



EAACI
EUROPEAN ACADEMY OF ALLERGY
AND CLINICAL IMMUNOLOGY

Winter
School 

IMMUNOLOGY WINTER SCHOOL 2026



15 - 18 January



Sierra Nevada, Spain



EAACI.org



 Thursday 15 January

EAACI Winter School 2026

Thu 15 Jan

16:00 - 17:00

Registration

Hall in front of Salon Dauro, Level S Others

Thu 15 Jan

17:00 - 18:00

Welcome Drink

Cocktail & Bar "Alma", Level S Others

Thu 15 Jan

18:00 - 18:30

Opening ceremony

Salon Dauro, Level S Session

18:00

Opening ceremony

Alexandra Santos (United Kingdom), Jolanta Walusiak-Skorupa (Poland)

Thu 15 Jan

18:30 - 19:30

Keynote 1

Salon Dauro, Level S Keynote

Chair : Andrzej Eljaszewicz (Poland), Cristobalina Mayorga (Spain)

18:30

Systems-level analyses of immune system development in humans

Petter Brodin (Sweden)

Thu 15 Jan

19:30 - 21:00

Dinner

Restaurant "Veleta", Level C Others

Thu 15 Jan

21:00 - 22:00

Poster Session I - Topic 1 Innate immunity

Monachil+Guejar+Dilar, Level H Poster Session

Chair : Erik Wambre (United States of America), Milena Sokolowska (Switzerland), Andrzej Eljaszewicz (Poland)

- P01 Dose-dependent effects of polystyrene nanoplastics on human bronchial smooth muscle cell growth and morphology**
Magdalena Pietrzak (Poland)
- P02 Antioxidant enzymes activities and genetic variants associated with nonsteroidal anti-inflammatory drug cross-hypersensitivity**
Isabel María Jiménez-Sánchez (Spain)
- P03 Thymic Stromal Lymphopoietin (TSLP) imprints a metabolic reprogramming in human CD1c+ myeloid dendritic cells promoting Th2 polarization**
Isabel Peñalver (Spain)
- P04 Modulation of NK cell subsets in response to anti IL-5r in patients with severe asthma**
Laura Bergantini (Italy)
- P05 CD300f receptor and its variant CD300f R218Q regulate mast cell and macrophage activity**
Lihong Song (Spain)
- P06 Exploring the role of lipids on initiation of allergenic response in innate lymphoid cells**
Diana Schnögl (Austria)
- P07 Drug-Immediate Hypersensitivity Studies and Activation-Related Effects of Exposome Components in Isolated Basophils**
Silvia Calvo-Serrano (Spain)
- P08 The influence of immunosuppressive mesenchymal stem cells (MSCs) on the regulation of arachidonic acid metabolism and its derivatives signaling in low T2 inflammation in the experimental asthma model**
Marlena Tynecka (Poland)
- P09 Developing Immunocompetent 3D melanoma models to Investigate Tumour-Immune Interactions and Immunotherapies**
Xinyi Chen (United Kingdom)
- P10 A Multi-Omic Approach to Identifying Inflammatory Endotypes within Healthy Individuals**
Huseyn Babayev (Switzerland)

Thu 15 Jan
21:00 - 22:00 | **Poster Session I - Topic 2 Adaptive immunity**
 Monachil+Guejar+Dilar, Level H Poster Session

Chair : Petter Brodin (Sweden), Joana Vitte (France), Jitesh Chauhan (United Kingdom)

- P12** **Assessing mRNA expression and DNA methylation status of immune checkpoints in COVID-19 patients: a comparative study**
 Ensie Sadat Mirsharif (Iran, Islamic Republic of)
- P13** **Droplet microfluidics detection of human IgE-secreting cells in humanized transgenic mouse models**
 Sophie Shyfrin (France)
- P14** **Assessing Immune Memory against SARS-CoV-2 in COVID-19 Vaccine Recipients in the Indian Population**
 K Mohan Reddy (India)
- P15** **The role of differential expression of HR1 and HR2 on B cells and their functions**
 Minglin Yang (Switzerland)
- P16** **Shared T-cell clonal expansions identified in peripheral blood of patients with systemic lupus erythematosus**
 Dariya Rainio (Moscow)
- P17** **Characterization of provocation-induced changes in transcription factors in the nasal mucosa of birch pollen-allergic and non-allergic individuals**
 Giovanni Lamorte (Austria)
- P18** **Decoding the genetic landscape in granulomatous diseases: a comparative bioinformatics approach integrating sarcoidosis and CVID as a model to explore GLILD**
 Giulia Gualtieri (Netherlands)
- P19** **Differential engulfment of extracellular vesicles by endothelial and peripheral blood mononuclear cells in anaphylaxis**
 Sergio Fernandez-Bravo (Spain)
- P20** **Persistent Off-Season Dysregulation of Memory B Cell Subsets in Allergic Rhinitis**
 Maryam Jafari (Sweden)

