





IMMUNOLOGY WINTER SCHOOL 2025

 30 January - 2 February
 Schladming, Austria



eaaci.org



Thursday 30 January

Thu 30 Jan
17:00 - 18:00

Registration

Other

Thu 30 Jan
18:00 - 18:45

Welcome Reception

Other

Thu 30 Jan
18:45 - 19:00

Introduction to the Winter School

Dachstein, Haus Rotwild, Ground Floor Session

Introduction to the Winter School

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

Thu 30 Jan
19:00 - 20:00

Keynote 1

Dachstein, Haus Rotwild, Ground Floor Keynote

Chair : Milena Sokolowska (Switzerland), Günnur Deniz (Türkiye)

19:00

Human early life development captured in single cell atlases

Muzlifah Haniffa (United Kingdom)

Thu 30 Jan
20:00 - 21:00

Dinner

Other

Friday 31 January

EAACI Winter School 2025

Fri 31 Jan
08:00 - 09:00

Keynote 2

Dachstein, Haus Rotwild, Ground Floor Keynote

Chair : Thomas Eiwegger (Austria), Sophia Karagiannis (United Kingdom)

08:00

Neuroimmunology in the skin

Nicolas Gaudenzio (France)



Fri 31 Jan
09:00 - 09:20

Coffee Break

Other

Fri 31 Jan
09:20 - 11:00

Oral Abstracts Presentation I

Dachstein, Haus Rotwild, Ground Floor Oral Abstracts

Chair : Yolanda R. Carrasco (Spain), Muzlifah Haniffa (United Kingdom)

09:20
001

Prevalence and Clinical Relevance of IgE Autoantibodies in Atopic Dermatitis: A Prospective Study

Hafsa Belasri (Belgium)

09:45
002

The role of secreted-IgD in natural and induced tolerance to allergens

Juan-Felipe Lopez (Switzerland)

10:10
003

Allergen immunotherapy-induced low affinity IgG antibodies lack IgE-blocking activity

Katarína Repiská (Austria)

10:35
004

Unravelling the web of cell-matrix interactions in asthma using high parameter imaging

William Traves (United Kingdom)

Fri 31 Jan
11:00 - 14:00

Break

Other



Fri 31 Jan
14:00 - 16:00 | **Practical Course - Molecules in allergology: from immunological knowledge to clinical application**

Dachstein, Haus Rotwild, Ground Floor Session

Chair : Eva Untersmayr-Elsenhuber (Austria)

14:00 | **Molecular Allergology in Food Allergy**

Eva Untersmayr-Elsenhuber (Austria)

14:20 | **From Diagnosis to Diet: Real-World Case Reports in Food and Respiratory Allergy for Children and Adults**

Thomas Eiwegger (Austria), Rosa Muñoz-Cano (Spain)

14:50 | **Beyond Skin Tests: Practical Insights into BAT and MAT for Diagnosing Food Allergy - Development and application of the BAT in AllergoOncology**

Alexandra Santos (United Kingdom), Sophia Karagiannis (United Kingdom)

15:20 | **Nanostructures in allergy**

Cristobalina Mayorga (Spain)

15:40 | **Can the Right Nutrition Replace Biologics?**

Carina Venter (United States of America)

Fri 31 Jan
16:00 - 16:30 | **Break**

Other

Fri 31 Jan
16:30 - 17:30 | **Keynote 3**

Dachstein, Haus Rotwild, Ground Floor Keynote

Chair : Andrzej Eljaszewicz (Poland), Eva Untersmayr-Elsenhuber (Austria)

16:30 | **Epithelial cells, mast cells, and type 2 inflammation in early life allergic asthma**

Clare M Lloyd (United Kingdom)

Fri 31 Jan
17:30 - 17:50 | **Coffee Break**

Other



Fri 31 Jan

17:50 - 19:30

Oral Abstracts Presentation II

Dachstein, Haus Rotwild, Ground Floor Oral Abstracts

Chair : Clare M Lloyd (United Kingdom), Eva Untersmayr-Eisenhuber (Austria)

