ajou University School of Medicine - Suwon (Korea, Republic of)

**P123** Clustering Clinical Course of Chronic Urticaria Using a Longitudinal Database

Young-Min Ye<sup>1</sup>, Jiwon Yoon<sup>1</sup>, Yoo Seob Shin<sup>1</sup>, Dong-Ho Nahm<sup>1</sup>, Hae-Sim Park<sup>1</sup>

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# POSTER PRESENTATIONS

## • Theme 5: DERMATOLOGY (continued)

### P124 Quality of life in patients with atopic dermatitis and their relatives in Rio de Janeiro-Brazil

Priscilla Santos<sup>1</sup>, Gabriela Dias<sup>2</sup>, Saint Clair Gomes Junior<sup>3</sup>, Davisson Tavares<sup>4</sup>, Cristiane Gonçalves<sup>4</sup>, Izabel Kanaan<sup>4</sup>, Marianne Sigres<sup>4</sup>, Ana Mosca<sup>4</sup>

<sup>1</sup>Hospital Municipal Jesus/Hospital Universitário Pedro Ernesto/Universidade do Estado do Rio de Janeiro - Rio De Janeiro (Brazil), <sup>2</sup>Hospital Universitário Pedro Ernesto/Universidade do Estado do Rio de Janeiro - Rio De Janeiro (Brazil), <sup>3</sup>Instituto Fernandes Figueiras - Fiocruz - Rio De Janeiro (Brazil), <sup>4</sup>Hospital Municipal Jesus - Rio De Janeiro (Brazil)

### P125 The management of acute urticaria, a systematic review

Fariza Badloe<sup>1</sup>, Christina Giddelo<sup>1</sup>, Inge Kortekaas Krohn<sup>1</sup>, Johannes Ring<sup>2</sup>, David Beckweé<sup>3</sup>, Jan Gutermuth<sup>1</sup>, Martine Grosber<sup>1</sup>

<sup>1</sup>Department of Dermatology, Universitair Ziekenhuis Brussel, Vrije Universiteit Brussel (VUB) - Brussels (Belgium), <sup>2</sup>Department Dermatology and Allergy Biederstein, Technical University - Munich (Germany), <sup>3</sup>Gerontology Department; Frailty in Ageing (FRIA) Research Department; Rehabilitation Sciences Research Department (RERE), Vrije Universiteit Brussel (VUB) - Brussels (Belgium)

### P126 Reliability of atopy patch tests in detecting protein sensitization in atopic dermatitis: a vehicle comparison

Aurélie Bergeret<sup>1</sup>, Coline Jaulent<sup>1</sup>, Fanny Delcroix<sup>1</sup>, Florence Hacard<sup>1,2</sup>, Marie-Noelle Bouverot<sup>1</sup>, Marc Vocanson<sup>2</sup>, Jean-Francois Nicolas<sup>1,2</sup>, Audrey Nosbaum<sup>1,2</sup>

<sup>1</sup>Allergy and Clinical Immunology Department, Lyon Sud University Hospital, Pierre Benite, University of Lyon, Lyon (France), <sup>2</sup>CIRI (International Center for Infectiology Research), INSERM U1111, Ecole Normale Supérieure de Lyon, Université Claude Bernard Lyon 1, CNRS UMR 5308 - Lyon (France)

### P127 The Effects of Outdoor Activities in Forests on Atopic Dermatitis

Woo Kyung Kim<sup>1</sup>

Seoul Paik hospital, Inje University - Seoul (Korea, Republic of)

### P128 Serum transglutaminase 2 activity as a potential biomarker of disease severity and response to omalizumab in chronic spontaneous urticaria

JH Choi<sup>1,2</sup>, Y Bae<sup>3</sup>, KH Park<sup>3</sup>

<sup>1</sup>Dept. of Pulmonology and Allergy, Hallym University Dongtan Sacred Heart Hospital - Hwaseong (Korea, Republic of), <sup>2</sup>Allergy and Clinical Immunology Research center, Hallym University College of Medicine - Chunchun (Korea, Republic of), <sup>3</sup>Dept. of Dermatology, Hallym University Dongtan Sacred Heart Hospital - Hwaseong (Korea, Republic of)

## • Theme 6: DRUG ALLERGY

### P129 Atopic status in NSAIDs intolerance patients

Ignacio Garcia Nunez<sup>1</sup>, Sergio Castro Acosta<sup>2</sup>, Maria Ángeles Algaba Marmol<sup>3</sup>, Luis Manuel Entrenas Costa<sup>2</sup>

<sup>1</sup>Allergy Department; Hospital Quironsalud Cordoba - Cordoba (Spain), <sup>2</sup>School of Medicine; Cordoba University - Cordoba (Spain), <sup>3</sup>DCCU Ecija; Osune Primary Care Unit; - Écija (seville) (Spain)

### P130 Propionic hypersensitivity and atopy: relationship between severity and airbone sensitization

Ignacio Garcia Nunez<sup>1</sup>, Lorena Moreno Viedma<sup>2</sup>, Maria Angeles Algaba Marmol<sup>3</sup>, Luis Manuel Entrenas Costa<sup>2</sup>

<sup>1</sup>Allergy Department; Hospital Quironsalud Cordoba - Cordoba (Spain), <sup>2</sup>Medicine School; Cordoba University - Cordoba (Spain), <sup>3</sup>DCCU Ecija; Osune Primary Care Unit - Ecija (seville) (Spain)

### P131 Profile of Patients with Anti-Inflammatory Hypersensitivity Submitted to Oral Challenge Test with Alternative Drug

Claudia Bernhardt<sup>1</sup>, Phelipe Souza<sup>1</sup>, THAIS Bernhardt<sup>2</sup>, Paula Bernhardt<sup>3</sup>, Johanna Wiegert<sup>2</sup>

<sup>1</sup>ASBAI - Balneário Camboriú (Brazil), <sup>2</sup>UNIVALI - Balneário Camboriú (Brazil), <sup>3</sup>PUC PR - Balneário Camboriú (Brazil)

### P132 Drug-induced cutaneous leukocytoclastic vasculitis: a series of 5 cases

Maxime Altomare<sup>1</sup>, Coline Jaulent<sup>2,3</sup>, Florence Hacard<sup>1</sup>, Jean François Nicolas<sup>1</sup>, Frédéric Berard<sup>1</sup>, Audrey Nosbaum<sup>1,4</sup>

<sup>1</sup>Department of Clinical Immunology and Allergy, Lyon-Sud University Hospital - Pierre-Bénite (France), <sup>2</sup>Department of Clinical Immunology and Allergy, Lyon-Sud University Hospital - Lyon (France), <sup>3</sup>Université Claude Bernard - Lyon 1 - Lyon (France), <sup>4</sup>CIRI – Centre International de Recherche en Infectiologie, Univ. Lyon, Université Claude Bernard Lyon 1, Inserm, CNRS, ENS Lyon - Lyon

# POSTER PRESENTATIONS

- Theme 6: DRUG ALLERGY (continued)

**P133** Cross-reactivity with third and second generation cephalosporins in truly penicillin allergic patients

Andrada Chiron<sup>1</sup>, Hafida Gaouar<sup>1</sup>, Jean-Eric Autegarden<sup>1</sup>, Emmanuelle Amsler<sup>1</sup>, Annick Barbaud<sup>1</sup>, Angèle Soria<sup>1,2</sup>

<sup>1</sup>Service de Dermatologie et d'Allergologie, Hôpital Tenon, Paris HUEP, APHP, Paris, France Sorbonne Universités - Paris (France), <sup>2</sup>Centre d'Immunologie et des Maladies Infectieuses – Paris (Cimi-Paris), INSERM U1113, France - Paris (France)

**P134** Some problems in the allergy work-up in a patient with severe metamizole anaphylaxis and multiple severe comorbidities - case report

Roxana Silvia Bumbacea<sup>1,2</sup>, Valentin Georgescu<sup>2</sup>, Selda Ali<sup>1,2</sup>

<sup>1</sup>Carol Davila University of Medicine and Pharmacy - Bucharest (Romania), <sup>2</sup>"Dr. Carol Davila" Nephrology Hospital - Bucharest (Romania)

**P135** Allergy to antibiotics and association with asthma and allergic diseases in children in Havana. Population-based study

Silvia Josefina Venero-Fernández<sup>1</sup>, Mirta Álvarez-Castello<sup>2</sup>, Raúl Lázaro Castro-Almarales<sup>3</sup>, Ramón Suárez-Medina<sup>1</sup>, Ramón Suárez-Medina<sup>1</sup>, Andrew William Fogarty<sup>4</sup>, Andrew William Fogarty<sup>4</sup>, Havana Hinasic Group<sup>1</sup>, Havana Hinasic Group<sup>1</sup>

<sup>1</sup>National Institute of Hygiene, Epidemiology and Microbiology - La Habana (Cuba), <sup>2</sup>University Hospital "General Calixto Garcia" - La Habana (Cuba), <sup>3</sup>Clinical Trials Group, National Center of Bioproducts - La Habana (Cuba), <sup>4</sup>Nottingham Biomedical Research Unit. Division of Epidemiology and public Health. University of Nottingham - Nottingham (United Kingdom)

**P136** Rare hypersensitivity reactions to low molecular weight heparins: two case reports

Mojmír Racansky<sup>1</sup>, Beata Hutyrová<sup>1</sup>

Dept. of Allergology and Clinical Immunology, University Hospital Olomouc, Faculty of Medicine and Dentistry, Palacký University, Olomouc, Czech Republic - Olomouc (Czech Republic)

**P137** Major and Minor Penicillin determinants in penicillin allergy testing: A South Australian experience

Syed Ali<sup>1</sup>, Thanh-Thao Le<sup>1</sup>, Chino Yuson<sup>1</sup>, Frank Kette<sup>1</sup>, William Smith<sup>1</sup>, Pravin Hissaria<sup>1</sup>

Royal Adelaide Hospital - Adelaide (Australia)

**P138** Adverse drug reactions to benznidazole in Chagas disease: management and successful desensitization

Dolores Martinez-Anton<sup>1</sup>, Javier Sanchez De Vicente<sup>1</sup>, Aritza Segurola<sup>1</sup>, Yolanda Seras<sup>1</sup>, Eduardo Garcia-Lirio<sup>1</sup>, Begoña Irazabal<sup>1</sup>, Pedro M. Gamboa<sup>1</sup>, Ignacio Jauregui Presa<sup>1</sup>

Hospital Universitario Cruces - Baracaldo (Spain)

**P139** Testing of drug-induced pseudo-allergies in a porcine model

Janos Szebeni<sup>1,2,3</sup>

<sup>1</sup>iTox Consulting Group - Cambridge (United States), <sup>2</sup>SeroScience Ltd - Budapest (Hungary), <sup>3</sup>Semmelweis University - Budapest (Hungary)

**P140** Profile of drug hypersensitivity patients in a tertiary hospital in Indonesia

Gatot Soegiarto<sup>1</sup>, R Panji Surya Putra<sup>2</sup>

<sup>1</sup>Allergy and Clinical Immunology Division, Internal Medicine Department, Dr. Soetomo General Hospital, Faculty of Medicine Airlangga University - Surabaya (Indonesia), <sup>2</sup>Internal Medicine Department, Dr. Soetomo General Hospital, Faculty of Medicine Airlangga University - Surabaya (Indonesia)

**P141** Features of non-immediate hypersensitivity to iodinated contrast media according to Vilnius university hospital Santaros Klinikos data

Justina Rudyte<sup>1,2</sup>, Monika Orvydaite<sup>1</sup>, Paulina Petraityte<sup>1</sup>, Violeta Kvedariene<sup>1,3</sup>

<sup>1</sup>Faculty of Medicine - Vilnius (Lithuania), <sup>2</sup>Center of Pulmonology and Allergology of Vilnius University Hospital Santaros Klinikos - Vilnius (Lithuania), <sup>3</sup>Center of Pulmonology and Allergology of Vilnius University Hospital Santaros Klinikos, - Vilnius (Lithuania)

**P142** Hydroxychloroquine induced erythema multiforme after treatment of granuloma annulare

Mario Rodenas<sup>1</sup>, Maria Isabel Longo<sup>2</sup>

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<sup>2</sup>University of Florida, Department of Dermatology - Gainesville (United States)

# POSTER PRESENTATIONS

- Theme 6: DRUG ALLERGY (continued)

**P143** Successful desensitization to clarithromycin and moxifloxacin for the treatment of nontuberculous mycobacteria infection

Cheol Woo Kim<sup>1</sup>, Sang Hoon Kim<sup>2</sup>

<sup>1</sup>Department of Internal Medicine, Inha University School of Medicine - Incheol (Korea, Republic of), <sup>2</sup>Department of Internal Medicine, Eulji Hospital, Eulji University School of Medicine - Seoul (Korea, Republic of)

**P144** Detection of an immediate hypersensitivity to paracetamol after drug challenge

Aurélie Bergeret<sup>1</sup>, Frédéric Bérard<sup>1,2</sup>, Jean-Francois Nicolas<sup>1,2</sup>, Florence Hacard<sup>1,2</sup>, Audrey Nosbaum<sup>1,2</sup>, Coline Jaulent<sup>1,3</sup>

