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SMi presents the 4th Annual Conference on...

# Allergies

Leading the debate in standardisation and  
novel therapeutics

HOLIDAY INN KENSINGTON FORUM, LONDON, UK

CONFERENCE: 6TH - 7TH

WORKSHOP: 5TH

JULY  
2017

#### CHAIR FOR 2017:

- **Jean Cuiné**, VP Global Head of Technical Development, **Stallergenes Greer**



#### KEYNOTE SPEAKERS INCLUDE:

- **Andreas Nandy**, Director External Innovation & Partner Management, **Allergo Pharma (Merck KGaA)**
- **Salim Mujais**, Senior Vice President, **Astellas**
- **Hugo Braga Tavares**, Portuguese Alternate Member of Paediatric Committee, **(EMA) representing INFARMED**
- **Dirk-Jan Opstelten**, Research and Development Director, **HAL Allergy**
- **Jerónimo Carnés**, R&D Director of Immunology & Allergy, **LETI**
- **Mohamed Shamji**, Senior Lecturer in Immunology and Allergy, **Imperial College London**
- **Sophie Nuffen**, Group Leader of the Allergy group, **Nestle Research Centre**

#### REASONS TO ATTEND:

- Highlight the latest **innovative strategies** to tackling allergies ranging from **food to pollution**
- Understand and address the **regulatory challenges** facing **standardisation**
- Gain insight into **molecular diagnostics** and **biomarkers** for allergic disease
- Discuss challenges and potential solutions to in **patient recruitment** and **phenology**
- Develop a deeper understanding of the ongoing problems still **facing chronic allergy sufferers**
- Hear about unique **DNA based vaccines** for the treatment of allergies

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PLUS AN INTERACTIVE HALF-DAY PRE-CONFERENCE WORKSHOP | WEDNESDAY 5TH JULY 2017, HOLIDAY INN KENSINGTON FORUM, LONDON, UK

#### Strategies in mitigating poly-sensitisation across different regions

13.30 – 17.30

Workshop Leader:

**Dr Jerónimo Carnés, PhD.**, R&D Director Immunology & Allergy, **LETI**

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08.30 Registration & Coffee

09.00 Chairman's Opening Remarks

Jean Cuiné, VP Global Head of Technical Development,  
Stallergenes Greer

### STANDARDISATION, REGULATION AND CLINICAL TRIALS

#### OPENING ADDRESS

9.10 Allergy product standardisation: The current status and key challenges

- The need for allergen product standardisation and characterisation standardisation
- The challenge of different regulatory requirements for product standardisation
- The challenge of relevant allergen quantification in product standardisation

Jean Cuiné, VP Global Head of Technical Development,  
Stallergenes Greer

9.50 State-of-the art characterisation and control of complex allergen preparations for immunotherapy

- Regulatory demand for manufacturing and quality control
- Case studies on the characterisation and standardisation of modified allergen extracts and final products
- Analytical tools for assessing stability of aluminum hydroxide adsorbed allergen preparations

Rob Van Den Hout, Principal Scientist, HAL Allergy

10.30 Morning Coffee

11.00 Allergic disease and the modern epidemic

- What is the need? Data from a patient website & helpline
- Allergy UK: Our mission, vision and strategy
- How does Allergy UK help?
- Addressing allergic disease in the UK

Amena Warner, Head of Clinical Services, Allergy UK

11.40 Applications and mechanisms of immunotherapy in allergic rhinitis and asthma

- Clinical and immunologic tolerance as hallmarks of successful allergen immunotherapy (AIT)
- Effect of AIT on innate effector cells
- The associated induction of distinct phenotypes of regulatory T and B cells during treatment with allergen immunotherapy
- The identification of novel biomarkers with potential to predict the clinical response to AIT
- Immune mechanisms of novel therapeutic strategies for more effective and safer AIT

Mohamed Shamji, Senior Lecturer (Associate Professor) in Immunology and Allergy, Imperial College London

12.10 Networking lunch

### NOVEL APPROACHES TO ALLERGEN TREATMENT AND IMMUNOTHERAPY

13.30 Recombinant B-cell epitope derived fusion proteins for efficient short course allergy immunotherapy

- The pros and cons of extract based immunotherapy (SCIT and SLIT)
- Design principles of B-cell epitope derived fusion proteins (PCFIT technology)
- Immunological properties of PCFIT vaccines
- Results of clinical evaluation of grass pollen allergy vaccine BM32 based on PCFIT

Rainer Henning, CEO, Biomay AG

14.10 Epicutaneous immunotherapy (EPIT) – A novel pathway

- Immune properties of the skin and EPIT's differentiated mechanism of action
- Future directions for EPIT and the Viaskin platform
- Viaskin Peanut clinical data overview