Friday 16 January

EAACI Winter School 2026

Fri 16 Jan
08:00 - 09:00 | **Keynote 2**
 Salon Dauro, Level S Keynote

Chair : Cristobalina Mayorga (Spain), Francesco Cinetto (Italy)

- 08:00** **Regulatory B cells: one population, two opposite functional outcome**
 Claudia Mauri (United Kingdom)

Fri 16 Jan
09:00 - 09:20 | **Coffee Break**
 Cocktail & Bar "Alma", Level S Others

Fri 16 Jan
09:20 - 11:00 | **Oral Abstracts Presentation I**

Salon Dauro, Level S Oral Abstracts Presentation

Chair : Christoph Schneider (Switzerland), Alessandra Vultaggio (Italy)

09:20 | **Human memory CD4⁺T cells induce hyperresponsiveness in mast cells**

001 Jiajun He (Germany)

09:45 | **Testosterone and Estrogen Differentially Regulate Human CD4⁺ T-Cell Responses During Gender-Affirming Hormone Therapy**

002 Sebastian Riemann (Belgium)

10:10 | **Immunomodulatory Potential of MAIT Cells in type 2 inflammation: synergy of alarmins and antigen-independent signals drive a potent Th1-biased MAIT cell phenotype**

003 Carlota García-Escribano (Spain)

10:35 | **Cannabinoids promote tolerogenic DCs via epigenetic reprogramming, ceramide and extracellular vesicle production able to polarize Tregs**

004 Angel Maldonado (Spain)

Fri 16 Jan
11:00 - 13:30 | **Break**

Others

Fri 16 Jan
13:30 - 14:15 | **Lecture**

Salon Dauro, Level S Session

Chair : Rosa Muñoz-Cano (Spain), Erika von Mutius (Germany)

13:30 | **The Epithelial Barrier Theory**

Cezmi Akdis (Switzerland)

Fri 16 Jan
14:30 - 16:15 | **Interactive workshop: Streamlined immunology assays for clinical trials**

Salon Dauro, Level S Interactive Workshop

Chair : Alexandra Santos (United Kingdom), Milena Sokolowska (Switzerland)

14:30 | **Streamlined immunology assays for clinical trials**

Erik Wambre (United States of America)

14:45 | **Break out groups**

Cristina Gomez-Casado (Germany), Rosa Muñoz-Cano (Spain), Chrysanthi Skevaki (Germany), Joana Vitte (France), Alessandra Vultaggio (Italy), Francesco Cinetto (Italy), Andrzej Eljaszewicz (Poland), Cristobalina Mayorga (Spain), Sophia Karagiannis (United Kingdom)

15:35 | **Panel discussion**

Petter Brodin (Sweden), Cezmi Akdis (Switzerland), Christoph Schneider (Switzerland), Jean-Philippe Girard (France), Erik Wambre (United States of America), Claudia Mauri (United Kingdom), Erika Von Mutius (Germany)

Fri 16 Jan
16:30 - 17:30

Keynote 3

Salon Dauro, Level S Keynote

Chair : Sophia Karagiannis (United Kingdom), Cristina Gomez-Casado (Germany)

16:30 **Mucosal barriers and alarmins in allergic inflammation**

Jean-Philippe Girard (France)

Fri 16 Jan
17:30 - 17:50

Coffee Break

Cocktail & Bar "Alma", Level S Others

Fri 16 Jan
17:50 - 19:30

Oral Abstracts Presentation II

Salon Dauro, Level S Oral Abstracts Presentation

Chair : Erik Wambre (United States of America), Thomas Eiwegger (Austria)

17:50 **Microbial metabolism of food allergens by human oral bacteria alters IgE-mediated anaphylaxis**