<sup>1</sup>Allergy and Clinical Immunology Department, Lyon Sud University Hospital, Hospices Civils de Lyon, Pierre Benite (France), <sup>2</sup>CIRI (International Center for Infectiology Research), INSERM U1111, Ecole Normale Supérieure de Lyon, Université Claude Bernard Lyon 1, CNRS UMR 5308, Lyon, France - Lyon (France), <sup>3</sup>Claude Bernard Lyon 1 University - Lyon (France)

**P145** Blue nails: a case of minocycline-induced hyperpigmentation

Farzad Adib<sup>1</sup>, James Wong<sup>1</sup>, Richard Loftus<sup>1</sup>

Eisenhower Health - Rancho Mirage (United States)

**P146** 10-years-registry of Stevens-Johnson syndrome and toxic epidermal necrosis analysis

Guzel Nurtdinova<sup>1</sup>, Elena Galimova<sup>1</sup>, Naufal Zagidullin<sup>1</sup>, Olga Kucher<sup>1</sup>

Bashkir State Medical University - Ufa (Russian Federation)

**P147** Comprehensive miRNA analysis of conjunctival epithelium of Stevens-Johnson syndrome patients in the chronic stage

Mayumi Ueta<sup>1</sup>, Hiromi Nishigaki<sup>1</sup>, Chie Sotozono<sup>1</sup>, Norihiko Yokoi<sup>1</sup>, Shigeru Kinoshita<sup>1</sup>

Kyoto Prefectural University of Medicine - Kyoto (Japan)

**P148** Interest of skin retesting in remote penicillin allergies

Rita Azzi<sup>1</sup>, Amelie Vaillant<sup>1</sup>, Christophe Goetz<sup>2</sup>, Valentin Philippe<sup>3</sup>, Pascale Monfort<sup>3</sup>, Etienne Beaudouin<sup>1</sup>, Sébastien Lefevre<sup>1</sup>

<sup>1</sup>Regional Institute for Allergy and Environmental diseases and Clinical Immunology, Metz Regional Hospital, - Metz (France), <sup>2</sup>Clinical research support unit, Metz Regional Hospital - Metz (France), <sup>3</sup>Hospital Pharmacy department, Metz Regional Hospital - Metz (France)

- Theme 7: ENT AND OCULAR ALLERGY

**P149** Prognosis of olfactory dysfunction according to etiology and timing of treatment

Soo Whan Kim<sup>1</sup>, Il Hwan Lee<sup>1</sup>, Do Hyun Kim<sup>1</sup>

Department of Otolaryngology-Head and Neck Surgery, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea - Seoul (Korea, Republic of)

**P150** Nasal commensal *Staphylococcus* species modulates the epithelial cell-derived Th2 cytokine-dependent immune responses in the allergic nasal mucosa

Yung Jin Jeon<sup>1</sup>, Chan Hee Gil<sup>2</sup>, Jina Won<sup>2</sup>, Ara Jo<sup>3</sup>, Hyun Jik Kim<sup>3,2</sup>

<sup>1</sup>Gyeongsang National University Hospital - Jinju (Korea, Republic of), <sup>2</sup>Seoul National University College of Medicine - Seoul (Korea, Republic of), <sup>3</sup>Seoul National University Hospital - Seoul (Korea, Republic of)

**P151** Therapeutic equivalence and early onset of action of a novel water-soluble budesonide nasal spray (Budesolv 10) compared to Rhinocort® aqua 64 in patients suffering from grass pollen induced allergic rhinitis with or without asthma

Petra Ziegelmayer<sup>1,2,3</sup>, Patrick Lemell<sup>1</sup>, Nicole Unger-Manhart<sup>4</sup>, Andreas Goessl<sup>4</sup>, René Ziegelmayer<sup>1</sup>, Eva Prieschl-Grassauer<sup>4</sup>

<sup>1</sup>Power Project GmbH, Vienna Challenge Chamber - Vienna (Austria), <sup>2</sup>ThermoFisher Scientific - Vienna (Austria), <sup>3</sup>Medical University Vienna - Vienna, <sup>4</sup>Marinomed Biotech AG - Vienna (Austria)

**P152** Examination of respiratory function test before and after surgery of eosinophilic sinusitis

Kojiro Hirano<sup>1</sup>, Isao Suzuki<sup>1</sup>, Yuki Maruyama<sup>1</sup>, Hitome Kobayashi<sup>1</sup>

Department of Otorhinolaryngology Showa University School of Medicine - Tokyo (Japan)

# POSTER PRESENTATIONS

- Theme 7: ENT AND OCULAR ALLERGY (continued)

**P153** T regulatory cells during human rhinovirus infection

Mübbeck Akdis<sup>1</sup>

Swiss Institute of Allergy and Asthma Research (SIAF) - Davos Platz (Switzerland)

**P154** IgG4-related orbital disease with ANCA positivity: a case report

Victoria Eng<sup>1</sup>, Anusha Ramanathan<sup>1</sup>, Knut Eichhorn<sup>1</sup>, Aviv Hever<sup>1</sup>, Shefali Samant<sup>1</sup>

Kaiser Permanente Los Angeles Medical Center - Los Angeles, California (United States)

**P155** Perception of allergic rhinitis: use of the Brief Illness Perception Questionnaire

Pascal Demoly<sup>1</sup>, Isabelle Bossé<sup>2</sup>, Pascal Maigret<sup>3</sup>

<sup>1</sup>INSERM - Montpellier (France), <sup>2</sup>Private practice - La Rochelle (France), <sup>3</sup>Medical, Menarini - Rungis (France)

**P156** Efficacy and safety of Rupatadine Fumarate in the treatment of perennial allergic rhinitis

Hyung Gu Kim<sup>1</sup>, Tae-Bin Won<sup>2</sup>, Jeong-Whun Kim<sup>2</sup>, Jin Kook Kim<sup>3</sup>, Young Hyo Kim<sup>4</sup>, Soo Whan Kim<sup>5</sup>, Hyo Yeol Kim<sup>6</sup>, Dae Woo Kim<sup>7</sup>, Sung Wan Kim<sup>8</sup>, Chang-Hoon Kim<sup>9</sup>, Chae-Seo Rhee<sup>1</sup>

<sup>1</sup>Seoul National University Hospital - Seoul (Korea, Republic of), <sup>2</sup>Seoul National University Bundang Hospital - Seoul (Korea, Republic of),

<sup>3</sup>Konkuk University - Seoul (Korea, Republic of), <sup>4</sup>Inha University - Incheon (Korea, Republic of), <sup>5</sup>The Catholic University of Korea - Seoul (Korea, Republic of), <sup>6</sup>Samsung Medical Center - Seoul (Korea, Republic of), <sup>7</sup>Seoul National University Boramae Medical Center - Seoul (Korea, Republic of), <sup>8</sup>Kyunghee University Hospital - Seoul (Korea, Republic of), <sup>9</sup>Yonsei University College of Medicine - Seoul (Korea, Republic of)

**P157** Vernal allergic march

Daniele Giovanni Ghiglioni<sup>1</sup>, Gaia Bruschi<sup>1</sup>, Laura Cozzi<sup>2</sup>, Paola Giovanna Marchisio<sup>1,3</sup>

<sup>1</sup>Pediatric Highly Intensive Care Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico - Milano (Italy), <sup>2</sup>Pediatric Intermediate Care Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico - Milano (Italy), <sup>3</sup>Department of Pathophysiology and Transplantation, Università degli Studi di Milano - Milano (Italy)

**P158** Phase 3, Single-Center, Sequential and Parallel-Group, Double-Blind, Randomized Study Evaluating the Efficacy and Safety of Fexofenadine Hydrochloride 180 mg (Allegra®/Telfast®) versus Placebo in Subjects Suffering from Allergic Rhinitis with Symptoms Aggravated in Presence of Pollutants: Analysis of individual symptom scores

Anne K. Ellis<sup>1</sup>, Margarita Murrieta-Aguttes<sup>2</sup>, Sandy Furey<sup>3</sup>, Christopher Carlsten<sup>4</sup>

<sup>1</sup>Queen's University - Kingston, Ontario (Canada), <sup>2</sup>Consumer Health Care, Sanofi - Gentilly (France), <sup>3</sup>Consumer Health Care, Sanofi - Bridgewater (United States), <sup>4</sup>University of British Columbia - Vancouver (Canada)

**P159** Phase 3, Single-Center, Sequential and Parallel-Group, Double-Blind, Randomized Study Evaluating the Efficacy and Safety of Fexofenadine Hydrochloride 180 mg (Allegra®/Telfast®) versus Placebo in Subjects Suffering from Seasonal Allergic Rhinitis with Symptoms Aggravated in Presence of Pollutants

Anne K. Ellis<sup>1</sup>, Margarita Murrieta-Aguttes<sup>2</sup>, Sandy Furey<sup>3</sup>, Christopher Carlsten<sup>4</sup>

<sup>1</sup>Queen's University - Kingston, Ontario (Canada), <sup>2</sup>Consumer Health Care, Sanofi - Gentilly (France), <sup>3</sup>Consumer Health Care, Sanofi - Bridgewater (United States), <sup>4</sup>University of British Columbia - Vancouver (Canada)

**P160** Association study between FOSL2 gene polymorphisms and persistent allergic rhinitis sensitized by dust mites in a Chinese Han population

Lei Cheng<sup>1</sup>, Jun-Jun Qian<sup>1</sup>, Dong-Yun Bu<sup>1</sup>

Nanjing Medical University, The First Affiliated Hospital - Nanjing (China)

**P161** A randomized, double-blind, phase III non-inferiority clinical trial to assess efficacy and safety of triamcinolone acetonide nasal spray in comparison with fluticasone propionate nasal spray in adults suffering from perennial allergic rhinitis (PAR) in Russia: a post-hoc analysis of Quality of Life

Alexander V. Karaulov<sup>1</sup>, Tamara Vylegzhanova<sup>2</sup>, Andrey Ovchinnikov<sup>3</sup>, Natalya Nenasheva<sup>4</sup>, Aleksandr Maslakov<sup>5</sup>

<sup>1</sup>I.M. Sechenov First Moscow State Medical University - Moscow (Russian Federation), <sup>2</sup>National Research Center Institute of Immunology Federal Medical-Biological Agency of Russia - Moscow (Russian Federation), <sup>3</sup>A.I. Yevdokimov Moscow State University of Medicine and Dentistry - Moscow (Russian Federation), <sup>4</sup>Russian Medical Academy of Postdiploma Education - Moscow (Russian Federation), <sup>5</sup>Sanofi - Moscow (Russian Federation)

# POSTER PRESENTATIONS

- Theme 7: ENT AND OCULAR ALLERGY (continued)

**P162** New concept intracell-targeting nanoparticle technology allows drastic reduction in nasal corticosteroid therapy in patients with perennial allergic rhinitis – a clinical observation

Christo Tzachev <sup>1,2</sup>, Georgi Nikolov <sup>3</sup>, Stephaniya Gaydarova <sup>1</sup>, Bogdan Petrunov <sup>3</sup>

<sup>1</sup>Faculty of Chemistry and Pharmacy, Sofia University "St. Kliment Ohridski" - Sofia (Bulgaria), <sup>2</sup>Lead Biotherapeutics Ltd - Sofia (Bulgaria),

<sup>3</sup>The National Centre of Infectious and Parasitic Diseases - Sofia (Bulgaria)

**P163** Effect of continuous positive airway pressure on symptoms of allergic rhinitis in the patients with obstructive sleep apnea  
Hyung Gun Na <sup>1,2</sup>, Chung Man Sung <sup>3,4</sup>, Hyung Chae Yang <sup>3,4</sup>

<sup>1</sup>Yeungnam University - Daegu (Korea, Republic of), <sup>2</sup>Department of Otorhinolaryngology-Head and Neck Surgery, College of Medicine,

<sup>3</sup>Chonnam national university - Gwangju (Korea, Republic of), <sup>4</sup>Department of Otolaryngology-Head and Neck Surgery, Chonnam National University Hospital

**P164** Incidence of allergic conjunctivitis in a pediatric ophthalmologic clinic in Regla, Havana, during 2017  
Jorge Torres Concepción <sup>1</sup>, Belkis López González <sup>2</sup>

<sup>1</sup>University Polyclinic "Lidia and Clodomira" - Havana (Cuba), <sup>2</sup>University Hospital "Calixto García" - Havana (Cuba)

**P165** Examination of local IgE and follicular dendritic cells in the endotype of eosinophilic chronic rhinosinusitis  
Nozomu Wakayama <sup>1,2</sup>, Shoji Matsune <sup>2</sup>, Kimihiro Okubo <sup>1</sup>

<sup>1</sup>Nippon medical school - Tokyo (Japan), <sup>2</sup>Nippon medical school musashi kosugi hospital - Kawasaki (Japan)

**P166** Therapeutic management of vibratory uvulitis

Gaëtan Acher <sup>1</sup>, Audrey Nosbaum <sup>1,2</sup>, Frederic Berard <sup>1,3</sup>, Jean-François Nicolas <sup>1,3</sup>, Coline Jaulent <sup>1</sup>, Florence Hacard <sup>1,3</sup>

