



IMMUNOLOGY WINTER SCHOOL 2024

📅 08-11 January
📍 Zakopane, Poland



eaaci.org



 **Monday 8 January**

EAACI Winter School 2024

Mon 8 Jan
17:30 - 18:30 | **Welcome Reception**
Other

Mon 8 Jan
18:30 - 19:00 | **Introduction to the Winter School**
Other

Introduction to the Winter School

Milena Sokolowska (Switzerland)

Introduction to the Winter School (remotely)

Stefano Del Giacco (Italy)

Introduction to the Winter School (remotely)

Tomás Chivato (Spain)

Introduction to the Winter School

Maciej Kupczyk (Poland)

Mon 8 Jan
19:00 - 20:00 | **Keynote 1: The role of tissue resident B cells in the regulation of antibody responses**

Keynote

Chair : Milena Sokolowska (Switzerland), Cristobalina Mayorga (Spain)

19:00 | **The role of tissue resident B cells in the regulation of antibody responses**
Louisa James (United Kingdom)

Mon 8 Jan
20:00 - 22:00 | **Dinner**
Other



Tuesday 9 January

EAACI Winter School 2024

Tue 9 Jan
08:00 - 09:00 | **Keynote 2 – Barrier protection, damage and repair in respiratory viral infections**
Keynote

Chair : Matthew Burgess (United Kingdom), Gerdien Tramper (Netherlands)

08:00 | **Barrier protection, damage and repair in respiratory viral infections**
Andreas Wack (United Kingdom)

Tue 9 Jan
09:00 - 09:20 | **Coffee Break**
Other

Tue 9 Jan
09:20 - 11:00 | **Oral Abstracts Presentation I**
Oral Abstracts

Chair : Andreas Wack (United Kingdom), Matthew Burgess (United Kingdom)

09:20
001 | **Direct and indirect effects of tofacitinib and dupilumab on keratinocytes in skin models of atopic dermatitis**
Shauni De Vriese (Belgium)

09:45
002 | **The comparison of the effects of mesenchymal stem cells (MSCs) and derived extracellular vesicles administration in the regulation of neutrophilic airway inflammation in an experimental asthma model**
Marlena Tynecka (Poland)

10:10
003 | **The in vitro and in vivo anti-inflammatory role of the synthetic cannabinoid WIN55212-2 in aortic endothelial cells**
Natalia Cuervo López (Spain)

10:35
004 | **Dupilumab-induced conjunctivitis in atopic dermatitis patients is not associated to a decreased expression of conjunctival tight junctions but to an increase in local inflammation**
Carlos Jose Aranda (Spain)

Tue 9 Jan
11:00 - 13:15 | **Break**
Other



Tue 9 Jan

13:15 - 13:30

Industry session 1

Industry Session

Tue 9 Jan

13:30 - 16:00

Practical Course

Session

Chair : Wojciech Feleszko (Poland)

13:30

PC Session 1 : Post-biotics-a step too far beyond pre- and probiotics?

Wojciech Feleszko (Poland)

13:50

PC Session 2 : Vaccinations in immunodeficiencies-from basic concepts to the patient's bed

Francesco Cinetto (Italy)

14:10

PC Session 3 : Novel toolbox in biologics in T2 dependent diseases

Thomas Eiwegger (Austria)

14:30

Coffee Break

15:00

PC Session 4 : Dangerous liaisons Between Bacteria, Antimicrobial Therapies, and Allergic Diseases

Gerdien Tramper (Netherlands)

15:20

PC Session 5 : Nutrition and immune system: a complicated tango

Carina Venter (United States of America), David Fleischer (United States of America)

15:40

PC Session 6 : Separating Fact from Fiction in AllergoOncology

Erika Jensen-Jarolim (Austria)

Tue 9 Jan

16:00 - 16:30

Coffee Break

Other



Tue 9 Jan

16:30 - 17:30

Keynote 3 – Tissue resident T cells; generation and maintenance

Keynote

Chair : Thomas Eiwegger (Austria), Rubén Fernández-santamaría (Spain)

16:30

Tissue resident T cells; generation and maintenance

Marc Veldhoen (Portugal)

Tue 9 Jan

17:30 - 17:50

Coffee Break

Other

Tue 9 Jan

17:50 - 19:30

Oral Abstracts Presentation II

Oral Abstracts

Chair : Marc Veldhoen (Portugal), Gómez-Casado Cristina (Spain)

17:50

005

High suppression of gamma delta T cells in glioblastoma multiforme patients' blood

Natalia Lehman (Poland)

18:15

006

The role of IgE and T regulatory cells in the pathophysiology of Crohn's disease

Andrés de la Rocha-Muñoz (Spain)