005

Lucía Moreno-Serna (Spain)

18:15 **Allergen desensitization induces metabolic and transcriptomic changes in mast cells**

006

Alessandra Ruiz Sánchez (Spain)

18:40 **Maternal systemic IgG as a window into microbial exposures in term and preterm pregnancies**

007

Margareta Mayer (United States of America)

19:05 **Monocytes and macrophages in the melanoma tumour microenvironment express Fc receptors which can be engaged with monoclonal antibodies of different isotypes**

008

Rebecca Adams (United Kingdom)

Fri 16 Jan
19:30 - 21:00

Dinner

Restaurant "Veleta", Level C Others

Fri 16 Jan
21:00 - 22:00 | **Poster Session II - Topic 3 Immunotherapy and biologicals**
 Monachil+Guejar+Dilar, Level H Poster Session

Chair : Claudia Mauri (United Kingdom), Alessandra Vultaggio (Italy), Rosa Muñoz-Cano (Spain)

- P22 Exploring the Impact of Ondansetron Administration on Acute FPIES Reactions Through Multi-Tissue, Multi-Modal Transcriptomics**
 Julián Montoto-Louzao (Spain)
- P23 Assessing FcεRI expression optimizes patient management in oral immunotherapy with Omalizumab**
 Aina Bruch Tàrrega (Spain)
- P24 PH-Triggered Co-delivery of a Non-nucleotidic STING Agonist and an NLRP3 Inhibitor Enhances Type-I IFN while Restraining Inflammasome Activity**
 Bahareh Farasati Far (Iran, Islamic Republic of)
- P25 Clinical and immune profile of newborns born to mothers with inflammatory diseases exposed to biological drugs during pregnancy**
 Gilda Yáñez Lema (Spain)
- P26 Investigating Granulomatous and Lymphocytic Interstitial Lung Disease (GLILD) in patients with Common Variable Immunodeficiencies (CVIDs): preliminary results of a multicenter retrospective observational study**
 Helena Buso (Italy)

Fri 16 Jan
21:00 - 22:00 | **Poster Session II - Topic 4 Microbiome and metabolism**
 Monachil+Guejar+Dilar, Level H Poster Session

Chair : Francesco Cinetto (Italy), Thomas Eiwegger (Austria), Cristina Gomez-Casado (Germany)

- P11 Role of genetic variants in shaping risk and clinical profiles of NSAID induced hypersensitivity**
 Sofia Ladera-Navarro (Spain)
- P27 Arginine metabolism and systemic inflammatory indices as prognostic and predictive biomarkers for Cetuximab combined with chemotherapy in wt-KRAS human colorectal cancer**
 Djehane Houria MATAAM (Algeria)
- P28 Food emulsifier polysorbate 80 causes inflammation, microbial dysbiosis and gut barrier dysfunction**
 Can Zeyneloglu (Switzerland)
- P29 Mitochondrial function is implicated in inflammation and disturbed T cell function in smoke exposure and COPD**
 Thilo Berger (Germany)
- P30 Halophilic archaea, Halorhabdus rudnickae, have a positive effect on the quality of the epithelial barrier in a model using the Calu-3 cell line**
 Krzysztof Krawczyk (Poland)
- P31 Mechanisms and functions of type 2 immunity against enteropathogenic bacteria**
 Bihua Chen (Austria)

📅 Saturday 17 January

EAACI Winter School 2026

Sat 17 Jan

08:00 - 09:00

Keynote 4

Salon Dauro, Level S Keynote

Chair : Rosa Muñoz-Cano (Spain), Cristobalina Mayorga (Spain)

08:00

Hygiene hypothesis revisited: the immune mechanisms underlying the farming effect

Erika Von Mutius (Germany)

Sat 17 Jan

09:00 - 09:20

Coffee Break

Cocktail & Bar "Alma", Level S Others

Sat 17 Jan

09:20 - 11:00

Oral Abstracts Presentation III

Salon Dauro, Level S Oral Abstracts Presentation

Chair : Erika von Mutius (Germany), Joana Vitte (France)

09:20

009

Type-3 Cytokine Driven Regulation of the Mucosal E3 Phenotype Underlies Epithelial Barrier Dysfunction in Asthma

Helen Charles (Germany)

09:45

010

Immunometabolism of RIG-I signalling in the Lower Airway Epithelium in Patients with Asthma