<sup>1</sup>Allergy and Clinical Immunology Department, Lyon Sud University Hospital, Hospices Civils de Lyon - Pierre Bénite (France), <sup>2</sup>CIRI

(International Center for Infectiology Research), INSERM U1111, Ecole Normale Supérieure de Lyon, Université Claude Bernard Lyon 1, CNRS UMR 5308 - Lyon (France), <sup>3</sup>CIRI (International Center for Infectiology Research), INSERM U1111, Ecole Normale Supérieure de Lyon, Université Claude Bernard Lyon 1, CNRS UMR 5308 - Lyon (France)

**P167** IL-13-induced periostin production from human bronchial epithelial cells and human nasal epithelial cells

Isao Suzuki <sup>1,2</sup>, Kojiro Hirano <sup>1</sup>, Yuki Maruyama <sup>1</sup>, Hitome Kobayashi <sup>1</sup>, Bruce K. Rubin <sup>2</sup>

<sup>1</sup>Department of Otorhinolaryngology, School of Medicine, Showa University - Tokyo (Japan), <sup>2</sup>Department of Pediatrics, Children's Hospital of Richmond at Virginia Commonwealth University School of Medicine - Richmond (United States)

**P168** The effect of mepolizumab, an anti-IL-5 monoclonal antibody, on eosinophilic otitis media associated with severe asthma

Yuki Maruyama <sup>1</sup>, Isao Suzuki <sup>1</sup>, Kojiro Hirano <sup>1</sup>, Hitome Kobayashi <sup>1</sup>

Department of Otorhinolaryngology, School of Medicine, Showa University - Tokyo (Japan)

**P169** Omalizumab: for severe ocular allergy

Juliana Murata <sup>1</sup>, Jessica Drobrenski <sup>1</sup>, Cintia Silva <sup>1</sup>, Carlos Antonio Riedi <sup>1</sup>, Herberto Jose Chong-Neto <sup>1</sup>, Nelson Augusto Rosario <sup>1</sup>  
Paraná Federal University - Curitiba (Brazil)

**P170** The relationship of chronic rhinosinusitis to subsequent diagnoses of asthma, myocardial infarction, stroke, anxiety, and depression

Dong-Kyu Kim <sup>1</sup>, Dae Woo Kim <sup>2</sup>, Jong-Yeup Kim <sup>3</sup>

<sup>1</sup>Hallym University College of Medicine - Chuncheon (Korea, Republic of), <sup>2</sup>Seoul University College of Medicine - Seoul (Korea, Republic of), <sup>3</sup>Konyang University College of Medicine - Daejeon (Korea, Republic of)

# POSTER PRESENTATIONS

## • Theme 8: ENVIRONMENTAL ALLERGIES

- P171** Lyon: AFEDA airborne Ambrosia pollen counts, the longest series in the world?  
Chantal Déchamp<sup>1</sup>, J. Belmonte<sup>2,1</sup>, H. Méon<sup>3,1</sup>  
<sup>1</sup>Association Française d'Étude Des Ambroisies - Lyon Saint-Priest (France), <sup>2</sup>Universitat Autònoma de Barcelona - Barcelona (Spain),  
<sup>3</sup>Université Claude Bernard - Lyon (France)
- P172** Self-reported symptoms of grass allergic subjects correlate positively with symptom scores recorded in a controlled environment  
Basma Ismail<sup>1</sup>, Charvi Bhatt<sup>1</sup>, Anne Marie Salapatek<sup>1</sup>, Peter Couroux<sup>1</sup>  
Cliantha Research, Mississauga, Ontario, Canada - Mississauga (Canada)
- P173** The relationship between formaldehyde exposure and rhinitis in Korean Children  
Kyung Suk Lee<sup>1</sup>, Hye Mi Jee<sup>2</sup>, Young-Ho Jung<sup>3</sup>, Youn Ho Sheen<sup>4</sup>, Eun Gyo Ha<sup>2</sup>, Man Yong Han<sup>2</sup>  
<sup>1</sup>Department of Pediatrics, Hanyang University Guri Hospital, Hanyang University College of Medicine - Guri (Korea, Republic of),  
<sup>2</sup>Department of Pediatrics, CHA Bundang Medical Center, CHA University School of Medicine - Seongnam (Korea, Republic of), <sup>3</sup>Seongbok Seoul Asan pediatric clinic - Yongin (Korea, Republic of), <sup>4</sup>Department of Pediatrics, CHA Gangnam Medical Center, CHA University School of Medicine - Seoul (Korea, Republic of)
- P174** In silico epitope prediction, expression and immunogenicity analysis of Dermatophagoides mite group 1 (Der 1)  
Yui Sasaki<sup>1</sup>, Akira Osumi<sup>1</sup>, Maiko Watanabe<sup>2</sup>, Yukiko Shirafuji<sup>1</sup>, Jun Terajima<sup>1</sup>, Akiko Yamazaki<sup>1</sup>  
<sup>1</sup>Iwate university - Morioka (Japan), <sup>2</sup>National Institute of Health Sciences - Kawasaki (Japan)
- P175** Environmental Stress Influences Expression of Grass Group-1 Allergen/ Beta-Expansin in Pollen of Maize and Rice  
Yotin Juprasong<sup>1,2,3</sup>, Chirawat Namphaithun<sup>3,4</sup>, Wisuwat Songnuan<sup>2,3,4</sup>  
<sup>1</sup>Toxicology Graduate Programme, Faculty of Science, Mahidol University - Bangkok (Thailand), <sup>2</sup>Center of Excellence on Environmental Health and Toxicology, Faculty of Science, Mahidol University - Bangkok (Thailand), <sup>3</sup>Systems Biology of Diseases Research Unit, Faculty of Science, Mahidol University - Bangkok (Thailand), <sup>4</sup>Department of Plant Science, Faculty of Science, Mahidol University - Bangkok (Thailand)
- P176** Effects of indoor air cleaner with filter in children with asthma  
Sungroul Kim<sup>1</sup>, Dae Hyun Lim<sup>2,3</sup>  
<sup>1</sup>Department of Environmental Health Sciences, Soonchunhyang University (Korea, Republic of), <sup>2</sup>Department of Pediatrics, Inha University Hospital - Incheon (Korea, Republic of), <sup>3</sup>Environment Health Center of Allergic Diseases - Incheon (Korea, Republic of)
- P177** Occupational allergy to methacrylates: a deadly risk in workplace  
Amira Omrane<sup>1</sup>, Olfa Jelassi<sup>1</sup>, Chayma Harrathi<sup>1</sup>, Mohamed Adnene Henchi<sup>1</sup>, Lamia Bouzgarrou<sup>1</sup>  
Department of occupational medicine and ergonomics, Faculty of medicine of Monastir - Monastir (Tunisia)
- P178** Occupational allergy from cucumber  
Liisa Airaksinen<sup>1</sup>, Pirjo Hölttä<sup>1</sup>  
Finnish Institute of Occupational Health - Helsinki (Finland)
- P179** Sensitization to molds in bookstore and library workers at the University of Havana  
Mirta Alvarez<sup>1</sup>, Yaquelín Leyva<sup>1</sup>, Teresa Rojas<sup>2</sup>, Raúl Castro<sup>3</sup>, Amada Duarte<sup>1</sup>, Alexis Labrada<sup>3</sup>  
<sup>1</sup>Calixto García Hospital - Havana (Cuba), <sup>2</sup>Faculty of Biology - Havana (Cuba), <sup>3</sup>National Center of Bioproducts - Mayabeque (Cuba)
- P180** Cross-reaction of Formosan termite (*Coptotermes formosanus*) arginine kinase with cockroach Per a 9  
Christopher Mattison<sup>1</sup>, Anchalee Tungtronchitr<sup>2</sup>, Katherine Tille<sup>3</sup>, Carrie Cottone<sup>4</sup>, Claudia Riegel<sup>4</sup>  
<sup>1</sup>USDA - New Orleans (United States), <sup>2</sup>Center of Research Excellence on Therapeutic Proteins and Antibody Engineering - Bangkok (Thailand), <sup>3</sup>A&A Center of W. Colorado - Grand Junction (United States), <sup>4</sup>New Orleans Mosquito and Termite Control Board - New Orleans (United States)
- P181** Occupational allergen sensitization and risk factors for allergic diseases among bakery workers of Havana  
Mirta Alvarez<sup>1</sup>, Raúl Castro<sup>2</sup>, Yaquelín Leyva<sup>1</sup>, Belkis Lopez<sup>1</sup>, Jose Rodríguez<sup>1</sup>, Alexis Labrada<sup>2</sup>  
<sup>1</sup>Calixto García Hospital - Havana (Cuba), <sup>2</sup>National Center of Bioproducts - Mayabeque (Cuba)

# POSTER PRESENTATIONS

## ● Theme 8: ENVIRONMENTAL ALLERGIES (continued)

- P182** The effect of mechanical Air dresser for eliminating pollens allergens  
Jae-Won Oh<sup>1</sup>, Young-Jin Choi<sup>1</sup>, Sujin Seong<sup>2</sup>, Jungha Park<sup>2</sup>, Hyesoon Yang<sup>2</sup>  
<sup>1</sup>Hanyang University Guri Hospital - Guri (Korea, Republic of), <sup>2</sup>Samsung Electronics Co. Ltd - Suwon (Korea, Republic of)
- P183** Revision of pollen threshold levels for oak, pine, ragweed, and Japanese hop in Seoul metropolitan area  
Young-Jin Choi<sup>1</sup>, Kyung-Suk Lee<sup>1</sup>, Jae-Won Oh<sup>1</sup>, Kyu-Rang Kim<sup>2</sup>, Young-Sub Lee<sup>3</sup>  
<sup>1</sup>Hanyang University Guri Hospital - Guri (Korea, Republic of), <sup>2</sup>National Institute of Meteorological Sciences - Jeju (Korea, Republic of),  
<sup>3</sup>Dongguk University - Seoul (Korea, Republic of)
- P184** Evolution of ragweed pollination in France  
Samuel Monnier<sup>1</sup>, Michel Thibaudon<sup>1</sup>, Gilles Oliver<sup>1</sup>, Charlotte Sindt<sup>1</sup>  
RNSA - Brussieu (France)
- P185** Health impact of Ambrosia artemisiifolia L in Auvergne-Rhône-Alpes : analysis of medico-economic data  
Lucie Anzivino<sup>1</sup>, Chérine Labrèche<sup>1</sup>, Magali Venzac<sup>1</sup>  
Observatoire régional de la santé - Lyon (France)
- P187** How Allergic Rhinitis and Asthma Control is related to adult Quality of Life  
Isabella Annesi-Maesano<sup>1</sup>  
INSERM - Paris (France)
- P188** First pollen calendar in Qatar: a guide for allergologist and reference to pollen-allergy sufferers  
Mayam Ali Al-Nesf<sup>1</sup>, Dorra Gharbi<sup>1,2</sup>, Maria del Mar Trigo Perez<sup>2</sup>, Blessing Reen Dason<sup>1</sup>, Hassan Mobayed<sup>1</sup>, Mohammed Ali Ramzy<sup>1</sup>, Amjad Tuffaha<sup>3</sup>, Mehdi Adeli<sup>3</sup>, Hisham Ahmed Sattar<sup>1</sup>  
<sup>1</sup>Hamad Medical Corporation, Allergy & Immunology Unit - Doha (Qatar), <sup>2</sup>Department of Plant Biology, University of Malaga - Malaga (Spain), <sup>3</sup>Sidra Medicine - Doha (Qatar)
- P189** Korean Red Ginseng inhibits diesel exhaust particles-induced MUC5AC/B expression and inflammation through suppressing TLR4 and NF- $\kappa$ B signaling pathway in vitro and in vivo  
Kim Yong-Dae<sup>1</sup>, Na Hyung Gyun<sup>1</sup>, Choi Yoon Seok<sup>1</sup>, Bae Chang Hoon<sup>1</sup>, Song Si-Youn<sup>1</sup>  
Department of Otorhinolaryngology-Head and Neck surgery, College of Medicine, Yeungnam University - Daegu (Korea, Republic of)