18:40

007

Frequency of changes in immunoglobulins, B-cells, and B-regulatory cells in patients with immediate hypersensitivity reactions to amoxicillin over time after the acute reaction

Rubén Fernández-santamaría (Spain)

19:05

008

Metabolomics of circulating human memory CD4+ T effector and T regulatory cells reveals that Phenylalanine is a metabolic checkpoint of pathogenic Th2 cell development

Abhijeet J Kulkarni (Switzerland)

Tue 9 Jan

19:30 - 21:00

Dinner

Other



Tue 9 Jan
21:00 - 22:00

Poster Session I - Topic 1 Asthma | P01 – P10

Poster

Chair : Gerdien Tramper (Netherlands), Matthew Burgess (United Kingdom), Andreas Wack (United Kingdom)

P02 Rhinovirus HRV16 may limit the replication of coronavirus HCoV-229E during infection of the lung vascular endothelium

Mateusz Gawrysiak (Poland)

P03 The potential protective effect of eosinophils in the respiratory viral infection of human lung vascular endothelium

Jonatan Rataj (Poland)

P04 Association between vitamin D receptor gene polymorphisms TaqI, FokI and vitamin D levels in patients with atopy

Daina Bastyte (Lithuania)

P05 Different effects of acute and chronic inflammation on lung remodeling in experimental asthma models

Alicja Walewska (Poland)

P06 Human rhinovirus HRV16 and IL-33 may up-regulate inhibitory checkpoint molecule genes in the human lung microvascular endothelium

Adrian Bekier (Poland)

P07 Immunocytological pulmonary response to chronic inhalation of hypochloric acid (HOCl) fog in rats

Anna Gil (Poland)

P08 Analysis of miRNAs expression in patients with NSAIDs exacerbated respiratory disease

Adrian Gajewski (Poland)

P09 Maternal caffeine intake during pregnancy and the risk of childhood asthma by 10 years of age – Evidence from The Generation XXI birth cohort study

Francisca Castro Mendes (Portugal)

P10 Disease remission in severe asthma patients on mepolizumab treatment: Polish real-life data

Piotr Damiński (Poland)



Tue 9 Jan
21:00 - 22:00

Poster Session I - Topic 2 Adaptive/innate immunity | P11 - P19

Poster

Chair : Luke AJ O'Neill (Ireland), Marc Veldhoen (Portugal), Milena Sokolowska (Switzerland)

- P11** **Inflammation May Play a Role in the Prognosis of Ataxia-Telangiectasia: Evaluation of Urine and Serum Pterins**
Hatice Betul Gemici Karaaslan (Türkiye)
-
- P12** **Inflammatory profiles in patients with asthma and concomitant sarcoidosis- data from a tertiary pulmonary center**
Piotr Lacwik (Poland)
-
- P13** **Variable Clinical Presentation of DCLRE1C Deficiency from Childhood to Adulthood**
Esra Hazar (Türkiye)
-
- P14** **Immunological Patient Stratification in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome**
Johanna Rohrhofer (Austria)
-
- P16** **Modulation of Proinflammatory Cytokines by Essential Oils: Implications for Inflammatory Conditions**
Sevan Iritsyan (Armenia)
-
- P17** **Notch4 and lung tolerance: Treg cells as a new suspect for a new threat**
Shadi Hambo (Germany)
-
- P18** **Should we start discussing inflammation types in cancer patients? Peripheral blood eosinophilia as a prognostic factor in pancreatic cancer - preliminary study**
Alicja Majos (Poland)
-
- P19** **Two divergent models of response to coronaviral infections- the key to the resilience against viral respiratory infections?**
Robert Szewczyk (Poland)
-



Tue 9 Jan
21:00 - 22:00

Poster Session I - Topic 3 Immunotherapy and biologicals | P20 - P29
Poster

Chair : Thomas Eiwegger (Austria), Cristobalina Mayorga (Spain), Erika Jensen-Jarolim (Austria)

P20 Allergen exposure chamber and nasal allergen challenge in assessing the efficacy of allergen immunotherapy in patients with rhinoconjunctivitis triggered by house dust mite
Magdalena Zemelka-Wiącek (Poland)

P21 Single-cell RNA Sequencing Reveals Transcriptional Change in Circulating Immune Cells of Patients with Severe Asthma Induced by Biologicals
Tae-Bum Kim (Korea, Republic of)

P22 AllergoOncology: Application of the basophil activation test (BAT) in pre-clinical testing and a clinical trial of anti-cancer IgE immunotherapy
Jitesh Chauhan (United Kingdom)

P23 Do AIT-induced allergen-specific IgE-blocking antibodies display high affinity?
Katarína Repiská (Austria)

P24 Dynamic changes in transcriptomic signatures after biological treatment in asthmatic patients
Adrian Janucik (Poland)

