

Fri 4 Nov  
08:45 - 09:00 | **Opening Ceremony**  
Session

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Fri 4 Nov  
09:00 - 10:30 | **Joint ISMA & RHINA Plenary 1 – Molecular Approaches to Immunotherapy: what’s new**

Track 1 ISMA Plenary

Chair : P. Matricardi (Berlin, Germany), M. Shamji (London, United Kingdom)

- To discuss the role and applied molecular approaches of allergen immunotherapy.
- To describe and discuss the potential role of viral like particles in allergy vaccines.
- To describe the utility of molecular allergology in prevention of allergic diseases and therapeutics.

09:00 **A Future Perspective for Molecular AIT: What is thinkable – what doable?**  
L.K. Poulsen (Copenhagen, Denmark)

09:30 **Virus Like Particles as Allergy Vaccines**  
M. Bachmann (Bern, Switzerland)

10:00 **Precision Allergology: lessons learnt from the MedALL project**

Fri 4 Nov  
10:45 - 12:00 | **ISMA Interactive Workshop 1: Potential and Limitations of BAT & Co**  
Zoom room Interactive Method Workshops

Chair : B. Eberlein (München, Germany), H.J. Hoffmann (Århus C, Denmark)

Special sessions which allow delegates to meet in small groups with outstanding researchers and clinicians in the field. This format is designed to facilitate informal discussions, **allowing participants to present their questions and gain new insights.**  
Access is limited and reserved to pre-registered participants. **The cost is 10 EUR per sessions to be charged** in addition to the ISMA-RHINA Digital 2022 registration fees.

Fri 4 Nov  
**10:45 - 12:00** | **ISMA Symposium 1 – Molecular Diagnosis**

Track 1 ISMA Symposium

Chair : K. Hoffmann-Sommergruber (Wien, Austria)

- To describe and discuss the EAACI Molecular Allergy Users Guide 2022.
- To describe and discuss High Sensitivity Assays for Epitope Mapping.

**10:45**     **EAACI Molecular Allergy Users Guide: Update 2022**

C. Hilger (Esch-sur-Alzette, Luxembourg)

**11:05**     **High Sensitivity Assays for Epitope Mapping**

J. Martínez-Botas (Madrid, Spain)

**11:25**     **Oral présentations 1 to 3**

Fri 4 Nov  
**10:45 - 12:00** | **RHINA Symposium 1 – Biologicals in CRSwNP**

Track 2 RHINA Symposium

Chair : C. Bachert (St. Martens-Latem, Belgium), S. Toppila-Salmi (Helsinki, Finland)

- To discuss why, when, and how biologicals should be used in CRSwNP.
- To discuss the importance of subgroup analyses in phase-III trials
- To describe and discuss when switching biological is warranted.

**10:45**     **A difficult story made simple: when, why and how biologicals in CRSwNP?**

W. Fokkens (Amsterdam, Netherlands)

**11:10**     **What do we learn from subgroup analyses in phase-III trials?**

**11:35**     **“Unusual cases”: switching, multiple biologicals, surgery under biologicals**

Fri 4 Nov  
**12:15 - 13:30** | **ISMA Flash Talks session 1**

Track 1 ISMA Oral Poster session

Fri 4 Nov  
**12:15 - 13:30** | **ISMA Flash Talks session 2**

Track 1 ISMA Oral Poster session

Fri 4 Nov  
**12:15 - 13:30** | **RHINA Flash Talks session 1**

Track 2 RHINA Oral Poster session

Fri 4 Nov  
12:15 - 13:30

## RHINA Flash Talks session 2

Track 2 RHINA Oral Poster session

Chair : A. Karavelia ( Chania, Greece)

Fri 4 Nov  
13:45 - 15:00

## RHINA Interactive Method Workshop 1: How to organize your AIT - Clinic

Zoom room Interactive Method Workshops

Chair : O. Pfaar (Marburg, Germany), E. Heffler (Pieve Emanuele, Italy)

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13:45 **What is practically needed?**