Lucie Mondoulet, Deputy CSO, DBV Technologies

Christophe Dupont, Chairman of the Scientific Advisory Board, DBV Technologies

14.50 Afternoon Tea

15.20 Hypoallergenic immunotherapeutic drugs for the treatment of respiratory and food allergies

- Introduction to existing and novel approaches to develop hypoallergenic immunotherapies
- Routes of administration
- Benefits of subcutaneous immunotherapy with modified allergens
- Clinical data supporting the efficacy and safety of hypoallergenic immunotherapeutic drugs

Dirk-Jan Opstelten, Research and Development Director, HAL Allergy

#### CLOSING KEYNOTE ADDRESS

16.00 Depigmented allergoids for treating cat and Alternaria allergies

- High quality "named patient products" for treating prevalent allergies
- From raw material to allergen immunotherapy: Manufacturing process and allergen extract characterisation according to the European Guidelines requirements
- Safety designed immunotherapy- measurement of the interaction IgE-Allergen extract during the development process, as a guarantee of safety
- Immunological efficacy as a prerequisite before human treatment: blocking antibodies and stimulation of immunological mediators

Jerónimo Carnés, R&D Director Immunology & Allergy, LETI

16.40 Chair's Closing Remarks and Close of Day One

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## 8.30 Registration &amp; Coffee

## 9.00 Chairman's Opening Remarks

**Jean Cuiné**, VP Global Head of Technical Development, **Stallergenes Greer**

## TARGETED APPROACHES TO ALLERGY PREVENTION IN CHILDREN

## OPENING KEYNOTE ADDRESS

## 9.10 Treatment of grass and birch pollen allergies – comparison of extract based and recombinant strategies

- Products currently on the market
- Clinical experience with recombinants and extracts
- The hypoallergenic concept
- Future developments

**Andreas Nandy**, Director External Innovation & Partner Management, **Allergo Pharma (Merck KGaA)**

## 9.50 Allergens and regulation: The challenge!

- The context of allergen studies
- What is known? What still has to be demonstrated?
- The allergen standard Paediatric investigation Plan (PIP)
- What has happened since Standard Allergen PIP approval?

**Hugo Braga Tavares**, Portuguese Alternate Member of Paediatric Committee (EMA) representing **INFARMED**

## 10.30 Morning Coffee

## KEYNOTE ADDRESS

## 11.00 Using DNA vaccine based technology to prevent potentially life-threatening allergies

- Unique mechanism of action for Astellas' development program for DNA vaccine based therapy
- Lessons learned from conversations with regulatory agency(ies) regarding safety with a first-in-class product
- Obtaining priority designation based on preclinical work, which is unique

**Salim Mujais**, Senior Vice President, **Astellas**

## 11.40 Nutritional approach for allergy prevention during the perinatal period

- Does maternal nutrition (lipids, probiotics, fibres...) have an impact?
- Is there an association between breast milk components and allergy risk in infants? Results from mother/infants cohorts
- Latest results on complementary feeding: is there an intervention window for the introduction of allergens?

**Sophie Nutten**, Group Leader of the Allergy Group, **Nestle Research Centre**

## 12.20 Networking Lunch

## DEVELOPMENTS IN MOLECULAR DIAGNOSTICS AND BIOMARKERS FOR ALLERGIC DISEASE

## 13.30 Purified allergens and immunoassays for molecular diagnostics, product standardisation and food safety

- Purified allergens for allergy research and molecular diagnostics
- Molecular reference standards for allergen standardisation
- Specific immunoassays for quantification of allergens
- Development of multiplex assay for detection of allergens in food

**Hayley Gallagher**, Product and Service Specialist, **Indoor Biotechnology**

## 14.10 Dust mite allergy immunotherapy treatment: The journey so far and oral alternatives

- Understanding methods to defining the correct dosage when administering subcutaneous immunotherapies
- The importance of pain-free alternatives for children: factors to consider when developing an oral allergy vaccines
- The barriers still faced in encouraging clinician uptake of oral vaccines vs. conventional injection therapy

**Tim Higenbottam**, Research & Development Director, **Allergy Therapeutics**

## 14.50 Afternoon Tea

## 15.20 Diagnostic tests in paediatric allergy

- Interpretation of standard IgE sensitisation tests (skin prick testing and serum specific IgE)
  - Dichotomisation or quantification, presence or levels
  - Reference ranges: Age, Gender, Environmental exposures
- Component-resolved diagnostics
- Beyond IgE

**Adnan Custovic**, Clinical Professor of Paediatric Allergy, **Imperial College London**

## CLOSING KEYNOTE ADDRESS

## 16.00 Innovations and trends in allergy diagnostics

- Allergy diagnostics, the evolution of the gold standards
- The advent of more patient friendly mono-immunotherapies is requiring us to rethink allergy diagnostics
- Trends in improving the sensitivity and increasing the clinical applicability of allergy diagnostic tests
- The role for local allergy diagnostics on the horizon