P25 Exploring new strategies for generating tolerogenic dendritic cells through postbiotics
Sudhichan Mehta (Estonia)

P26 Facilitated antigen-presentation assays indicate differences in IgE-cross-blocking of antibodies following SLIT with recombinant Bet v 1 or Mal d 1
Hilal Demir (Austria)

P27 Allergen-specific IgE occurrence among patients treated with anti-IL5 and anti-IL5r for severe eosinophilic asthma
Anna Mościcka (Poland)

P28 The efficacy of anti-IL5/IL5Rs treatment in patients with transient elevation of blood eosinophil counts during pollination season compared to patients with persistent eosinophilia
Dominika Ochab-Krupnik (Poland)

P29 Rituximab-induced persistent hypogammaglobulinemia in a patient with Velocardiofacial syndrome
Danka Krtinic (Serbia)



Wednesday 10 January

EAACI Winter School 2024

Wed 10 Jan

08:00 - 09:00

Keynote 4 – Beneficial modulation of the respiratory microbiome and immunity: positioning the potential of probiotics

Keynote

Chair : Cristina Gomez-Casado (Germany), Marina Perez-gordo (Spain)

08:00

Beneficial modulation of the respiratory microbiome and immunity: positioning the potential of probiotics

Sarah Lebeer (Belgium)

Wed 10 Jan

09:00 - 09:20

Coffee Break

Other

Wed 10 Jan

09:20 - 11:00

Oral Abstracts Presentation III

Oral Abstracts

Chair : Sarah Lebeer (Belgium), Carina Venter (United States of America)

09:20

009

The influence of microbial metabolites on lung immunity

Edyta Bulanda (Poland)

09:45

010

Bifidobacterium adolescentis CCDM 368 as a source of extracellular vesicles with anti-allergic potential

Dominika Kozakiewicz (Poland)

10:10

011

Intranasal application of peptidoglycan from Bifidobacterium longum ssp. longum CCM 7952 prevents allergic inflammation in a mouse model

Tereza Svabova (Czech Republic)

10:35

012

The effect of butyrate on the infection and immune response against RV-A16 in a co-culture model of ALI-PNEC with monocyte-derived macrophages

Natalia Laura Wąsowska (Netherlands)

Wed 10 Jan

11:00 - 16:30

Break

Other



Wed 10 Jan
16:30 - 17:30

Keynote 5: Single-cell to tissue-scale memory of infection and inflammation

Keynote

Chair : Inge Kortekaas Krohn (Belgium), Francesco Cinetto (Italy)

16:30 **Single-cell to tissue-scale memory of infection and inflammation**
José Ordovas-Montanes (United States of America)

Wed 10 Jan
17:30 - 17:50

Coffee Break

Other

Wed 10 Jan
17:50 - 19:55

Oral Abstracts Presentation IV

Oral Abstracts

Chair : José Ordovas-Montanes (United States of America), Inge Kortekaas Krohn (Belgium)

17:50 **Metabolic regulation of epithelial RIG-I signaling in viral exacerbations of asthma**
013 Urszula Radzikowska (Switzerland)

18:15 **A macrophage-secreted metabolite with potent antibacterial functions**
014 Piyal Saha (Austria)

18:40 **Immunometabolic reprogramming of bronchial epithelium in asthma**
015 Inés Jardón Parages (Switzerland)

19:05 **Increased polyamine catabolism aggravates anaphylaxis by inducing mast cell degranulation**
016 Manman Liu (China)

19:30 **New nomenclature of allergic reactions**
017 Magdalena Zemelka-Wiącek (Poland)

Wed 10 Jan
20:00 - 21:00

Dinner

Other



Wed 10 Jan
21:00 - 22:00

Poster Session II - Topic 4 Microbiome and metabolism | P30 - P37

Poster

Chair : Cristina Gomez-Casado (Germany), Marina Perez-gordo (Spain), Sarah Lebeer (Belgium)

P30 Single cell and bulk energy metabolism profiling of human Th2 cells in vitro and ex vivo

Nino Stocker (Switzerland)

P31 Do Schistosoma mansoni cysteine proteases instruct lung epithelial cells to release immunomodulatory extracellular vesicles?