17:50

005

Innate Immune Memory and Metabolic Reprogramming in the Lower Airway Epithelium of Patients with Allergic Asthma

Inés Jardón Parages (Switzerland)

18:15

006

IL-4 receptor signaling regulates lung macrophages during helminth coinfection resulting in enhanced gammaherpesvirus permissiveness

Georgios Petrellis (Belgium)

18:40

007

Understanding the processes underlying airway remodeling development in different inflammatory phenotypes of house dust mite (HDM) extract-induced experimental asthma models

Marlena Tynecka (Poland)

19:05

008

Allergen metabolism by human oral bacteria alters its allergenicity

Elisa Sánchez Martínez (Spain)

Fri 31 Jan

19:30 - 21:00

Dinner

Other



Fri 31 Jan
21:00 - 22:00

Poster Session I - Topic 1 Asthma
Röttelstein I and II, Haus Fasanerie, Ground Floor Poster

Chair : Klaus Bønnelykke (Denmark), Günnur Deniz (Türkiye), Andrzej Eljaszewicz (Poland)

21:00
P01 **Mast Cell Chymase and Human Lung Fibroblast Interaction: Mechanisms and Implications for Asthma**
Xinran Zhao (Sweden)

21:06
P02 **IL-17RB-expressing human mast cells in type 2 inflammation**
Semah Abdu (United Kingdom)

21:12
P03 **Increased apoptosis signalling in the bronchial airways of allergic asthma patients with a late-phase reaction**
Nicole van der Burg (Sweden)

21:18
P04 **Beyond Type-1 and Type-2: Type-3 cytokines Induce Polarization of Airway Epithelial Cells toward a Novel Mucosal E3 Phenotype**
Helen Charles (Germany)

21:24
P05 **Asthma patients with airway autoimmunity have an altered composition of immune cells in the airway wall**
Lise Lotte Eriksen (Denmark)

21:30
P06 **Unraveling the Role of Mucosal-Associated Invariant T Cells (MAITs) in Type 2 Inflammation induced by alarmins**
Juan Carlos López-Rodríguez (Spain)

21:36
P07 **Identification of Inflammatory Subgroups within Healthy Individuals via Targeted Proteomics**
Huseyn Babayev (Switzerland)

21:42
P08 **Inverted air-liquid interface coculture of epithelial cells and mast cells**
Thea Marie Bek (Netherlands)

Fri 31 Jan
21:00 - 22:00**Poster Session I - Topic 2 Adaptive/innate immunity**

Röttelstein I and II, Haus Fasanerie, Ground Floor Poster

Chair : Muzlifah Haniffa (United Kingdom), Cristobalina Mayorga (Spain), Jitesh Chauhan (United Kingdom)

21:00 P10 Allergy discordant twins do not exhibit differences in gene expression in switched and switched B cells

Stephan Schneider (Switzerland)

21:06 P11 Hallmarks of rat thymopoiesis in senescence challenged by the biological adjuvant and seasonal influenza vaccination

Marija Petrušić (Serbia)

21:12 P12 Role of Neuropeptides in MRGPRX2-Driven Mast Cell and Basophil Activation

Ewa Bartko (Denmark)

21:18 P13 Immunogenicity and Safety of Recombinant Zoster Vaccine in Patients with Inflammatory Bowel Disease undergoing different immunosuppressive therapies

Marianna Franco (Italy)

21:24 P14 Intestinal compartmentalization of antigen-specific regulatory T Cells following oral allergen exposure in mice

David Menchen-Martínez (Spain)

21:30 P15 Localised infiltration of ivacaftor-specific T-cells in liver tissue in a case of CFTR modulator-induced liver injury

Elsie Clarke (United Kingdom)

21:36 P16 Prevalence and markers of the autoimmune clinical phenotype in a single center cohort of Common Variable Immunodeficiency (CVID) patients