## ● Theme 9: FOOD ALLERGY

- P190** Characterization of self-reported pollen food syndrome (PFS) in birch and oak allergic subjects exposed to oak pollen in an environmental exposure chamber (EEC) in Canada  
Charvi Bhatt<sup>1</sup>, Basma Ismail<sup>1</sup>, Brian Sonne Stage<sup>2</sup>, Peter Couroux<sup>1</sup>, Anne Marie Salapatek<sup>1</sup>  
<sup>1</sup>Cliantha Research, Mississauga, Ontario, Canada - Mississauga (Canada), <sup>2</sup>ALKAbelló, Hørsholm, Denmark - Horsholm (Denmark)
- P191** The role of Lymphocyte Transformation Test In Type 4 food hypersensitivity  
Ugur Musabak<sup>1</sup>, Tuba Erdogan<sup>1</sup>  
Baskent University School of Medicine division of Immunology and Allergy - Ankara (Turkey)
- P192** Peanut or hazelnut ? About two cases of severe anaphylaxis to hazelnut involving PR-10  
Samy Bentrad<sup>1</sup>, Sophie Collin<sup>1</sup>, Chloé Brocart<sup>1</sup>, Christine Pietrement<sup>1</sup>, Dominique Sabouraud<sup>1</sup>  
University Hospital of Reims - Reims (France)
- P193** Allergen Epidemiology 13: description of IgE mediated food allergy in children from Southern France  
Benoit Sterling<sup>1,2</sup>, Chantal Agabriel<sup>1,3</sup>, Valérie Liabeuf<sup>1,2</sup>, Maryam Oudyi<sup>4</sup>, Marie Guerra-Felix<sup>1</sup>, Marie-Josée Pascalet-Guidon<sup>1</sup>, Alain Poisson<sup>1</sup>, Marion Cornu<sup>5,4</sup>, Anna Carsin<sup>1,6</sup>, Kevin Arlaud<sup>5</sup>, Isabelle Cabon-Boudard<sup>1,7</sup>, Joël Levy<sup>1</sup>, Joana Vitte<sup>8</sup>, Caroline Klingebiel<sup>9</sup>  
<sup>1</sup>Medical office - Marseille (France), <sup>2</sup>Aix-Marseille Univ, APHM , Service de Dermatologie-Vénéréologie - Marseille (France), <sup>3</sup>Aix-Marseille Univ, APHM , Service de Pédiatrie multidisciplinaire - Marseille (France), <sup>4</sup>Service de pédiatrie, CH du Pays d'aix - Aix-En-Provence (France),  
<sup>5</sup>Medical office - Aix-En-Provence (France), <sup>6</sup>Service de Pédiatrie, Hôpital St Joseph - Marseille (France), <sup>7</sup>Aix-Marseille Univ, APHM, service de Pneumologie pédiatrique, - Marseille (France), <sup>8</sup>Aix-Marseille Univ IRD, APHM, MEPHI, IHU Méditerranée Infection - Marseille (France),  
<sup>9</sup>Laboratoire Synlab Provence - Marseille (France)

# POSTER PRESENTATIONS

- Theme 9: FOOD ALLERGY (continued)

- P194** Prevalence of comorbidities with peanut allergy: results from two phase 3, randomized, double-blind, placebo-controlled trials (PALISADE and RAMSES)  
Kirsten Beyer<sup>1</sup>, Alan Goldsobel<sup>2</sup>, Douglas Johnston<sup>3</sup>, Noelle M. Griffin<sup>4</sup>, Kari R. Brown<sup>4</sup>, Trinh Pham<sup>4</sup>, Andrea Vereda<sup>5</sup>, Dareen Siri<sup>6</sup>, George Du Toit<sup>7</sup>  
<sup>1</sup>Charité Universitätsmedizin Berlin, Klinik für Pädiatrie m. S. Pneumologie und Immunologie - Berlin (Germany), <sup>2</sup>Allergy & Asthma Associates of Northern California, San Jose, CA - San Jose (United States), <sup>3</sup>Asthma & Allergy Specialists, P.A. - Charlotte (United States), <sup>4</sup>Aimmune Therapeutics - Brisbane (United States), <sup>5</sup>Aimmune Therapeutics - London (United Kingdom), <sup>6</sup>Midwest Allergy Sinus Asthma/SWIA Clinical Research Center - Normal (United States), <sup>7</sup>Guy's and St. Thomas' NHS Foundation Trust - London (United Kingdom)
- P195** Cossensitization to fruit seeds in children with positive cashew nut and/or pistachio skin prick tests  
Pinar Gur Cetinkaya<sup>1</sup>, Melike Kahveci<sup>1</sup>, Ozge Soyer<sup>1</sup>, Umit Murat Sahiner<sup>1</sup>, Betul Buyuktiryaki<sup>1</sup>, Bulent Enis Sekerel<sup>1</sup>  
MD - Ankara (Turkey)
- P196** Peanut-reactive T cell profiling reveals diversity in allergic patients and predicts response to therapy  
Veronique Bajzik<sup>1</sup>, Hannah Deberg<sup>1</sup>, Justine Calise<sup>1</sup>, Mary Farington<sup>2</sup>, Eric Wambre<sup>1</sup>  
<sup>1</sup>Benaroya Research Institute - Seattle (United States), <sup>2</sup>Virginia Mason Medical Center - Seattle (United States)
- P197** Severe anaphylaxis with emergent allergy to seeds  
Ariane Nemni<sup>1</sup>, Carine Billard<sup>1,2</sup>, Patricia Thome<sup>1</sup>, Tamazoust Guiddir<sup>3</sup>  
<sup>1</sup>Robert Ballanger Hospital - Aulnay-sous-Bois (France), <sup>2</sup>Meaux Hospital - Meaux (France), <sup>3</sup>Bicêtre University Hospital - Le Kremlin Bicêtre (France)
- P198** A diagnostic tool to help allergists in idiopathic anaphylaxis  
Carine Billard<sup>1,2</sup>, Tamazoust Guiddir<sup>3</sup>, Patricia Thome<sup>4</sup>, Ariane Nemni<sup>4</sup>  
<sup>1</sup>Meaux Hospital - Meaux (France), <sup>2</sup>Robert Ballanger Hospital - Aulnay Sous Bois, <sup>3</sup>Bicêtre Hospital - Kremlin Bicêtre (France), <sup>4</sup>Robert Ballanger Hospital - Aulnay Sous Bois (France)
- P199** Food allergen sensitization before and after liver transplantation: risk and evolution of IgE-mediated food allergies in 30 children cohort  
Tamazoust Guiddir<sup>1</sup>, Roman Kzrysiek<sup>2</sup>, Christèle Kyheng<sup>3</sup>, Joseph Cohen<sup>3</sup>, Oanez Ackermann<sup>3</sup>, Emmanuel Jacquemin<sup>3</sup>, Ariane Nemni<sup>3</sup>  
<sup>1</sup>Bicêtre University Hospital - Le Kremlin Bicêtre (France), <sup>2</sup>Bicêtre university Hospital - Le Kremlin-Bicêtre (France), <sup>3</sup>Bicêtre University Hospital - Le Kremlin-Bicêtre (France)
- P200** A rare presentation of mammalian milk anaphylaxis in adults  
Filipe Benito-Garcia<sup>1</sup>, Sofia Couto<sup>1</sup>, Mário Morais-Almeida<sup>1</sup>  
Immunoallergy Department, CUF Descobertas Hospital - Lisboa (Portugal)
- P201** Bullying, School Violence, and Food Allergies  
Ralph Cash<sup>1</sup>  
Nova Southeastern University - Ft Lauderdale (United States)
- P202** Spice reactions in children: allergic or not? Cases reports and literature review  
Elena Bradatan<sup>1</sup>, Dominique Sabouraud<sup>2</sup>  
<sup>1</sup>Centre Hospitalier Regional Pediatric Department - Namur (Belgium), <sup>2</sup>Reims University Hospital - Reims (France)
- P203** The role of Food Atopy Patch Test in the Diagnosis of Food Allergy in adults with Atopic Dermatitis  
Laura Hui<sup>1</sup>, Chaw Su Naing<sup>1</sup>, Karen Choo<sup>1</sup>  
Singapore General Hospital - Singapore (Singapore)
- P204** Atopy Patch Test in the Diagnosis of Food-Aggravated Atopic Dermatitis in Adults in Tertiary Care  
Laura Hui<sup>1</sup>, Chaw Su Naing<sup>1</sup>, Karen Choo<sup>1</sup>  
Singapore General Hospital - Singapore (Singapore)

# POSTER PRESENTATIONS

## ● Theme 9: FOOD ALLERGY (continued)

- P205** Oral food challenge as a useful diagnostic tool to identify patients allergic to selective fish species  
Sze Yin Agnes Leung<sup>1</sup>, Yat Hin Nicki Leung<sup>1</sup>, Yee Yan Christine Wai<sup>1</sup>, Jiaying Kary Xu<sup>1</sup>, Yuk Yuki Shum<sup>1</sup>, Cheuk Yin Lam<sup>1</sup>, Wing Kin Gary Wong<sup>1</sup>, Ting Fan Leung<sup>1</sup>  
Department of Paediatrics, The Chinese University of Hong Kong, Prince of Wales Hospital, Shatin - Hong Kong
- P206** Environmental factors associated with allergy in urban and rural children from the South African Food Allergy (SAFFA) cohort  
Pieter J De Waal<sup>1</sup>, Michael E Levin<sup>1</sup>, Heidi E Facey-Thomas<sup>1</sup>  
<sup>1</sup>University of Cape Town, Cape Town, South Africa - Cape Town (South Africa)
- P207** Serum Zonulin levels are higher in pediatric allergic patients than that in healthy children  
Fumiya Yamaide<sup>1</sup>, Bahrul Fikri<sup>1</sup>, Noriko Sato<sup>1</sup>, Taji Nakano<sup>1</sup>, Naoki Shimojo<sup>1</sup>  
Department of Pediatrics, Graduate School of Medicine, Chiba University - Chiba (Japan)
- P208** Benefits of oral immunotherapy in 135 French children with severe food allergies to cow's milk or hen's egg  
Vianney Gruzelie<sup>1</sup>, Anne Chabbert-Broue<sup>1</sup>, Audrey Martin-Blondel<sup>1</sup>, Marine Michelet<sup>1</sup>, Agnès Juchet<sup>1</sup>  
Pediatric Pneumo-allergology Department, Children's Hospital - Toulouse (France)
- P209** Preferences in terminology used to describe oral immunotherapy varies based on physician utilization  
Christina E. Ciaccio<sup>1</sup>, Bradley E. Chippis<sup>2</sup>, Tmirah Haselkorn<sup>3</sup>, Noelle M. Griffin<sup>4</sup>, Thomas B. Casale<sup>5</sup>  
<sup>1</sup>The University of Chicago Medicine - Chicago (United States), <sup>2</sup>Capital Allergy & Respiratory Disease Center - Sacramento (United States), <sup>3</sup>EpiMetrix, Inc. - Los Altos (United States), <sup>4</sup>Aimmune Therapeutics - Brisbane (United States), <sup>5</sup>Division of Allergy & Immunology, University of South Florida - Tampa (United States)
- P210** You can have allergy to food and eat it too  
Sami Bahna<sup>1</sup>  
Louisiana State University - Shreveport (United States)
- P211** Severe food allergies without eating  
Sami Bahna<sup>1</sup>  
Louisiana State University - Shreveport (United States)
- P212** Garden Chervil (*Anthriscus cerefolium*), a novel food allergen  
Xavier Van Der Brempt<sup>1</sup>, Jérémie Gras<sup>2</sup>, Karin Nygård<sup>3</sup>, Virginie Leduc<sup>4</sup>  
<sup>1</sup>Allergopôle, Clinique Saint-Luc - Bouge (Belgium), <sup>2</sup>Clinical Biology Laboratory, Clinique Saint-Luc - Bouge (Belgium), <sup>3</sup>Thermo Fisher Scientific, Special Allergen Service - Uppsala (Sweden), <sup>4</sup>ALK laboratory, Allergen Research - Vandeuil (France)
- P213** Food Anaphylaxis to Quinoa  
Catharina Chatain<sup>1,2</sup>, Sandrine Jacquetin<sup>3</sup>, Martine Pernollet<sup>4</sup>, Marie-Thérèse Leccia<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Allergology and Photobiology, University Hospital of Grenoble - Grenoble (France), <sup>2</sup>Department of Pediatrics, University Hospital of Grenoble - Grenoble (France), <sup>3</sup>Genclis SA - Vandoeuvre-Lès-Nancy (France), <sup>4</sup>Institute of Biology and Pathology, Laboratory of Immunology, University Hospital of Grenoble - Grenoble (France)
- P214** Comparison and in-silico modeling of monoclonal antibodies recognizing the immuno-dominant Ana o 3 cashew nut allergen  
Christopher Mattison<sup>1</sup>, Barry Vant-Hull<sup>2</sup>, Yvette Bren-Mattison<sup>3</sup>, Casey Grimm<sup>1</sup>  
<sup>1</sup>USDA - New Orleans (United States), <sup>2</sup>Contiguity Consulting - Boulder (United States), <sup>3</sup>BioMed Bridge - Denver (United States)
- P215** Oral immunotherapy for hazelnut allergy: a single-center retrospective study on 100 patients  
Tomas Moraly<sup>1,2</sup>, Diane Pelletier De Chambure<sup>3,4</sup>, Maxime Seynave<sup>1,2</sup>, Christine Delebarre-Sauvage<sup>1,2</sup>, Cecile Chenivesse<sup>3,4</sup>  
<sup>1</sup>Hôpital Saint-Vincent de Paul, Groupement des Hôpitaux de l'Institut Catholique de Lille, Service d'Allergologie - Lille (France), <sup>2</sup>Faculté de Médecine et de Maïeutique de Lille, Université Catholique de Lille, <sup>3</sup>CHU Lille, Service de Pneumologie et Immuno-Allergologie, Centre de compétence Maladies Pulmonaires Rares - Lille (France), <sup>4</sup>Univ Lille, Lille (France)