13:55 **AIT in children – the uncovering of the secrets**

14:05 **AIT in COVID-19**

14:15 **How to keep patients in AIT**

Q&A

Fri 4 Nov  
13:45 - 15:00

## ISMA Symposium 2 – Allergen Structure and Determinants of Allergenicity

Track 1 ISMA Symposium

- To describe and discuss the basic and theoretical aspects of allergens
- To describe and discuss the role of small molecules and their role in allergic sensitization

13:45 **Basic and theoretical aspects of allergens**

F. Ferreira (Salzburg, Austria)

14:05 **Small molecules and their role in allergic sensitization**

14:25 **Oral Presentations 4 to 6**

Fri 4 Nov  
13:45 - 15:00

## RHINA Symposium 2 - COVID-19 and Upper Airways: more than olfactory loss

Track 2 RHINA Symposium

Chair : C. Hopkins (London, United Kingdom), R. Brehler (Münster, Germany)

To understand and discuss the mechanisms and clinical signs of COVID-19 infection in the upper airways

13:45 **Basics on Olfaction**  
T. Hummel (Dresden, Germany)

14:04 **Olfaction in COVID-19**  
C. Hopkins (London, United Kingdom)

14:23 **Update on Parosmia in COVID-19 and beyond**  
S. Gane (London, United Kingdom)

14:42 **Different symptoms of COVID-19 in different virus variants**  
J. Hagemann (Mainz, Germany)

Fri 4 Nov  
15:15 - 16:30

## ISMA Interactive Workshop 2: Clinical Allergology for the Scientist

Zoom room Interactive Method Workshops

Chair : K. Brockow (Munich, Germany), E. Knol (Utrecht, Netherlands)

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Fri 4 Nov  
15:15 - 16:30

## ISMA Symposium 3 – Cross-Reactivity and Clinical Relevance of Functional in vitro Tests

Track 1 ISMA Symposium

- To describe and discuss the functional in vitro tests used in confirming clinical relevance.
- To describe and discuss new cross-reactive allergens.

15:15 **Functional in vitro tests for confirming clinical relevance?**  
A. Santos (London, United Kingdom)

15:35 **New cross-reactive allergens**

15:55 **Oral Presentations 7 to 9**

Fri 4 Nov  
15:15 - 16:30

## RHINA Symposium 3 – Immunomodulation and new therapeutic approaches in AR

Track 2 RHINA Symposium

Chair : N. Novak (Bonn, Germany)

- To describe and discuss the treatments that modulate the microbiome in CRS
- To describe and discuss how mikronutrition affects allergic rhinitis

15:15 **Treatments altering the Microbiome in CRS**

15:40 **Mikronutrition is altering allergic rhinitis**

16:05 **Immune modulation in local allergic rhinitis**

I. Eguiluz-Gracia (Malaga, Spain)

Fri 4 Nov  
16:45 - 18:15

## ISMA Plenary 1 – News in Food Allergy

Track 1 ISMA Plenary

- To describe and discuss how allergens eliciting anaphylactic reactions
- To describe and discuss new update on AIT of Food Allergy
- To describe and discuss induction of tolerance to food allergens by prebiotic intervention

16:45 **Food Allergens Eliciting Anaphylactic Reactions**

B. Ballmer-Weber (St. Gallen, Switzerland)

17:15 **Update on AIT of Food Allergy**

M. Ebisawa (Sagamihara, Japan)

17:45 **Induction of Tolerance to Food Allergens by Prebiotic Intervention**

M.J. Torres (Malaga, Spain)

Fri 4 Nov  
16:45 - 18:15

## RHINA Plenary 1 - The reunion of upper and lower airways

Track 2 RHINA Plenary

Chair : L. Klimek (Wiesbaden, Germany), S. Toppila-Salmi (Helsinki, Finland)

- To describe and discuss the relevance of multidimensional endotyping in asthma.
- To describe and discuss how machine learning and artificial intelligence is useful in predicting transcriptomic phenotypes in the asthmatic airways.
- To describe and discuss how epithelial cell responses to rhinovirus can identify an early-life-onset asthma phenotype in adults.