**Kate Rochlin**, Founder & CSO, **Immunovent**

## 16.40 Chair's Closing Remarks and Close of Day Two

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## OFFICIAL PUBLICATIONS



## SUPPORTED BY



## Strategies in mitigating poly-sensitisation across different regions

### Workshop Leader:

**Jerónimo Carnés**, R&D Director Immunology & Allergy, LETI

### Workshop overview:

The majority of allergic patients are poly-sensitised to different allergenic sources. The clinical implications are not fully understood but it is known that, the number of allergens to which patients are sensitised is related to the severity of IgE-mediated symptoms. The introduction of component-resolved diagnosis allows distinguishing poly-sensitised patients between sensitisation to the major allergens of several unrelated allergen extracts and to panallergens. In Northern European countries, where the poly-sensitisation is reduced to a limited number of allergenic sources, allergen immunotherapy for treating poly-sensitised patients is usually limited to a single vaccine containing the allergenic source or mixing allergens of the same homologous group. However, in the Mediterranean countries, poly-sensitisation to different allergenic sources is frequent and the allergen immunotherapy consists on the mixture of different allergenic sources. In the U.S. the immunotherapy prescription usually includes all allergen extracts to which the patient has evidence of clinical sensitivity.

### Key Benefits of Attending:

- Understanding the reality of patients with allergies
- Poly-sensitisation vs. poly-allergy- what are the clinical implications?
- Explore component resolved diagnosis and panallergens for the diagnosis of poly-sensitisation
- How do we treat poly-sensitization? To mix or not to mix

### Programme

**13.30 Registration & Coffee**

**14.00 Opening remarks and introductions**

**14.10 Session 1 - Mono-sensitisation vs. poly-sensitisation**

- All patients are poly-sensitised, even when they are exclusively sensitised to a unique allergenic source
- Types of poly-sensitisation
- Biodiversity and poly-sensitisation: Are they correlated?
- Clinical differences between mono-sensitisation and poly-sensitisation

**14.50 Session 2- Diagnosis of poly-sensitisation as a preliminary step to select the correct immunotherapy**

- Component resolved diagnosis for the correct diagnosis of patients
- How component resolved diagnosis can modify the selection of immunotherapy
- Polysensitisation and allergenic profiles- differences between countries
- In vivo diagnosis with purified panallergens

**15.30 Afternoon Tea**

**16.00 Session 3- How to treat poly-sensitised patients: The concept of allergenic mixtures**

- To mix or not to mix: An unsolved problem
- Pending issues in allergenic mixtures stability and efficacy
- When we may use mixtures and when is not possible: Homologous groups
- Alternatives for treating poly-sensitised patients- designed immunotherapy

**17.20 Closing remarks**

**17.30 Close of workshop**

### About the Workshop Leader:



**Dr Jerónimo Carnés, PhD.** He currently is the R&D Director of Allergy, Immunology and Vaccines for Global Health at Laboratorios LETI, Spain. He started to work as researcher in the Allergy field in 1996. From that point onwards, he has collaborated, designed and directed research projects for the development of Immunotherapy for the treatment of allergic diseases and the research and development of vaccines for parasitic infectious diseases.



## MARCH

### Superbugs & Superdrugs - A Focus on Antibacterials

20th - 21st March 2017, London, UK

### Paediatric Clinical Trials

20th - 21st March 2017, London, UK

### Drug Discovery

27th - 28th March 2017, London, UK

### Asthma & COPD

29th - 30th March 2017, London, UK

## APRIL

### Controlled Release Delivery

3rd - 4th April 2017, London, UK

### Adaptive Designs

3rd - 4th April 2017, London, UK

### Pre-Filled Syringes East Coast

26th - 27th April 2017, Boston, USA

## MAY

### Pharma Freeze Drying Technology

8th - 9th May 2017, London, UK

### Orphan Drugs Europe

15th - 16th May 2017, Berlin, Germany

### Pharma Logistics

18th - 19th May 2017, London, UK

### Pain Therapeutics

22nd - 23rd May 2017, London, UK

### Highly Potent Active Pharmaceutical Ingredients

22nd - 23rd May 2017, London, UK

## JUNE

### Pre-Filled Syringes West Coast

5th - 6th June 2017, San Diego, USA

### Microbiology USA

8th - 9th June 2017, San Diego, USA

### Immunogenicity

12th - 13th June 2017, London, UK

### BioBanking

14th - 15th June 2017, London, UK

### In Vitro Diagnostics

14th - 15th June, London, UK

## JULY

### Allergies

6th - 7th July 2017, London, UK

### Peptides

6th - 7th July 2017, London, UK

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# ALLERGIES

Conference: 6th – 7th July 2017, Holiday Inn Kensington Forum, London, UK Workshop: 5th July 2017, London

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