Bianca Sciacca (Italy)

21:42 P17 Differential expression of inhibitory Siglecs on various peripheral blood mononuclear cell types in food allergic patients

Juliët Schaapherder (Netherlands)

21:48 P18 The modulation of ICAM in Th2 and Treg cell subsets of Severe eosinophilic asthmatic patients is mediated by IL-33 and IL-25

laura bergantini (Italy)



Fri 31 Jan
21:00 - 22:00 | **Poster Session I - Topic 3 Immunotherapy, biologicals, and other treatment approaches**

Röttelstein I and II, Haus Fasanerie, Ground Floor Poster

Chair : Cecilia Berin (United States of America), Thomas Eiwegger (Austria), Alessandra Vultaggio (Italy)

21:00
P19 **Comparison of immune-metabolic activation of immune cells by the β -glucan containing structures zymosan and zymosan depleted**
Hannah Schiller (Germany)

21:06
P20 **Proteomic analysis identifies patients with chronic rhinosinusitis with nasal polyps who are responders and non-responders to benralizumab (NAPPREB study)**
Emanuele Nappi (Italy)

21:12
P21 **Microneedle-based delivery of ovalbumin-loaded mesoporous silica nanoparticles for allergen-specific immunotherapy**
Paula Cuevas-Delgado (Spain)

21:18
P22 **Multi-omic Analysis of Induced Sputum in Patients with Chronic Obstructive Pulmonary Disease - A Pilot Study**
Kaja Pulik (Poland)

21:24
P23 **Immunopeptidome and functional analysis to define HLA-allele restricted drug-specific T-cell responses**
Eleanor Saville (United Kingdom)

21:30
P24 **Cytokine alarmins as potential biomarkers in patients with systemic mastocytosis**
Etnik Sheremeti (Switzerland)

21:36
P25 **The synthetic cannabinoid WIN55212-2 abolishes endothelial inflammatory responses and vascular remodeling upon aortic injury**
Natalia Cuervo López (Spain)

21:42
P26 **Effectiveness of Innovative Acellular Dermal Matrices from Abdominoplasty Skin in the Treatment of Chronic Diabetic Wounds in the Experimental Mice Models**
Krystian Czolpinski (Poland)



 Saturday 1 February

EAACI Winter School 2025

Sat 1 Feb
08:00 - 09:00 | **Keynote 4**
Dachstein, Haus Rotwild, Ground Floor Keynote

Chair : Alexandra Santos (United Kingdom), Carina Venter (United States of America)

08:00 | **Allergen specific responses in food allergy**
Cecilia Berin (United States of America)

Sat 1 Feb
09:00 - 09:20 | **Coffee Break**
Other

Sat 1 Feb
09:20 - 11:00 | **Oral Abstracts Presentation III**
Dachstein, Haus Rotwild, Ground Floor Oral Abstracts

Chair : Cecilia Berin (United States of America), Thomas Eiwegger (Austria)

09:20
009 | **Dysregulations in L-phenylalanine metabolism facilitate pro-inflammatory Th2 phenotype in severe allergy**
Abhijeet Kulkarni (Switzerland)

09:45
010 | **Cannabinoids promote tolerogenic DCs via epigenetic reprogramming and extracellular vesicle secretion able to polarize Tregs**
Angel Maldonado (Spain)

10:10
011 | **The major mold allergen Alt a 1 is non-allergenic in iron-rich conditions**
Aila Fakhimahmadi (Austria)

10:35
012 | **Dietary fructo-oligosaccharides reduce activated Th2-Th1 cells ratio and suppress type 2 inflammation in a mouse model for house-dust-mite allergy**
Roos Verstegen (Netherlands)

Sat 1 Feb
11:00 - 16:30 | **Break**
Other



Sat 1 Feb
16:30 - 17:30 | **Keynote 5**
Dachstein, Haus Rotwild, Ground Floor Keynote