# POSTER PRESENTATIONS

## • Theme 10: FUNCTIONAL GENOMICS AND PROTEOMICS / SYSTEMS BIOLOGY / PERSONALIZED MEDICINE

- P216** Evaluating the efficacy of omalizumab therapy in a group of adolescents with chronic urticaria in real clinical practice  
Vera Kalugina<sup>1</sup>, Leyla Namazova-Baranova<sup>1</sup>, Elena Vishneva<sup>1</sup>, Anna Alekseeva<sup>1</sup>, Elena Dobrynina<sup>2</sup>, Julia Levina<sup>1</sup>, Daria Chemakina<sup>2</sup>

<sup>1</sup>Central Clinical Hospital of the Russian Academy of Sciences - Moscow (Russian Federation), <sup>2</sup>National Medical Research Center for Children's Health - Moscow (Russian Federation)

## • Theme 11: IMMUNOLOGY

- P217** Generalize dysbiosis, Chilean Case report of 13 patients

Ana Maria Agar<sup>1</sup>, Daniela Perez<sup>2</sup>, Barbara Descalzi<sup>3,4</sup>, María José Nally<sup>2</sup>, Pascale Christiansen<sup>2</sup>

<sup>1</sup>Clinica Alemana de Chile - Santiago (Chile), <sup>2</sup>Universidad de los Andes - Santiago (Chile), <sup>3</sup>Universidad Católica de Chile - Santiago (Chile), <sup>4</sup>Universidad del Desarrollo - Santiago (Chile)

- P218** Five years follow up of a patient with chronic urticaria on omalizumab treatment

Ana Maria Agar<sup>1</sup>, Bárbara Descalzi<sup>2,3</sup>, María José Nally<sup>4</sup>, Daniela Perez<sup>4</sup>, Gigia Roizen<sup>1</sup>, Ximena Fajre<sup>1</sup>, Francisca Reculé<sup>1</sup>, Alex Castro<sup>1</sup>, Pascale Christiansen<sup>1</sup>

<sup>1</sup>Clinica Alemana de Chile - Santiago (Chile), <sup>2</sup>Universidad Católica de Chile - Santiago (Chile), <sup>3</sup>Universidad de Desarrollo - Santiago (Chile), <sup>4</sup>Universidad de los Andes - Santiago (Chile)

- P219** Urogenital dysbiosis: the importance of a complete immune / nutritional evaluation and the therapeutic intervention with probiotics, vitamins and minerals

Ana Maria Agar<sup>1</sup>, Bárbara Descalzi<sup>2,3</sup>, María José Nally<sup>4</sup>, Daniela Perez<sup>4</sup>, Pascale Christiansen<sup>4</sup>

<sup>1</sup>Clinica Alemana de Chile - Santiago (Chile), <sup>2</sup>Universidad Católica de Chile - Santiago (Chile), <sup>3</sup>Universidad de Desarrollo - Santiago (Chile),

<sup>4</sup>Universidad de los Andes - Santiago (Chile)

- P220** Probiotics therapeutic intervention in Chilean women with recurrent vulvovaginitis

Ana Maria Agar<sup>1</sup>, María José Nally<sup>2</sup>, Barbara Descalzi<sup>3,4</sup>, Daniela Perez<sup>2</sup>, Pascale Christiansen<sup>2</sup>

<sup>1</sup>Clinica Alemana de Chile - Santiago (Chile), <sup>2</sup>Universidad de los Andes - Santiago (Chile), <sup>3</sup>Universidad Católica de Chile - Santiago (Chile),

<sup>4</sup>Universidad del Desarrollo - Santiago

- P221** Immune / Nutritional evaluation and therapeutic intervention with probiotics, vitamins and minerals in patients with recurrent infections

Ana Maria Agar<sup>1</sup>, Bárbara Descalzi<sup>2,3</sup>, María José Nally<sup>4</sup>, Daniela Perez<sup>4</sup>, Pascale Christiansen<sup>4</sup>

<sup>1</sup>Clinica Alemana de Santiago - Santiago (Chile), <sup>2</sup>Universidad Católica de Chile - Santiago (Chile), <sup>3</sup>Universidad de Desarrollo - Santiago

(Chile), <sup>4</sup>Universidad de los Andes - Santiago (Chile)

- P222** The effects both of cytokines and cell population in the production of histamine by activated bone marrow derived mast cells

Haejin Oh<sup>1</sup>, Bong Jun Sur<sup>1</sup>, Kyung Sook Shin<sup>1</sup>, Sung-Weon Cho<sup>1</sup>

Department of Parasitology, Korea University College of Medicine - Seoul (Korea, Republic of)

- P223** Interleukin-37 relieves allergic inflammation in a house dust mite allergic rhinitis murine model

Il Hwan Lee<sup>1</sup>, Soo Whan Kim<sup>1</sup>, Do Hyun Kim<sup>1</sup>

Department of Otolaryngology-Head and Neck Surgery, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea - Seoul (Korea, Republic of)

- P224** Crosstalk between Tumor necrosis factor-alpha signaling and aryl hydrocarbon receptor signaling in nuclear factor-kappa B activation

Yukihiko Saeki<sup>1</sup>

NHO Osaka Minami Medical Center - Kawachinagano/osaka (Japan)

- P225** Maternal IgG induces maturation of offspring intrathymic B10 cells: implications for murine and human thymic B cells

A H S Inoue<sup>1</sup>, A A L Lira<sup>1</sup>, M G De-Oliveira<sup>2</sup>, F R Sgnotto<sup>3</sup>, L S Santos<sup>1</sup>, T R Sousa<sup>1</sup>, A J S Duarte<sup>1</sup>, Jefferson Russo Victor<sup>1</sup>

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# POSTER PRESENTATIONS

## • Theme 11: IMMUNOLOGY (continued)

- P226** Early life RSV infection in neonatal mice leads to exacerbated allergic asthma due to persistent Th2 pulmonary responses that are abrogated by maternal supplementation with a *L. johnsonii* probiotic  
Nicholas W. Lukacs<sup>1</sup>, Wendy Fonseca<sup>1</sup>, Carrie-Anne Malinczak<sup>1</sup>, Susan V. Lynch<sup>1</sup>, Kei Fujimura<sup>1</sup>, Jia Li<sup>1</sup>, Albert Levin<sup>1</sup>, Christine C. Johnson<sup>1</sup>, Kuan-Han Wu<sup>1</sup>, Dennis R. Ownby<sup>1</sup>, Andrew Rasky<sup>1</sup>, Catherine Ptachinski<sup>1</sup>  
University of Michigan - Ann Arbor (United States)
- P227** The wolf in disguise: beyond humoral immunodeficiency  
Carla Irani<sup>1</sup>, Pamela Farah<sup>1</sup>, Pascale Daniel<sup>1</sup>, Cybel Mehawej<sup>2</sup>  
<sup>1</sup>Hotel Dieu de France hospital, ST Joseph University - Beirut (Lebanon), <sup>2</sup>Medical genetic Unit, ST Joseph University - Beirut (Lebanon)
- P228** Inflammatory responses in mice after intranasal instillation of spores of some *Aspergillus* and *Penicillium* spp monitored in Southwest Nigeria  
Adeyinka Odebode<sup>1,2</sup>, Adedotun Adekunle<sup>3</sup>, Ebenezer Farombi<sup>4</sup>  
<sup>1</sup>Kabale University, Uganda - Kabale (Uganda), <sup>2</sup>University of Lagos, Akoka - Akoka (Nigeria), <sup>3</sup>University of Lagos - Akoka (Nigeria), <sup>4</sup>University of Ibadan - Ibadan (Nigeria)
- P229** High Intensity Resistance Training (HIRT) Improves Functional and Immunological Lung Responses in Elderly with Metabolic Syndrome  
Rodolfo P Vieira<sup>1</sup>, Maysa Alves Rodrigues Brandao-Rangel<sup>2</sup>, Eviton Correa De Sousa<sup>3</sup>, Manoel Carneiro Oliveira-Junior<sup>3</sup>, Adriano Silva-Renno<sup>3</sup>, Claudio Ricardo Frison<sup>3</sup>, Anamei Silva Reis<sup>2</sup>, Renilson Moraes Ferreira<sup>2</sup>, Thiago Gonçalves Gibson-Alves<sup>2</sup>, Tiago Alencar-Lima<sup>2</sup>, Wilson Mateus Gomes Costa-Alves<sup>2</sup>  
<sup>1</sup>Universidade Brasil, Federal University of São Paulo (UNIFESP), Anhembi Morumbi University - São José Dos Campos-Sp (Brazil), <sup>2</sup>Federal University of São Paulo (UNIFESP) - São José Dos Campos-Sp (Brazil), <sup>3</sup>Brazilian Institute of Teaching and Research in Pulmonary and Exercise Immunology (IBEPIPE) - São José Dos Campos-Sp (Brazil)
- P230** Chronic Alteration of Circadian Rhythm Work-Related in Policemen is Related to Impaired Lung Function and Mechanics: Involvement of Immune Response  
Rodolfo P Vieira<sup>1</sup>, Helida C Aquino-Santos<sup>2</sup>, Jeanne S Tavares-Vasconcelos<sup>3</sup>, Maysa A R Brandao-Rangel<sup>4</sup>, Amanda Cristina-Rosa<sup>3</sup>, Rayssa T Morais-Felix<sup>3</sup>, Simone Oliveira-Freitas<sup>3</sup>, Andre L L Bachi<sup>5</sup>, Claudio R Frison<sup>3</sup>  
<sup>1</sup>Federal University of São Paulo (UNIFESP), Universidade Brasil, Anhembi Morumbi University - São José Dos Campos-Sp (Brazil), <sup>2</sup>Universidade Brasil - São Paulo-Sp (Brazil), <sup>3</sup>Brazilian Institute of Teaching and Research in Pulmonary and Exercise Immunology (IBEPIPE) - São José Dos Campos-Sp (Brazil), <sup>4</sup>Federal University of São Paulo (UNIFESP) - São José Dos Campos-Sp (Brazil), <sup>5</sup>Federal University of São Paulo (UNIFESP) - São Paulo-Sp (Brazil)
- P231** Traditional Resistance Training Improves Functional and Immunological Lung Responses in Elderly with Metabolic Syndrome  
Rodolfo P Vieira<sup>1</sup>, Eviton Correa De Sousa<sup>2</sup>, Maysa Alves Rodrigues Brandao-Rangel<sup>2</sup>, Claudio Ricardo Frison<sup>3</sup>, Manoel Carneiro Oliveira-Junior<sup>3</sup>, Adriano Silva-Renno<sup>3</sup>, Anamei Silva Reis<sup>2</sup>, Renilson Moraes Ferreira<sup>2</sup>, Thiago Gonçalves Gibson-Alves<sup>2</sup>, Tiago Alencar-Lima<sup>2</sup>, Wilson Mateus Gomes Costa-Alves<sup>2</sup>  
<sup>1</sup>Universidade Brasil, Federal University of São Paulo (UNIFESP), University Anhembi Morumbi - São José Dos Campos-Sp (Brazil), <sup>2</sup>Federal University of São Paulo (UNIFESP) - São José Dos Campos-Sp (Brazil), <sup>3</sup>Brazilian Institute of Teaching and Research in Pulmonary and Exercise Immunology (IBEPIPE) - São José Dos Campos-Sp (Brazil)
- P232** The profiling of lipid metabolites in the nasal lavage fluid of a murine model of allergic rhinitis  
Yuri Tachibana<sup>1</sup>, Tatsuro Nakamura<sup>1</sup>, Takahisa Murata<sup>1</sup>  
Graduate School of Agriculture and Life Sciences, The University of Tokyo - Tokyo (Japan)
- P233** Autoimmunity occurrence in patients with primary antibody deficiency  
Marzieh Tavakol<sup>1</sup>, Gholamreza Azizi<sup>1</sup>  
Alborz University of Medical Sciences - Karaj (Iran, Islamic Republic of)
- P234** Stat1 gain-of-function on post-transplant genetics: a case report  
Victoria Eng<sup>1</sup>, Michael Kaplan<sup>1</sup>, Shefali Samant<sup>1</sup>, Javed Sheikh<sup>1</sup>  
Kaiser Permanente Los Angeles Medical Center - Los Angeles, California (United States)

# POSTER PRESENTATIONS

- Theme 11: IMMUNOLOGY (continued)

**P235** Early transplant improves survival in chronic granulomatous disease: a report of the USIDNET

Jennifer Yonkof<sup>1,2,3</sup>, Ashish Gupta<sup>4,5</sup>, Pingfu Fu<sup>6</sup>, Elizabeth Garabedian<sup>7</sup>, Jignesh Dalal<sup>4</sup>

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**P236** Cohen syndrome: report of a novel VPS13B (COH 1) mutation

Jonathan M Rodrigues<sup>1,2,3</sup>, Hermina D Fernandes<sup>4,3</sup>, Carrie Caruthers<sup>5</sup>, Stephen R Braddock<sup>6</sup>, Alan P Knutson<sup>7</sup>