16:45 **Multidimensional endotyping in asthma: what can we learn for AR ?**

I. Agache (Brasov, Romania)

17:15 **Nasal proteomics signatures identified by artificial intelligence and machine learning predicts transcriptomic phenotypes in the asthmatic airways**

17:45 **Epithelial cell responses to rhinovirus identify an early-life-onset asthma phenotype in adults**

E. Chang (, United States of America)

 Saturday 5 November

ISMA-RHINA

Sat 5 Nov  
09:00 - 10:30

## Joint ISMA & RHINA Plenary 2 – Allergology and Covid-19

Track 1 ISMA Plenary

Chair : C. Akdis (Davos, Switzerland), J. Bousquet (Montpellier, France)

- To describe and discuss the effect of Allergy and Asthma as a Comorbidity on the Susceptibility and Outcomes of Covid-19.
- To describe and discuss the potential effects of Covid vaccines on AIT and Biologicals.
- To discuss lesson learned from the pathogenesis of SARS-COV2 and covid -19 pandemic.

09:00 **Immunology and risk factors for severe illness in Covid-19**

M. Sokolowska (Davos, Switzerland)

09:30 **AIT, Biologicals and Covid vaccination**

M. Jutel (Wrocław, Poland)

10:00 **Lesson learned from the pathogenesis of SARS-COV2**

Sat 5 Nov  
10:45 - 12:00

## ISMA Interactive Workshop 3: Carbohydrates as IgE Epitopes

Zoom room Interactive Method Workshops

Chair : M. van Hage (Solna, Sweden)

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Sat 5 Nov

10:45 - 12:00

## ISMA Symposium 4 – Allergen Exposure and Quantitation

Track 1 ISMA Symposium

- To discuss and describe novel methodologies for detection and quantification of Food Allergens
- To discuss and describe how to measurement of Occupational und Indoor Allergens

### 10:45 Detection and Quantification of Food Allergens

T. Holzhauser (Langen, Germany)

### 11:05 Measurement of Occupational und Indoor Allergens

M. Raulf (Bochum, Germany)

### 11:25 Oral Presentations 10 to 12

Sat 5 Nov

10:45 - 12:00

## RHINA Symposium 4 – Nonallergic Rhinitis

Track 2 RHINA Symposium

Chair : S. Becker (Tübingen, Germany)

- To discuss the effectiveness of the EAACI guideline on NAR and whether it needs to be updated.
- To described and discuss what is nasal hyperactivity
- To describe and discuss current care pathways of the national digital programs

### 10:45 EAACI Guideline on NAR: does it need to be updated?

I. Eguiluz-Gracia (Malaga, Spain)

### 11:10 Nasal Hyperreactivity

### 11:35 Care pathways of the National digital programs

Sat 5 Nov

12:15 - 13:30

## ISMA Flash Talks session 3

Track 1 ISMA Oral Poster session

Sat 5 Nov

12:15 - 13:30

## ISMA Flash Talks session 4

Track 1 ISMA Oral Poster session

Sat 5 Nov

12:15 - 13:30

## RHINA Flash Talks session 3

Track 2 RHINA Oral Poster session

Chair : C. Bergmann (Düsseldorf, Germany)

Sat 5 Nov

12:15 - 13:30

## RHINA Flash Talks session 4

Track 2 RHINA Oral Poster session

Chair : C. Rondon (Málaga, Spain)

Sat 5 Nov

13:45 - 15:00

## RHINA Interactive Method Workshop 2: Nasal sampling and provocation

Zoom room Interactive Method Workshops

Special sessions which allow delegates to meet in small groups with outstanding researchers and clinicians in the field. This format is designed to facilitate informal discussions, **allowing participants to present their questions and gain new insights.**

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13:45 **Standardized Nasal sampling**

13:55 **Nasal cytology – from cell counting to artificial intelligence**

14:05 **The Art of Nasal provocation testing**

14:15 **Ocular, nasal, bronchial challenges: concordances and differences**

Q&A

Sat 5 Nov

13:45 - 15:00

## ISMA Symposium 5 – Impact of Chemical Modification on Immunological Effects of Allergens

Track 1 ISMA Symposium

- To describe what are advanced glycation end products and allergy
- To describe lipid modification of allergens