Inés Jardón Parages (Switzerland)

10:10

011

MV130 drives the differentiation of human monocytes into dendritic cells with antiallergic phenotype

Silvia Sánchez Herrero (Spain)

10:35

012

Immune-Mediated Regulation of Bronchial Smooth Muscle Proteins: A Potential Protective Role of MAPK13 in Asthma

Ruben Fernandez-Santamaria (Spain)

Sat 17 Jan

11:00 - 12:30

Networking Hour

Cocktail & Bar "Alma", Level S Others

11:00

Networking Hour

Alexandra Santos (United Kingdom), Andrzej Eljaszewicz (Poland), Cristina Gomez-Casado (Germany), Cristobalina Mayorga (Spain), Rosa Muñoz-Cano (Spain), Milena Sokolowska (Switzerland), Thomas Eiwegger (Austria), Chrysanthi Skevaki (Germany), Jitesh Chauhan (United Kingdom), Joana Vitte (France), Alessandra Vultaggio (Italy), Sophia Karagiannis (United Kingdom), Francesco Cinetto (Italy), Jean-Philippe Girard (France), Erik Wambre (United States of America), Erika Von Mutius (Germany), Jeffrey Drazen (United States of America), Cezmi Akdis (Switzerland), Christoph Schneider (Switzerland)

Sat 17 Jan

12:30 - 16:30

Break

Others

Sat 17 Jan

16:30 - 17:30

Keynote 5

Salon Dauro, Level S Keynote

Chair : Alexandra Santos (United Kingdom), Jitesh Chauhan (United Kingdom)

16:30

Epithelial cells – central nodes in innate immunity

Christoph Schneider (Switzerland)

Sat 17 Jan

17:30 - 17:50

Coffee Break

Cocktail & Bar "Alma", Level S Others

Sat 17 Jan

17:50 - 19:30

Oral Abstracts Presentation IV

Salon Dauro, Level S Oral Abstracts Presentation

Chair : Milena Sokolowska (Switzerland), Cristina Gomez-Casado (Germany)

17:50
013**Effects of corticosteroids and pH-modulating emollients on barrier function, microbial colonization and immune regulation in atopic dermatitis**

Berkay Berk (Germany)

18:15
014**Novel Nrf-2 activator can effectively alleviate atopic dermatitis-like skin symptoms and promoted a miRNA profile associated with anti-aging and healthy skin in DNCB-induced atopic dermatitis mouse model**

Basak Ezgi Sarac (Türkiye)

18:40
015**Exploring the potential therapeutic capacity of the synthetic cannabinoid WIN55,212-2 in the context of atopic dermatitis by restoring skin homeostasis**

Natalia Cuervo López (Spain)

19:05
016**A beta-lactoglobulin based food for specific medical purposes attenuates atopic dermatitis in mice by restoring skin barrier function and modulating inflammatory pathways**

Hanna Mayerhofer (Austria)

Sat 17 Jan

19:30 - 21:00

Dinner

Restaurant "Veleta", Level C Others

Sat 17 Jan
21:00 - 22:00

Poster Session III - Topic 5 Basophils and mast cells

Monachil+Guejar+Dilar, Level H Poster Session

Chair : Cristobalina Mayorga (Spain), Rosa Muñoz-Cano (Spain), Sophia Karagiannis (United Kingdom)

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| P33 | Diagnostic Utility of the Mast Cell Activation Test in Immediate Amoxicillin Hypersensitivity
Jose Antonio Céspedes (Spain) |
| P34 | AllergoOncology: Basophil stimulation propensity in cancer and the basophil activation test (BAT) in the clinical development of anti-cancer IgE immunotherapies
Jitesh Chauhan (United Kingdom) |
| P35 | Single cell multiome (ATAC + gene expression) analysis of human mast cells – pilot study
Yuri Jang (United Kingdom) |
| P36 | Epicutaneous Sensitization to Ara h 2 Enhances Mast Cell Expansion in Cardiac and Systemic Tissues: Insights from a Murine Allergy Model
Helena Berreiros-Hortala (Spain) |
| P37 | CD63 outperforms CD203c in the basophil activation test for predicting severe allergic reactions to cow's milk
Vasco Claro (United Kingdom) |
| P38 | The Clinical Relevance of Mast Cell Activation in Myalgic Encephalomyelitis / Chronic Fatigue Syndrome
Johanna Rohrhofer (Austria) |
| P39 | Role of TSLP and mast cells among asthma patients with airway autoimmunity
Lise Lotte Eriksen (Denmark) |
| P40 | Predictive value of the basophil activation test for breakthrough reactions during desensitisation in chemotherapeutic-induced hypersensitivity reactions
Clara Lebron-Martin (Spain) |