<sup>1</sup>Allergy and Immunology, Sanford Bismarck - Bismarck, North Dakota (United States), <sup>2</sup>Department of Pediatrics, University of North Dakota School of Medicine and Health Sciences - Bismarck, North Dakota (United States), <sup>3</sup>Department of Internal Medicine, University of North Dakota School of Medicine and Health Sciences - Bismarck, North Dakota (United States), <sup>4</sup>Hematology and Oncology, Sanford Bismarck - Bismarck, North Dakota (United States), <sup>5</sup>Allergy and Immunology, The Vancouver Clinic - Vancouver, Washington (United States), <sup>6</sup>Division of Medical Genetics, Department of Pediatrics, Saint Louis University School of Medicine - St. Louis, Missouri (United States), <sup>7</sup>Division of Allergy and Immunology, Department of Pediatrics, Saint Louis University School of Medicine - St. Louis, Missouri (United States)

**P237** AlleroOncology - IgG4 antibody drives macrophages to a regulatory phenotype and negatively influences the ADCP: implications for tumour-mediated immune tolerance

Rodolfo Bianchini<sup>1,2</sup>, Galateja Jordakieva<sup>2,3</sup>, Alina Groschopf<sup>4</sup>, Jakob Piehslinger<sup>5</sup>, Daniel Reichhold<sup>5</sup>, Sebastian Jensen<sup>6</sup>, Alexander Klaus<sup>5</sup>, Erika Jensen-Jarolim<sup>1,2</sup>

<sup>1</sup>The interuniversity Messerli Research Institute of the University of Veterinary Medicine, the Medical University of Vienna and the University of Vienna - Vienna (Austria), <sup>2</sup>Institute Pathophysiology and Allergy Research, Center for Pathophysiology, Infectiology and Immunology, Division of Comparative Immunology and Oncology, Medical University of Vienna - Vienna (Austria), <sup>3</sup>Department of Physical Medicine, Rehabilitation and Occupational Medicine - Vienna (Austria), <sup>4</sup>FH Campus Wien, University of Applied Sciences - Vienna (Austria),

<sup>5</sup>Department for Surgery, Hospital "Barmherzige Schwestern" - Vienna (Austria), <sup>6</sup>Department of General Surgery, Medical University of Vienna - Vienna (Austria)

**P238** Could BAT reduce the number of oral food challenge? A prospective study

Benjamin Bonnet<sup>1,2</sup>, Marine Godignon<sup>1</sup>, Elodie Michaud<sup>3</sup>, Celine Lambert<sup>4</sup>, Etienne Merlin<sup>3,5,2</sup>, Jean-Luc Fauquert<sup>3,5</sup>, Bertrand Evrard<sup>1,2</sup>

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**P239** Peanut gastrointestinal delivery oral immunotherapy in adolescents: Basophil activation test results of the build-up and maintenance phase of the PITA study

Benjamin Bonnet<sup>1,2</sup>, Maud Godignon<sup>1</sup>, Elodie Michaud<sup>3</sup>, Bruno Pereira<sup>4</sup>, Emmanuelle Rochette<sup>3</sup>, Lise Bernard<sup>5</sup>, Nelly Gourdon-Dubois<sup>3</sup>, Etienne Merlin<sup>3,6,2</sup>, Jean-luc Fauquert<sup>3,7</sup>, Bertrand Evrard<sup>1,2</sup>

<sup>1</sup>Service d'Immunologie, CHU Gabriel-Montpied, CHU Clermont-Ferrand - Clermont-Ferrand (France), <sup>2</sup>UFR Médecine, UMR1019 UNH, Université Clermont Auvergne - Clermont-Ferrand (France), <sup>3</sup>Unité d'allergologie de l'enfant, CHU Estaing, Pole pédiatrique, CHU Clermont-Ferrand - Clermont-Ferrand (France), <sup>4</sup>Unité de Biostatistiques, Direction de la Recherche Clinique et Innovation (DRCI), CHU Clermont-Ferrand - Clermont-Ferrand (France), <sup>5</sup>Département de Pharmacie, CHU Clermont-Ferrand - Clermont-Ferrand (France), <sup>6</sup>INSERM CIC 1405, CHU Clermont-Ferrand - Clermont-Ferrand (France), <sup>7</sup>INSERM CIC 1405, CHU Clermont-Ferrand - Clermont-Ferrand (France)

# POSTER PRESENTATIONS

## • Theme 11: IMMUNOLOGY (continued)

**P240** Skin dendritic cells progressively subvert the activation of pathogenic type-2 immunity upon epicutaneous allergen immunotherapy  
Léo Laoubi<sup>1,2</sup>, Hugh Sampson<sup>2,3</sup>, Lucie Mondoulet<sup>2</sup>, Jean-François Nicolas<sup>1,4</sup>, Vincent Dioszeghy<sup>2</sup>, Marc Vocanson<sup>1</sup>

<sup>1</sup>CIRI, Centre International de Recherche en Infectiologie, INSERM U1111, Ecole Normale Supérieure de Lyon, Université Claude Bernard Lyon 1, CNRS UMR 5308, Lyon (France), <sup>2</sup>DBV Technologies - Montrouge (France), <sup>3</sup>Department of Pediatrics, Icahn School of Medicine at Mount Sinai, New York, Ny (USA), <sup>4</sup>Allergy and Clinical Immunology Department, Lyon Sud University Hospital, Pierre Bénite (France)

**P241** Association between modifiable classic risk factors and proinflammatory cytokines levels in patients attended in Hemodynamics laboratories of two medical centers in Barranquilla - Colombia  
Franklin Torres<sup>1</sup>, Axel Tolstano<sup>2</sup>, Edward Lozano<sup>2</sup>, Xavier Lastra<sup>3</sup>, Evelyn Mendoza<sup>1</sup>

<sup>1</sup>Libre University, Barranquilla (Colombia), <sup>2</sup>Clinica General del Norte, Barranquilla (Colombia), <sup>3</sup>Clinica de la Costa, Barranquilla (Colombia)

**P242** Basal protein and polysaccharide immunity levels on Primary Immunodeficiency outpatient clinic

Yvelise Barrios<sup>1</sup>, Paloma Poza-Guedes<sup>2</sup>, Andres Franco<sup>1</sup>, Inmaculada Sanchez-Machin<sup>2</sup>, Ruperto Gonzalez<sup>2</sup>, Montserrat Padilla<sup>1</sup>, Victor Matheu<sup>2</sup>

<sup>1</sup>Immunology, Hospital Universitario de Canarias - La Laguna (Spain), <sup>2</sup>Allergy, Hospital Universitario de Canarias - La Laguna (Spain)

**P243** Probiotics attenuates allergic airway inflammation via downregulation of hypoxia signaling

Hyelim Park<sup>1</sup>, Ah-Yeoun Jung<sup>1</sup>, Young Hyo Kim<sup>1</sup>

Department of Otorhinolaryngology, Inha University College of Mediine - Incheon (Korea, Republic of)

**P244** Intranasal adjuvant induces retinaldehyde dehydrogenase activity in dendritic cells via p65 signaling

Mohammad Farazuddin<sup>1</sup>, Kassim Salami<sup>1</sup>, James R. Baker, Jr.<sup>1</sup>

University of Michigan - Ann Arbor (United States)

**P245** Subsets of T regulatory cells in patients with grass pollen allergy

Georgi Nikolov<sup>1</sup>, Yana Todorova<sup>1</sup>, Maria Nikolova<sup>1</sup>, Radoslava Emilova<sup>1</sup>, Diana Hristova<sup>2</sup>, Polina Kostova-Shahid<sup>2</sup>, Bogdan Petrunov<sup>1</sup>

<sup>1</sup>NCIPD - Sofia (Bulgaria), <sup>2</sup>Alexandrovaska Hospital - Sofia (Bulgaria)

**P246** A "two-hit" phenomenon: Strongyloides hyperinfection unmasked by corticosteroids in a patient with HTLV-1

Basil Kahwash<sup>1,2</sup>, Jose Bazan<sup>3</sup>, Kara Wada<sup>1</sup>

<sup>1</sup>The Ohio State University, Department of Otolaryngology, Division of Allergy and Immunology - Columbus, Ohio (United States),

<sup>2</sup>Nationwide Children's Hospital, Department of Allergy and Immunology - Columbus, Ohio (United States), <sup>3</sup>The Ohio State University, Department of Internal Medicine, Division of Infectious Diseases - Columbus, Ohio (United States)

**P247** Transcriptome responses to rhinovirus species A and C in asthmatic and healthy children

Belinda Hales<sup>1</sup>, Denise Anderson<sup>1</sup>, Cibebe Gaido<sup>1</sup>, Anya Jones<sup>1</sup>, Kim Carter<sup>1</sup>, Ingrid Laing<sup>1</sup>, Wayne Thomas<sup>1</sup>, Anthony Bosco<sup>1</sup>  
Telethon Kids Institute, The University of Western Australia - Perth (Australia)

**P248** CaMKII and protein phosphatase regulate IgE class switch recombination via TRAF3 ubiquitination

Kano Tanabe<sup>1</sup>, Seiji Inui<sup>2</sup>

<sup>1</sup>Kumamoto Health Science University - Kumamoto (Japan), <sup>2</sup>Medical association Sugimura hospital - Kumamoto (Japan)

**P249** Gamma-Delta T cells amplify Blomia tropicalis-induced allergic airway disease

Augustin Belkadi<sup>1</sup>, François Machavoine<sup>1</sup>, Céline Dietrich<sup>1</sup>, Jefferson Russo Victor<sup>2</sup>, Maria Leite-De-Moraes<sup>1</sup>

<sup>1</sup>Laboratory of Immunoregulation and Immunopathology, Institut Necker-Enfants Malades, CNRS UMR 8253, INSERM UMR 1151 and Université Paris Descartes Sorbonne Paris Cité - Paris (France), <sup>2</sup>Laboratory of Medical Investigation LIM 56, Division of Clinical Dermatology, Medical School, University of Sao Paulo, Sao Paulo, Brazil (France)

**P250** Microscopic polyangiitis presenting with persistent cough and hemoptysis in pediatrics: A case report and review of the literature

Zhu Yantong<sup>1</sup>, Zheng Xiangrong<sup>1</sup>

Xiangya Hospital, Central South University - Changsha (China)

# POSTER PRESENTATIONS

## • Theme 12: IMMUNOTHERAPY AND BIOLOGICS

- P251** Glycoprotein profile from House Dust Mite *Dermatophagoides pteronyssinus* reveals distinct antigenic and allergenic profile among allergic patients and healthy subjects  
Rafael Resende<sup>1</sup>, Leandro Ynoue<sup>2</sup>, Juliana Miranda<sup>2</sup>, Karine Almeida<sup>2</sup>, Deise Silva<sup>2</sup>, Monica Sopelete<sup>2</sup>, Ronaldo Alves<sup>2</sup>, Margareth Gennari-Cardoso<sup>3</sup>, Ernesto Taketomi<sup>2</sup>  
<sup>1</sup>Laboratory on Thymus Research, IOC, Fiocruz - Rio De Janeiro (Brazil), <sup>2</sup>Federal University of Uberlândia - Uberlândia (Brazil), <sup>3</sup>State University of Santa Cruz - Ilhéus (Brazil)
- P252** Dupilumab as a novel steroid-sparing treatment for IgG4-related disease  
Rachel S. Simpson<sup>1</sup>, Stephanie Lau<sup>1,2</sup>, Jason K. Lee<sup>1</sup>  
<sup>1</sup>Toronto Allergists - Toronto, Ontario (Canada), <sup>2</sup>University of Ottawa, Faculty of Medicine - Ottawa, Ontario (Canada)
- P253** Role of anti ige (omalizumab) in chronic idiopathic urticaria in saudi arabia  
Abdul Rehman Syed<sup>1</sup>  
Almana General Hospital - Dammam (Saudi Arabia)
- P254** Satisfaction with grass pollen sublingual immunotherapy assessed by ESPIA questionnaire – first results from Bulgaria  
Plamena Novakova<sup>1</sup>, José Luis Justicia<sup>2</sup>, Maria Staevska<sup>1</sup>, Silviya Novakova<sup>3</sup>  
<sup>1</sup>Clinic of Clinical Allergy, Medical University Sofia - Sofia (Bulgaria), <sup>2</sup>Allergy therapeutics - Barcelona (Spain), <sup>3</sup>Allergy Unit, Internal Consulting Department, University hospital "St. George", - Plovdiv (Bulgaria)
- P255** Efficacy of house dust mite sublingual immunotherapy in poly-sensitized children with allergic rhinitis  
Yang Park<sup>1</sup>  
Wonkwang University Sanbon Hospital - Gunpo (Korea, Republic of)
- P256** Symptoms evolution in children treated with Allergen Immunotherapy: a real-life pilot study  
Valentina Milan<sup>1</sup>, Daniela Simoncini<sup>1</sup>, Margherita Sepe<sup>1</sup>, Massimo Agostino Agosti<sup>1</sup>  
Allergy Unit, SC Pediatría, Ospedale Filippo del Ponte, University of Insubria - Varese (Italy)
- P257** Dupilumab: safer and more efficient than immunosuppressive drugs in severe atopic dermatitis  
Mara Giavina-Bianchi<sup>1</sup>, Pedro Giavina-Bianchi<sup>1</sup>  
Universidade de São Paulo - São Paulo (Brazil)
- P258** Prevalence of "Allergy" as a false contraindication to vaccination in Russian parents  
Daria Chemakina<sup>1</sup>, Leyla Namazova-Baranova<sup>2,3</sup>, Elena Vishneva<sup>1,3,2</sup>, Lilia Selimzianova<sup>1,4</sup>, Marina Fedoseenko<sup>3</sup>, Vera Kalugina<sup>3</sup>  
<sup>1</sup>National Medical Research Center for Children's Health - Moscow (Russian Federation), <sup>2</sup>Pirogov Russian National Research Medical University (RNRMU) - Moscow (Russian Federation), <sup>3</sup>Central Clinical Hospital of the Russian Science Academy - Moscow (Russian Federation), <sup>4</sup>Sechenov University - Moscow (Russian Federation)
- P259** Omalizumab for Treatment of Exercise Induced Cholinergic Urticaria/Angioedema  
Ankita Nair<sup>1</sup>, Kusum Sharma<sup>1</sup>  
AKANE Institute - San Diego, Ca (United States)
- P260** The positive effect of VIT on other allergies  
Leonora Lleshi<sup>1</sup>  
R.H."IsaGreza";Allergy-immunology - Gjakova (Kosovo)
- P261** In atopic dermatitis patients and in absence of allergen immunotherapy, dupilumab induces a decrease of specific IgE and an increase of specific IgG4  
Pol André Apoil<sup>1,2</sup>, Marie Tauber<sup>3,2</sup>, Hugo Migné<sup>1</sup>, Carle Paul<sup>1,3,2</sup>  
<sup>1</sup>Federative Institute of Biology, Purpan Hospital - Toulouse (France), <sup>2</sup>INSERM U1056 UDEAR - Toulouse (France), <sup>3</sup>Dermatology and Allergology Department, Larrey Hospital - Toulouse (France)
- P262** A case of psychosis secondary to treatment with AZD2014 (Vitusertib) in a patient with Neurofibromatosis type II  
Armida Lefranc Torres<sup>1</sup>, Preetyanka Sundar<sup>1</sup>  
Berkshire Medical Center - Pittsfield (United States)