13:45 **Advanced Glycation End Products and Allergy**

M. Toda (Sendai, Japan)

14:05 **Lipid Modification of Allergens**

14:25 **Oral Presentations 13 to 15**



Sat 5 Nov

13:45 - 15:00

## RHINA Symposium 5 – Basic Immunology of CRS

Track 2 RHINA Symposium

- To describe and discuss epithelial inflammatory memory in CRS
- To describe and discuss experimental models for CRS
- To describe and discuss Transcriptomics in CRS and beyond

13:45 Epithelial inflammatory memory in CRS

14:10 Experimental models for CRS

V. Hox (Brussels, Belgium)

14:35 Transkriptomics in CRS and beyond

P.V. Tomazic (Graz, Austria)

Sat 5 Nov

15:15 - 16:30

## RHINA Interactive Method Workshop 3: E-Health

Zoom room Interactive Method Workshops

Chair : J. Bousquet (Montpellier, France), G.W. Canonica (MILAN, Italy)

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15:15 Register-based studies: Associations of CRS with risk of non-cystic fibrosis bronchiectasis

15:25 Care pathways of the National digital programme in Finland

15:35 Are we ready for E-Health and telemedicine in AIT?

Sat 5 Nov

15:15 - 16:30

## ISMA Interactive Workshop 4: Insect Venom Allergens

Zoom room Interactive Method Workshops

Chair : S. Blank (Munich, Germany), B.M. Bilò (Ancona, Italy)

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Sat 5 Nov  
15:15 - 16:30

## ISMA Symposium 6 – Lifestyle and Environmental Changes and new allergens

Track 1 ISMA Symposium

- To describe and discuss edible insects allergens, cross-Reactivity and effects of Food Processing
- To describe and discuss vegan diet - alternative protein sources as potential allergy risk

15:15 **Edible insects - Allergens, Cross-Reactivity and Effects of Food Processing**

15:35 **Vegan Diet - Alternative Protein Sources as Potential Allergy Risk**

U. Jappe (Borstel, Germany)

15:55 **Oral Presentations 16 to 18**

Sat 5 Nov  
15:15 - 16:30

## RHINA Symposium 6 – New Biologicals for Upper Airway diseases: are we there yet?

Track 2 RHINA Symposium

Chair : O. Palomares (Madrid, Spain)

- To describe and discuss the immunological basis for new biologicals
- To describe and discuss how to evaluate and manage of exacerbations of asthma while being treated with Biologicals
- To describe and discuss non-T2 directed biologicals

15:15 **What is the immunological basis for new biologicals?**

O. Palomares (Madrid, Spain)

15:40 **Evaluation and management of exacerbations of asthma while being treated with biologicals**

16:05 **Non-T2 directed biologicals**

D.Y. Wang (Singapore, Singapore)

Sat 5 Nov  
16:45 - 18:15

## ISMA Plenary 2 – Novel tools and targets for allergy diagnosis and treatment

Track 1 ISMA Plenary

- To describe and discuss molecular engineering of novel tools for allergy diagnostics
- To describe and discuss novel cell based assays in allergy diagnostics
- To describe and discuss monoclonal antibodies for treatment of food allergy

16:45 **Molecular engineering of novel tools for allergy diagnostics**

E. Spillner (Aarhus, Denmark)

17:15 **Novel cell based assays in allergy diagnostics**

A. Eggel (Bern, Switzerland)

17:45 **Monoclonal Antibodies for Treatment of Food Allergy**

Sat 5 Nov

16:45 - 18:15

## RHINA Plenary 2 - Immunology for patient care – the missing link

Track 2 RHINA Plenary

Chair : L. Klimek (Wiesbaden, Germany)

- To learn about the important role of airway epithelia for allergic and inflammatory diseases
- To get accustomed to strategies of translational research
- To learn about endotyping and biomarkers for Severe upper airway inflammation

16:45 **The epithelial barrier and its role in inflammation of the nose and sinuses**

C. Akdis (Davos, Switzerland)

17:15 **Translational Research: The Art of bringing T-cells to bedside**

M. Ollert (Esch-sur-Alzette, Luxembourg)

17:45 **CRS and Severe upper airway inflammation: Endotypes and biomarkers**

S. Toppila-Salmi (Helsinki, Finland)

Sat 5 Nov

18:15 - 18:30

## Closing Ceremony

Session

18:15 **Closing Ceremony**