Chair : Cristina Gomez-Casado (Germany), Cristobalina Mayorga (Spain)

16:30 **Gene-environment interactions in asthma**
Klaus Bønnelykke (Denmark)

Sat 1 Feb
17:30 - 17:50 | **Coffee Break**
Other

Sat 1 Feb
17:50 - 19:05 | **Oral Abstracts Presentation IV**
Dachstein, Haus Rotwild, Ground Floor Oral Abstracts

Chair : Klaus Bønnelykke (Denmark), Cristobalina Mayorga (Spain)

17:50 **Comparative Effects of Heat-not-Burn Tobacco Products and Conventional Cigarette Smoke on Lung Cells and Immune Responses**
013
Dilara Karaguzel (Poland)

18:15 **Nasal Expression of Epithelial Barrier Dysfunction Related Genes in Childhood Asthma and Allergy**
014
Dominika Ambrozej (Poland)

18:40 **A novel role of MAIT cells in DILI pathogenesis**
016
Georgia Wells (United Kingdom)

Sat 1 Feb
19:30 - 21:00 | **Dinner**
Other



Sat 1 Feb
21:00 - 22:00

Poster Session II - Topic 4 Microbiome and metabolism

Röttelstein I and II, Haus Fasanerie, Ground Floor Poster

Chair : Andrzej Eljaszewicz (Poland), Milena Sokolowska (Switzerland), Sophia Karagiannis (United Kingdom)

21:00 **Metabolic regulation of epithelial RIG-I signaling in viral exacerbations of asthma**
P27 Urszula Radzikowska (Switzerland)

21:06 **IPA enhances mucosal and skin epithelial barrier and shows anti-inflammatory properties**
P28 Yagiz Pat (Switzerland)

21:12 **Probiotic extracellular vesicles as potential immune mediators**
P29 Agnieszka Razim (Poland)

21:18 **Investigating the Metabolic Impact of Perfluoroalkyl Substances on CD4+T cell Differentiation and Function based on Paralle 1,2 13C-Glucose and 13C-glutamine Fluxomics Platform and Lipidomics**
P30 ZIYU YANG (Finland)

21:24 **Microbiota-derived metabolite improves lung inflammation by modulating metabolism of alveolar macrophages**
P31 Magdalena Wolska (Poland)

21:30 **Identification of volatile organic compounds in exhaled breath able to discriminate allergic and non-allergic individuals among chronic rhinitis patients**
P32 Paula Cuevas-Delgado (Spain)

21:36 **Dietary management with a beta-lactoglobulin-based food for specific medical purposes (FSMP) against atopic dermatitis in a mouse model**
P33 Hanna Mayerhofer (Austria)

21:42 **Higher Anxiety Levels in Food Allergic Patients are Associated with Altered Hippocampal Neurogenesis**
P34 Vikki Houghton (United Kingdom)

21:48 **Gastrointestinal barrier disruption in Post-COVID Syndrome Fatigue patients**
P35 Johanna Rohrhofer (Austria)



Sat 1 Feb
21:00 - 22:00

Poster Session II - Topic 5 Allergen molecules

Röttelstein I and II, Haus Fasanerie, Ground Floor Poster

Chair : Yolanda R. Carrasco (Spain), Carina Venter (United States of America), Cristina Gomez-Casado (Germany)

21:00 **Mouse model of epicutaneous sensitization against Ara h 2: Role of its ligand in peanut allergy**
P36 Helena Berreiros-Hortala (Spain)

21:06 **Lipid Transfer Protein (LTP) Syndrome in a North African Model: Profile with High Prevalence of nOle e 7 in Mediterranean Area**
P37 SIRINE BEN DHIAB (Tunisia)

21:12 **Identification of a dominant IgE epitope on Mal d 1 relevant for apple allergy**
P38 Hilal Demir (Austria)

21:18 **Dietary feasibility and adherence to an immune supportive diet in children with a peanut or nut allergy; results from a subpopulation of the randomized controlled clinical DIAMETER study**
P39 Chantal den Elzen (Netherlands)

