



EAACI
EUROPEAN ACADEMY OF ALLERGY
AND CLINICAL IMMUNOLOGY

Winter
School

IMMUNOLOGY WINTER SCHOOL 2026



15 - 18 January



Sierra Nevada, Spain



[EAACI.org](https://www.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 Gualtiero (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), 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
005 | **Microbial metabolism of food allergens by human oral bacteria alters IgE-mediated anaphylaxis**

Lucía Moreno-Serna (Spain)

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

Alessandra Ruiz Sánchez (Spain)

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

Margareta Mayer (United States of America)

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

Rebecca Adams (United Kingdom)

Fri 16 Jan
19:30 - 21:00 | **Dinner**

Restaurant "Veleta", Level C Others

Fri 16 Jan | **Poster Session II - Topic 3 Immunotherapy and biologicals**
21:00 - 22:00

Monachil+Guejar+Dilar, Level H Poster Session

Chair : Andrzej Eljaszewicz (Poland), 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 | **Poster Session II - Topic 4 Microbiome and metabolism**
21:00 - 22:00

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

O13

Effects of corticosteroids and pH-modulating emollients on barrier function, microbial colonization and immune regulation in atopic dermatitis

Berkay Berk (Germany)

18:15

O14

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

O15

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

O16

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)

- 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)

- 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 **The human allergen atlas: high-throughput epitopic identification of allergens**
017 Mark Møiniche (Denmark)

09:25 **Differences in allergen specific B cell gene expression between OIT and placebo**
018 Stephan Schneider (Switzerland)

09:50 **Alternatively-activated and immunosuppressive features of the humoral immune response in patients with melanoma**
019 Lucy Booth (United Kingdom)

10:15 **ReDiscovering: Insights into memory IgD B cell responses as a key player in allergy and tolerance**
020 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), Milena Sokolowska (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)