# INDUSTRY SPONSORED SYMPOSIA

**THURSDAY, DECEMBER 12**

12:15 - 1:30 pm



## ALK Symposium Lunch 1

Forum 4 (Level -2)

### Ragweed – keep the invader at bay

*Chairs: David Bernstein (USA), Jean-François Nicolas (France)*

The global burden of ragweed in Europe

*Michelle Epstein (Austria)*

Ragweed tablet: key clinical data

*David Bernstein (USA)*

The practical aspects of managing ragweed allergy with SLIT-T: Real world experience

*Anne Ellis (Canada)*



## STALLERGENES GREER Symposium Lunch 2

Amphithéâtre (Level 0)

### Efficient benefit of allergen immunotherapy in 2020

*Chairs: Moises Calderon, Pascal Demoly*

Childhood AR and Asthma and development patterns of lung function

*Adnan Custovic*

AIT- A prototype of precision medicine and Real World Evidence

*Giorgio Walter Canonica*

AIT and patient's benefit

*Davide Caimmi*

Discussion



## ASTRAZENECA Symposium Lunch 3

Forum 5 (Level -2)

### Innovation and perspectives in asthma management

*Chair: Arnaud Bourdin (France)*

Chair's Welcome

*Arnaud Bourdin (France)*

Anti-inflammatory reliever: moving away from SABA-only treatment

*Gilles Devouassoux (France)*

Eosinophils in asthma and allergy

*Philippe Gevaert (Belgium)*

Severe eosinophilic asthma: a targeted approach with biologics

*Arnaud Bourdin (France)*

Audience Q&A and Concluding Remarks

*All*

# INDUSTRY SPONSORED SYMPOSIA

FRIDAY, DECEMBER 13



8:00 - 9:00 am

Forum 5 (Level -2)

## THERMOFISHER Breakfast symposium 1

### Precision allergy molecular diagnosis application in the allergy clinic

Chair: Dr Magnus Borres (Sweden)



Forbidden fruit – know your allergens!

Dr Joana Vitte, France

Interpretation of molecular diagnostic tests in daily practice clinical cases

Dr Olga Luengo, Spain



12:45 - 2:00 pm

Forum 4 (Level -2)

## MSD Symposium Lunch 4

### The Emerging Science in Chronic Cough and Refractory Chronic Cough

Chair: Giorgio Walter Canonica, Professor Respiratory Medicine, Humanitas University, Head Personalized Medicine Asthma & Allergy, Clinic-Humanitas Research Hospital, Milano Italy

Burden and Mechanism of Disease

Peter Dicpinigaitis, MD (Professor of Medicine, Albert Einstein College of Medicine Site Director, Critical Care Medicine, Einstein Division/Montefiore Medical Center Director, Montefiore Cough Center)

Considerations for the Diagnosis and Management of Patients

Michael Blaiss (Clinical Professor of Pediatrics Medical College of Georgia at Augusta University Augusta, Georgia)

Q&A

Closing Remarks

# INDUSTRY SPONSORED SYMPOSIA

**FRIDAY, DECEMBER 13**



12:45 - 2:00 pm

Forum 5 (Level -2)

## ABBVIE Symposium Lunch 5

### New horizons: Emerging possibilities in the management of atopic dermatitis

*Chairs: Professor Dr. Torsten Zuberbier (Charité - University Medicine Berlin, Director of Allergy Research at the Department of Dermatology, Venereology and Allergology), Dr. Audrey Nosbaum (Director of the Eczema Expert Center and Deputy Head of the Allergy and Clinical Immunology Department, Lyon Sud University Hospital)*

#### Introduction

*Torsten Zuberbier*

#### AD treatment landscape and unmet needs

*Torsten Zuberbier*

#### Current understanding of the pathogenesis of AD

*Audrey Nosbaum*

#### Novel treatment approaches in AD

*Torsten Zuberbier*

#### Panel discussion



12:45 - 2:00 pm

Amphithéâtre (Level 0)

## SANOFI Symposium Lunch 6

### Impact of air pollution on Allergic Rhinitis: the clinical evidence

*Chairs: Ignacio J. Ansotegui (Spain), Jean Bousquet (France)*

#### Prevalence of Allergic Rhinitis

*Ignacio J. Ansotegui (Spain)*

#### Role of air pollution in Allergic Rhinitis symptoms exacerbation

*Nelson Rosario (Brazil)*

#### Management of Allergic Rhinitis Aggravated by Air pollution: An International Consensus

*Robert M.Naclerio (USA)*

#### Allergic Rhinitis and air pollution: from epidemiology to clinical evidence

*Anne K. Ellis (Canada)*

#### Q&A

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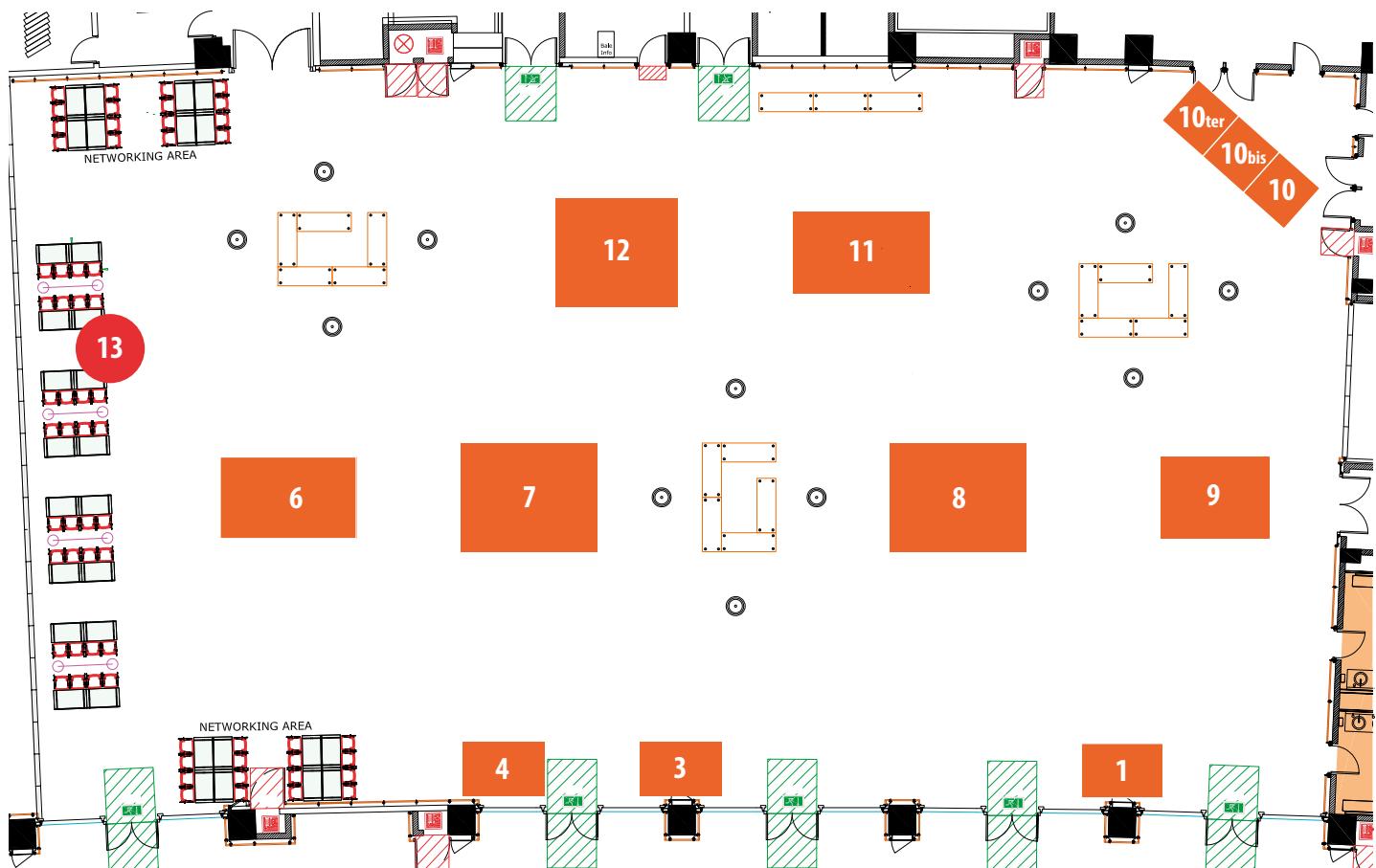
SILVER



EXHIBITORS



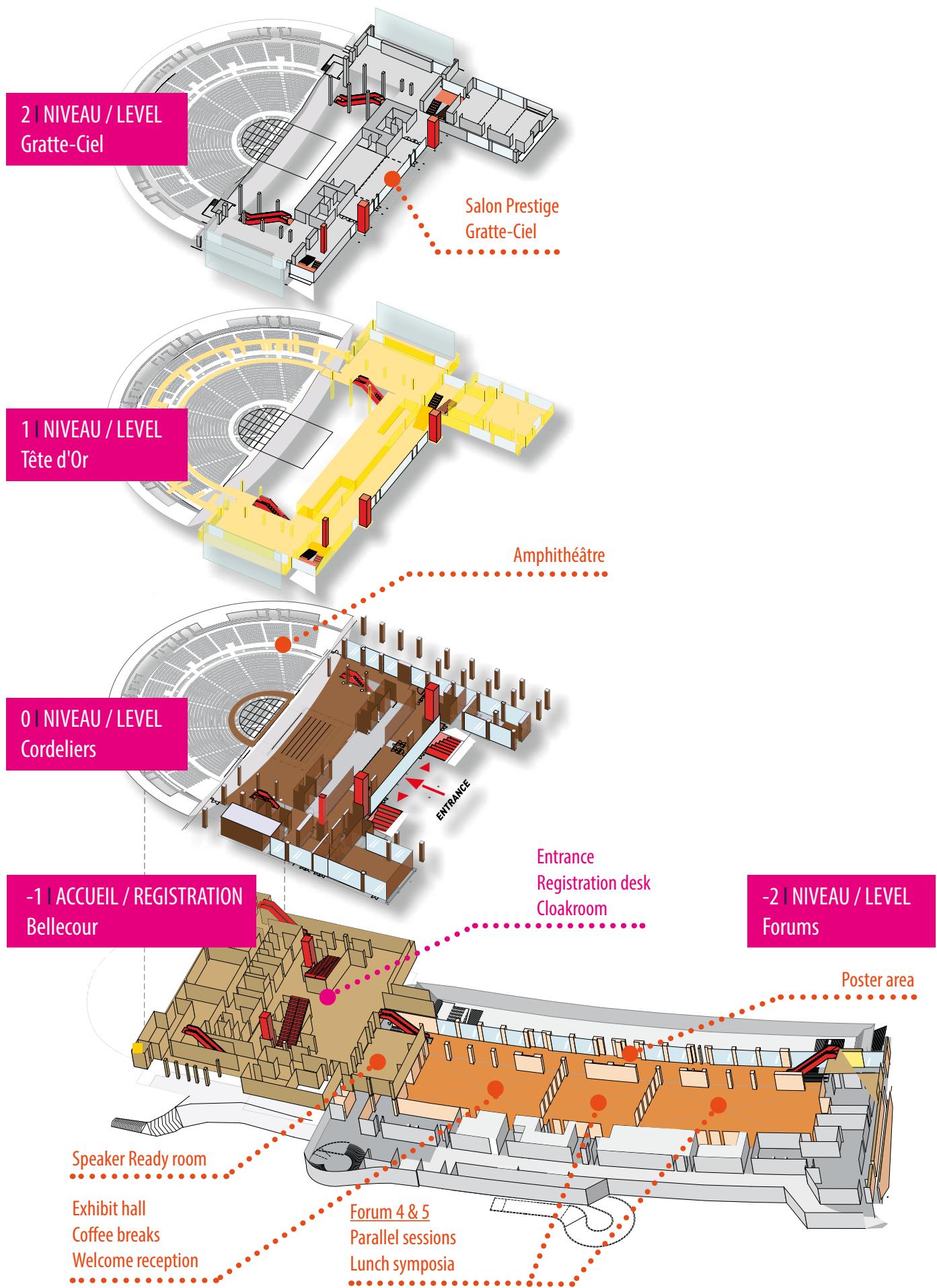
# EXHIBIT FLOORPLAN



HYCOR	1
OPTIMHAL PROTECSTOM	3
TBC	4
AIMMUNE THERAPEUTICS	6
SANOFI	7
ASTRAZENECA	8
STALLERGENES	9

L'OBS DE L'AMBROISIE	10
RNSA	10bis
IRS	10ter
EUROIMMUN	11
BAUSCH & LOMB	12
National Society Village	13