21:24 **Synergistic effect of amoxicillin and lipopolysaccharide in basophil activation to improve the diagnosis of IgE-mediated hypersensitivity severe reactions to amoxicillin**
P40 Irene García-Esteban (Spain)

21:30 **Endotypes involved in chemotherapeutics-induced hypersensitivity reactions: determination of mediator release in acute phase and relation with reaction severity**
P41 Clara Lebron-Martin (Spain)

21:36 **AllergoOncology: Non-allergic urticarial skin reactions associated with MOv18 IgE, a first-in-class IgE antibody recognizing Folate Receptor alpha (FR α)**
P42 Jitesh Chauhan (United Kingdom)



Sat 1 Feb
21:00 - 22:00 | **Poster Session II - Topic 6 Barriers and allergy**
Röttelstein I and II, Haus Fasanerie, Ground Floor Poster

Chair : Clare M Lloyd (United Kingdom), Francesco Cinetto (Italy), Alexandra Santos (United Kingdom)

21:00
P43 | **Deciphering the effects of type 2-cytokines, IL-4- and IL-13-, and of IL-22-induced epithelial barrier dysfunction and skin Inflammation in ex-vivo human skins**
Paolo D'avino (Switzerland)

21:06
P44 | **Food emulsifier polysorbate 80 causes gut barrier disruption and inflammation**
Can Zeyneloglu (Switzerland)

21:12
P45 | **Immune Endotypes in Pediatric Atopic Dermatitis: Impact of Allergen Sensitization**
Karolina Dumycz (Poland)

21:18
P46 | **Micro- and nano-plastics with diverse sizes and chemical structures impair epithelial barrier integrity and cause cell death**
Sena Ardicli (Switzerland)

21:24
P47 | **Advancing Precision Dermatology through Tape Strip Proteomics**
Phillipp Gessner (Switzerland)

21:30
P48 | **Using immunofluorescence and spatial transcriptomics to compare Langerhans cell : T cell interactions in human Atopic Dermatitis skin**
Rebekah West (United Kingdom)

21:36
P49 | **Investigation of the mechanisms of skin barrier dysfunction caused by household dishwasher detergents**
Manru Li (Switzerland)

 **Sunday 2 February**

EAACI Winter School 2025

Sun 2 Feb
08:00 - 09:00 | **Keynote 6**
Dachstein, Haus Rotwild, Ground Floor Keynote

Chair : Rosa Muñoz-Cano (Spain), Alessandra Vultaggio (Italy)

08:00 | **Mechanisms of humoral adaptive immunity**
Yolanda R. Carrasco (Spain)

Sun 2 Feb
09:00 - 09:20 | **Coffee Break**
Other



Sun 2 Feb

09:20 - 11:00

Oral Abstracts Presentation V

Dachstein, Haus Rotwild, Ground Floor Oral Abstracts

Chair : Rosa Muñoz-Cano (Spain), Cristina Gomez-Casado (Germany)

09:20

017

The Role of Allergen Proteases and Protease-Activated Receptor Signaling in Lung Remodeling during Asthmatic Inflammation

Alicja Walewska (Poland)

09:45

018

Impact of Surfactants in Oral Care Products on Epithelial Cell Activation and Barrier Dysfunction in Eosinophilic Esophagitis

Özge Ardıçlı (Switzerland)

10:10

019

Food Emulsifiers Induce Pro-Inflammatory Response and Disrupt the Gut Epithelial Barrier in vitro and in vivo

Duygu Yazıcı (Switzerland)

10:35

020

Treatment of insulin allergy by intranasal Fc-fused preproinsulin

Widad NEFIDA (France)

Sun 2 Feb

11:00 - 11:30

Closing Ceremony and Prize Giving

Dachstein, Haus Rotwild, Ground Floor Other

Chair : Andrzej Eljaszewicz (Poland)