Michael Thaler (Austria)

P32 Microbial-Derived Tryptophan Metabolites Selectively Influence Cytokine Secretion by Polarized Human Lymphocytes

Lu Yao (Ireland)

P33 Dietary intervention with fructo-oligosaccharides in a mouse-model for house dust mite allergy enhances type 1 development, while lowering HDM specific type 2 responses in the lungs

Roos Verstegen (Netherlands)

P34 Lipid peroxidation associated with nonsteroidal anti-inflammatory drug hypersensitivity

Isabel María Jiménez-Sánchez (Spain)

P35 Metabolite X modulates metabolism of the lung during inflammation

Magdalena Wolska (Poland)

P37 Butein reduces asthma-related fibroblast-to-myofibroblast transition in vitro

Jan Raczek (Poland)



Wed 10 Jan
21:00 - 22:00

Poster Session II - Topic 5 Allergen molecules | P38 - P47

Poster

Chair : Cristobalina Mayorga (Spain), Rubén Fernández-santamaría (Spain), Louisa James (United Kingdom)

P38 **The allergy-protective bovine protein beta-lactoglobulin: not only a milk protein**

Simona Winkler (Austria)

P39 **Diminished allergenicity of the fungal major allergen Alt a 1 under iron-sufficiency and by direct binding to iron-quercetin complexes**

Aila Fakhimahmadi (Austria)

P40 **Neutrophils involvement in patients with hypersensitivity to titanium containing prosthesis**

Natalia Aliakhnovich (Belarus)

P41 **Study on the Activation Mechanisms of Basophils Using Different Nanoarchitectures to Enhance Sensitivity in the Assessment of Allergic Reactions to Clavulanic Acid**

Pablo Torres Fernández (Spain)

P42 **Bioinformatics analysis and geographical distribution of Euroglyphus Maynei: a retrospective study on the frequency of sensitization in respiratory allergies**

Stefano Palazzo (Italy)

P43 **Transcriptomic and bioinformatics analysis to investigate the cellular responses to birch pollen exposure in birch pollen allergic and non-allergic individuals**

Srinidhi Sudharson (Austria)

P44 **Allergy to Antibiotics in Common Variable Immunodeficiency (CVID): is this a relevant issue?**

Patrick Bez (Italy)

P45 **The consequences of the climate change on Olea europaea allergy**

Alessandro Cinquantasei (Italy)

P46 **Clinical evaluation of two molecular multiplex IgE test assays in diagnosing airborne allergies**

Larissa Koidl (Austria)

P47 **The IgEome in Peanut Allergy: Determination of Autoreactive IgE**

Carolin Steinert (Germany)



Wed 10 Jan
 21:00 - 22:00

Poster Session II - Topic 6 Barriers and allergy | P48 - P54
 Poster

Chair : Francesco Cinetto (Italy), Carina Venter (United States of America), José Ordoñas-Montanes (United States of America)

P48 **Cold urticaria associated with a novel Phospholipase-C-Gamma-2 (PLCγ2) mutation**
 Monique Butze (Germany)

P49 **Microneedle-mediated epicutaneous delivery system based on mesoporous silica nanoparticles for allergen-specific immunotherapy**
 Ana M. Pérez-Moreno (Spain)

P50 **Impact of Skin Stretching on Cutaneous Allergic Responses**
 Darawan Tabtim-on (France)

P52 **Activity of oral fluid enzymes in children with bronchial asthma**
 Alena Minina (Belarus)

P53 **Endotypes of childhood atopic dermatitis based on proteomic profiling of skin tape-stripping and allergic sensitization**
 Karolina Dumycz (Poland)

P54 **Novel heterozygous TNFAIP3 mutation resulting in autoinflammation, autoimmunity and infection susceptibility**
 Vyanka Redenbaugh (United Kingdom)

Thursday 11 January

EAACI Winter School 2024

Thu 11 Jan
 08:00 - 09:00

Keynote 6 - A break in mitochondrial endosymbiosis as a basis for inflammatory diseases

Keynote

Chair : Milena Sokolowska (Switzerland), Inge Kortekaas Krohn (Belgium)

08:00 **A break in mitochondrial endosymbiosis as a basis for inflammatory diseases**
 Luke AJ O'Neill (Ireland)

Thu 11 Jan
 09:00 - 09:20

Coffee Break
 Other



Thu 11 Jan
09:20 - 11:00

Oral Abstracts Presentation V

Oral Abstracts

Chair : Inge Kortekaas Krohn (Belgium), Rubén Fernández-santamaría (Spain)

09:20
018

Characterising the blood and airways ILC landscape in patients with severe asthma undergoing anti-IL5/5Ra therapy

Kyle Mincham (United Kingdom)

09:45
019

Epigenetic Mechanisms in Allergic Diseases During Pregnancy

Elisabeth Simonin (United States of America)

10:10
020

Cannabinoids induce tolerogenic DCs by promoting epigenetic reprogramming and secreting extracellular vesicles that polarize Tregs

Angel Maldonado (Spain)

10:35
021

MacDeath: A cell death screen identifies novel macrophage-depleting agents for the therapy of macrophage activation syndrome and cancer

Paul Ettel (Austria)

Thu 11 Jan
11:00 - 11:30

Closing Ceremony and Prize Giving

Other

11:00

Closing Ceremony and Prize Giving

Inge Kortekaas Krohn (Belgium)