# CONGRESS CENTER MAP



# GENERAL INFORMATION



## LOCATION VENUE

### Cite Internationale

50, quai Charles de Gaulle - 69463 LYON

#### PERSONS WITH DISABILITIES

The conference venue is fully accessible.

#### WEBSITE FOR FURTHER INFORMATION

[www.wac2019-allergy.com](http://www.wac2019-allergy.com)

#### Quick and easy access:

- 10 min from the city center by public transport
- 12 min from Lyon Part Dieu train station
- Less than 30 min from Lyon Saint-Exupéry International Airport
- 15 min from Lyon-Bron Business Airport

## REGISTRATION DESK

### Opening hours

(Level -1 Bellecour)

Wednesday, December 11: 4.00 pm to 7.00 pm

Thursday, December 12: 7.15 am to 7.00 pm

Friday, December 13: 7.15 am to 6.30 pm

Saturday, December 14: 7.45 am to 3.00 pm



The cloakroom will be managed by volunteers of the UNICEF (United Nations International Children's Emergency Fund is an organization that provides humanitarian and developmental assistance to children and mothers in developing countries).

Participants are encouraged to donate to UNICEF when depositing their belongings at the cloakroom. An additional donation will be made by the congress.

## SPEAKER READY ROOM

(Level -1 Bellecour)

Wednesday, December 11: 4.00 pm to 7.00 pm

Thursday, December 12: 7.15 am to 7.00 pm

Friday, December 13: 7.15 am to 6.30 pm

Saturday, December 14: 7.45 am to 2.00 pm

- We recommend using Microsoft PowerPoint (pptx) / Screen size is "16:9"
- Your presentation must be finalized and copied on a USB stick, or an external hard drive
- If your presentation contains videos, remember to copy them in the same folder as the presentation.

**We recommend bringing your presentation in the speaker ready room, at least 2 hours before your lecture.**

You will be welcomed by specialists who will copy and check your presentation with you. In order to keep the schedule, please ensure that you keep to your allotted time frame. A countdown clock will indicate your presentation time progress.

## OFFICIAL LANGUAGE: ENGLISH

## LIABILITY/INSURANCE

The Organizing Committee and WAC 2019 do not accept liability for personal medical expenses, travel expenses, personal injuries sustained or for loss or damage of property belonging to participants or their accompanying persons, either during or as a result of the WAC congress.

## WELCOME RECEPTION AND COFFEE BREAKS



The registration fees include :

- The welcome reception on Thursday, December 12 at 7.30 pm
- All coffee breaks

They will be served in the exhibit hall (Forum 6 / Level -2).

## WIFI



free WiFi

Network: WAC2019

Password: WAC-2019



## MOBILE PHONES

Mobile phones should be switched off during Scientific Sessions.

## MOBILE APP

### WAC 2019 has its own Mobile App!

The App will be available before the congress for download on Apple App Store and Google Play (search with the keyword «WAC 2019») to be used on your mobile phone but also on larger devices like an iPad or a computer. The conference is at your fingertips: discover the program, locate your session room, read the abstracts, learn more about our speakers and so much more!



# GENERAL INFORMATION

## EXHIBIT HALL

Thursday, December 12 : 7.45 am to 9.00 pm

Friday, December 13 : 7.45 am to 7.00 pm

Saturday, December 14 : 7.45 am to 2.30 pm

## POSTERS

Dimensions: height 120-150 cm / width: 90 cm

Fixing material will be handed out at the registration desk

Poster set up: December 12 from 9.00 am

Printed posters will be displayed in the poster area (Foyer Forum / Level -2 next to the exhibit area) from December 12 until December 14 at 11.00 am (any poster left after 12.30 pm on December 14 will be discarded by the conference management).

## REMINDER

We have a special poster presentations highlight on Friday, December 13 during all coffee breaks, we especially encourage you to be present by your poster during these times.

## PROGRAM CHANGES

Organizers are not responsible for any changes in the program due to unforeseen circumstances.

## MEDTECH ACCREDITATION



The World Allergy Congress 2019 is compliant with the provisions of the MedTech Europe Code of Ethical Business Practice.

## CERTIFICATE OF ATTENDANCE

A certificate of attendance will be sent by email the week after the congress.

## BADGE

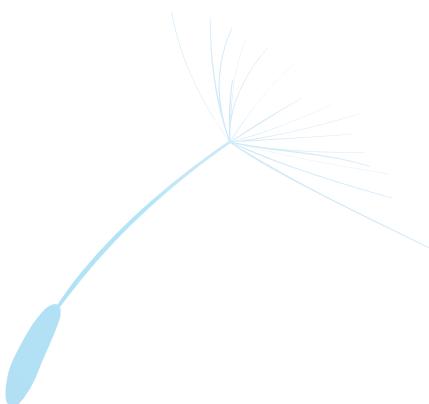
Your badge will be provided along with conference materials, at the registration desk. Participants, speakers and exhibitors are requested to wear the congress badge at all times.

## SOCIAL PROGRAM

Thursday, December 12

### WELCOME RECEPTION

from 7.30 pm  
Exhibition area (Forum 6 / Level -2)



# *Industry-sponsored* **SYMPOSIUM**

*Supported by AstraZeneca*

## **World Allergy Congress 2019**

**Thursday 12 December 2019, 12:15–13:30  
Forum 5, Lyon Cité Internationale, France**

## **Innovation and Perspectives in Asthma Management**

**Chair:** Arnaud Bourdin (France)

### **Chair's Welcome**

Arnaud Bourdin (France)

### **Anti-inflammatory Reliever: Moving Away From SABA-Only Treatment**

Gilles Devouassoux (France)

### **Eosinophils in Asthma and Allergy**

Philippe Gevaert (Belgium)

### **Severe Eosinophilic Asthma: A Targeted Approach With Biologics**

Arnaud Bourdin (France)

### **Audience Q&A and Concluding Remarks**

All

**Audience participation is encouraged throughout the symposium**

ICS/formoterol is not approved only as needed in France

Anti-inflammatory reliever as needed in mild asthma is only licensed in the following countries:  
Australia, Brazil, Canada, New Zealand, Russian Federation and Singapore



## 1<sup>er</sup> comprimé d'immunothérapie allergénique aux acariens



ACARIZAX® est indiqué chez les adultes (âgés de 18 à 65 ans) qui, sur la base d'un diagnostic réunissant une histoire clinique évocatrice et la positivité d'un test de sensibilisation aux acariens de la poussière de maison (prick test cutané et/ou présence d'IgE spécifiques), présentent : • une rhinite allergique aux acariens persistante modérée à sévère insuffisamment contrôlée par les traitements symptomatiques et/ou • un asthme allergique aux acariens insuffisamment contrôlé par les corticostéroïdes inhalés et associé à une rhinite allergique légère à sévère aux acariens. L'asthme du patient doit être soigneusement évalué avant l'instauration du traitement (voir rubrique « contre-indications »).

ACARIZAX® est indiqué chez les adolescents (âgés de 12 à 17 ans) qui, sur la base d'un diagnostic réunissant une histoire clinique évocatrice et la positivité d'un test de sensibilisation aux acariens de la poussière de maison (prick test cutané et/ou présence d'IgE spécifiques), présentent une rhinite allergique aux acariens persistante modérée à sévère insuffisamment contrôlée par les traitements symptomatiques.

Remboursement Sécurité Sociale à 15% chez l'adulte. À ce jour, non remboursable chez l'adolescent (demande d'admission à l'étude).

Avant de prescrire, consultez la place dans la stratégie thérapeutique sur [www.has-sante.fr](http://www.has-sante.fr)

Pour une information complète, consulter le Résumé des Caractéristiques du Produit disponible sur le site internet de l'ANSM ou sur le site internet du laboratoire ALK : [www.alk.fr](http://www.alk.fr).

▼ Ce médicament fait l'objet d'une surveillance supplémentaire qui permettra l'identification rapide de nouvelles informations relatives à la sécurité. Les professionnels de la santé déclarent tout effet indésirable suspecté.

[www.alk.fr](http://www.alk.fr)

**ALK**

\* SQ-HDM est l'unité de dose pour ACARIZAX®. SQ est une méthode de standardisation de la puissance biologique, de la teneur en allergènes majeurs et de la complexité de l'extrait allergénique. HDM est l'abréviation de house dust mite (acarien de la poussière de maison).

# Efficient Benefit of Allergen Immunotherapy in 2020

Thursday, December 12 | 12:15 - 13:30 | Amphithéâtre level 0

## Chairs

Moisés Calderón  
and Pascal Demoly

## Presentations

- |               |  |
|---------------|--|
| 12:15 - 12:20 | Introduction<br>M. Calderón and P. Demoly  |
| 12:20 - 12:40 | Childhood AR and Asthma and development patterns of lung function<br>A. Custovic |
| 12:40 - 13:00 | AIT- A prototype of Precision medicine and Real World Evidence<br>G.W. Canonica  |
| 13:00-13:20   | AIT and patient's benefit<br>D. Caimmi   |
| 13:20-13:30   | Panel discussion<br>All faculty  |

## Lunch Symposium at WAC



# New horizons: Emerging possibilities in the management of atopic dermatitis

## World Allergy Congress 2019

Friday 13 December | 12:45–14:00 | Forum 5 (Level -2)  
Lyon Convention Centre, Cité Internationale Lyon, France

Time	Title	Speaker
12:45–12:50	Introduction	Torsten Zuberbier
12:50–13:05	AD treatment landscape and unmet needs – what we need to know	Torsten Zuberbier
13:05–13:20	Current understanding of the pathogenesis of AD	Audrey Nosbaum
13:20–13:40	Novel treatment approaches in AD	Torsten Zuberbier
13:40–14:00	Panel discussion and close	All faculty

**Symposium is restricted to healthcare professionals only**

This symposium is organised and funded by AbbVie.

Date of preparation: October 2019 | ABBV-AA-00852-E | V1 Approved November, 2019



# Notes

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# Notes

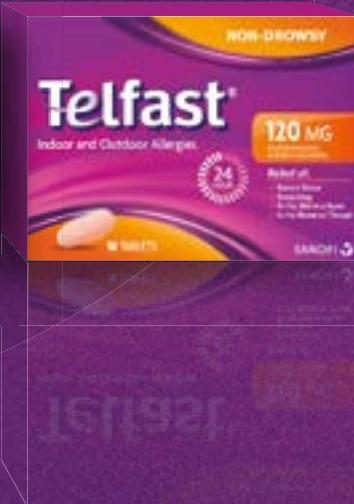
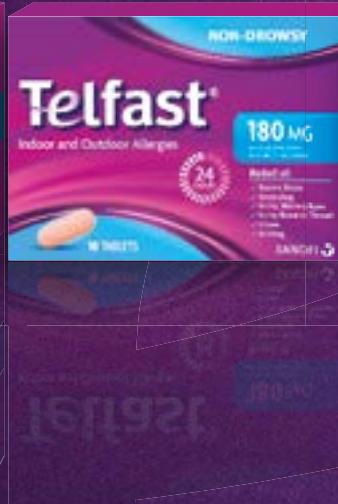
# Notes

# Notes

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# BREAKTHROUGH EVIDENCE FOR ALLERGIC RHINITIS RELIEF



## IMPACT OF AIR POLLUTION ON ALLERGIC RHINITIS

THE CLINICAL EVIDENCE

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13<sup>th</sup> December at 12:45 pm  
Amphithéâtre - Level 0



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