Sat 17 Jan
21:00 - 22:00

Poster Session III - Topic 6 Barriers, allergy and asthma

Monachil+Guejar+Dilar, Level H Poster Session

Chair : Chrysanthi Skevaki (Germany), Cristina Gomez-Casado (Germany), Alexandra Santos (United Kingdom)

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| P41 | Bronchoscopy with Bronchoalveolar Lavage Fluid Analysis as an Alternative Diagnostic Approach for Granulomatous Lymphocytic Interstitial Lung Disease
Klara Radovic (Italy) |
| P42 | A Comparative Spirometric Analysis of Lung Function in Heat-Not-Burn Product Users and Conventional Cigarette Smokers
Dilara Karaguzel (Türkiye) |
| P43 | Transcriptional Profiling of Allergen-Stimulated PBMCs Reveals Cellular Activation Patterns in IBH
Geisler Johanna (Switzerland) |
| P44 | Role of MAPK13 in the pathogenesis of asthma: modulation of epithelial barrier function and mucus production
Cristina Rosales-Ariza (Spain) |
| P45 | Clinical and immunological profile of patients with Atopic Dermatitis-Psoriasis overlapping syndrome
Martyna Miodonska (Poland) |
| P46 | Integrated analysis on genome-wide profile of H3K4me2 histone methylation with inflammatory disease genes expression in mouse skin suffering from peanut allergy
Mengzhen Hao (Spain) |
| P47 | Redefining airway wall immune-epithelial interactions using single-cell spatial transcriptomics
Eimear Rutherford (United Kingdom) |
| P48 | MiRNA gene targets reveal regulatory nodes in an IL-13-induced airway disease model
Jonas Ambjörnsson (Sweden) |
| P49 | Polystyrene nanoparticles modify structural, functional, and immunological properties of the intestinal epithelium
Sandra Bargiela-Cuevas (Spain) |
| P50 | Food colorants, tartrazine and allura red, disrupt the gut epithelial barrier integrity and trigger pro-inflammatory responses
Jennifer Hotie (Switzerland) |
| P52 | Plasma metabolomes differentiate asthma endotypes: findings from COREA
Tae-Bum Kim (Korea, Republic of) |

 Sunday 18 January

EAACI Winter School 2026

Sun 18 Jan

08:00 - 09:00

Keynote 6

Salon Dauro, Level S Keynote

Chair : Chrysanthi Skevaki (Germany), Andrzej Eljaszewicz (Poland)

08:00

Single cell and spatial resolution of immune responses

Erik Wambre (United States of America)

Sun 18 Jan

09:00 - 10:40

Oral Abstracts Presentation V

Salon Dauro, Level S Oral Abstracts Presentation

Chair : Jean-Philippe Girard (France), Rosa Muñoz-Cano (Spain)

09:00

017

The human allergen atlas: high-throughput epitopic identification of allergens

Mark Møiniche (Denmark)

09:25

018

Differences in allergen specific B cell gene expression between OIT and placebo

Stephan Schneider (Switzerland)

09:50

019

Alternatively-activated and immunosuppressive features of the humoral immune response in patients with melanoma

Lucy Booth (United Kingdom)

10:15

020

ReDiscovering: Insights into memory IgD B cell responses as a key player in allergy and tolerance

Juan-Felipe Lopez (Switzerland)

Sun 18 Jan

10:40 - 11:00

Coffee Break

Cocktail & Bar "Alma", Level S Others

Sun 18 Jan

11:00 - 12:00

Interactive Lecture

Salon Dauro, Level S Session

Chair : Alexandra Santos (United Kingdom), Cezmi Akdis (Switzerland)

11:00

Planning for publishing in a high impact medical journal

Jeffrey Drazen (United States of America)

Sun 18 Jan

12:00 - 12:30

Closing Ceremony and Prize Giving

Salon Dauro, Level S Session

12:00

Closing Ceremony and Prize Giving

Andrzej Eljaszewicz (Poland)