

Thu 26 Jan
12:00 - 14:00 | Registration
Other

Thu 26 Jan
14:00 - 17:00 | Environment and Immunology StandUp Talks
Special Session

Moderator : Milena Sokolowska (Switzerland), Inge Kortekaas (Belgium), Carla Jones (United Kingdom)

14:00 **Allergy - A Microbial Disease?**
Liam O'Mahony (Ireland)

14:40 **Why to pursue a scientific career?: New challenges in environment and immunology**
Oscar Palomares (Spain)

15:20 **Break**

15:40 **Climate change & Allergy**
Mary Prunicki (United States of America)

16:20 **How to support awareness of healthier environment from individual choices to European parliament**
Sirpa Pietikäinen (Finland)

Thu 26 Jan
17:00 - 18:00 | Welcome reception
Other

Thu 26 Jan
18:00 - 19:00

Roadmap to the 20th Anniversary of the EAACI Immunology Winterschool

Other

Chair : Tomás Chivato (Spain), Eva Untersmayr (Austria)

18:00 **Opening Winterschool 2023**
Milena Sokolowska (Switzerland)

18:15 **From 1st to 20th Winterschool-success story**
Cezmi Akdis (Switzerland)

18:25 **Leadership in EAACI at the times of health and political crisis**
Marek Jutel (Poland)

18:45 **Educational opportunities in EAACI**
Tomás Chivato (Spain)

Thu 26 Jan
19:00 - 20:00

Keynote 1: The principles and therapeutic use of mRNA technology

Keynote

Chair : Milena Sokolowska (Switzerland), Gerdien Tramper (Netherlands)

19:00 **The principles and therapeutic use of mRNA technology**
Gábor Tamás Szabó (Germany)

Thu 26 Jan
20:00 - 21:00

Dinner

Other

Thu 26 Jan
21:00 - 22:00

Poster Session I - Topic 1 Asthma and airway diseases| P01 – P09
Poster

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

- P01 **Deletion of p300 exacerbates allergic inflammation in a murine model of asthma**
Eun Gyu Kim (Korea, Republic of)
-
- P02 **Development of a novel intra-lobular ex-vivo guinea pig model for more predictable airway research**
Mu Nie (Sweden)
-
- P04 **Mepolizumab therapy decreases epithelial-derived cytokine concentrations in exhaled breath condensates from patients with severe eosinophilic asthma**
Aleksandra Likonska (Poland)
-
- P05 **The characterization of airway remodeling changes in regards to MMPs and TIMPs dysregulation and collagen deposition in the experimental asthma models**
Adrian Janucik (Poland)
-
- P06 **Catalytic activity of IgA and IgM in patients with chronic obstructive pulmonary disease and bronchial asthma**
Sergey Generalov (Belarus)
-
- P07 **An upregulated expression of the Notch1/4 - JAG-1/DLL-1 pathway in allergic rhinitis**
Maryam Jafari (Sweden)
-
- P08 **Regulation of ACE2 isoforms by viral infection and IL-13 in bronchial epithelial cells**
Nino Stocker (Switzerland)
-
- P09 **Metabolic biomarker search for asthma treatment monitoring with biologics**
Nuria Contreras (Spain)
-

Thu 26 Jan
21:00 - 22:00

Poster Session I - Topic 2 Adaptive/innate immunity | P10 – P18
Poster

Chair : Inge Kortekaas (Belgium), Eva Untersmayr (Austria)

- P10 **Investigation of allergen specific B-cells in allergy concordant and discordant twins**
Stephan Schneider (Switzerland)
-
- P11 **Allergen-specific IgG in breastmilk and atopy development**
Akash Kothari (Canada)
-
- P12 **Highly multiplexed spatial mapping of inflammatory adipose-tissue microenvironment in panniculitis**
Reihane Ziadlou (Switzerland)
-
- P13 **Involvement of autologous myeloid dendritic cells in the evaluation of immediate hypersensitivity reactions to betalactams by lymphocyte transformation test**
Ruben Fernandez-Santamaria (Spain)
-
- P14 **The allergy-protective farm effect: the milk protein beta-lactoglobulin induces innate immunity via the lipocalin-interacting membrane receptor (LIMR)**
Hanna Mayerhofer (Austria)
-
- P15 **Acyl homoserine lactones regulate intestinal effector T cell function**
Taras Baranovskyi (Austria)
-
- P16 **Common Variable Immunodeficiency (CVID) and T-Large granular lymphocytes (T-LGL)**
Patrick Bez (Italy)
-
- P17 **The Socioeconomic Cost of Food Hypersensitivity on the island of Ireland**
Eimear O'Rourke (Ireland)
-
- P18 **Inherited Disorders of the Complement System: a Retrospective Study**
Filipa Rodrigues dos Santos (Portugal)
-

Thu 26 Jan
21:00 - 22:00

Poster Session I - Topic 3 Immunotherapy and biologicals | P19 – P27
Poster

Chair : Erika Jensen-Jarolim (Austria), Oscar Palomares (Spain), Marek Jutel (Poland)

- P19 **The Basophil Activation Test As An Allergen-Specific Marker Of Desensitization In A Prospective Open Label Trial Of Low Dose Multi-Nut Oral Immunotherapy**
Carmen Li (Canada)
-
- P20 **Distinct Effects of Different Biologicals in Type 2-high Chronic Rhinosinusitis with Nasal Polyp Patients**
Sharon Van Nevel (Belgium)
-
- P21 **Lung function decline in Granulomatous-Lymphocytic Interstitial Lung Disease: a potential role of Rituximab monotherapy**
Helena Buso (Italy)
-
- P22 **Immune checkpoint inhibition enhances recall responses to antigens**
Sophie Grice (United Kingdom)
-
- P23 **The role of IgG1 and IgG4 as dominant IgE-blocking antibodies shifts during the course of allergen immunotherapy**
Maria R Strobl (Austria)
-
- P24 **Development of caninized anti-PD1 and anti-PD-L1 mAbs with constant canine IgG1 and IgG4 regions for the treatment of cancer in dogs**
Nicoletta Marquardt (Austria)
-
- P25 **Relevance of contraindicated pharmaceutical formulations for children with peanut allergy**
Varsha Dwivedi (Austria)
-
- P26 **Bioactivity of IgG1 antibodies to Bet v 1-homologous food allergens induced by sublingual immunotherapy with rBet v 1 and rMal d 1**
Hilal Demir (Austria)
-
- P27 **Real-life prevalence of phenotype overlap and immunological profiles of patients receiving biological therapy for severe asthma in a tertiary pulmonary centre**
Piotr Lacwik (Poland)

 Friday 27 January

EAACI Winter School 2023

Fri 27 Jan
07:00 - 08:00

Meet the experts breakfast

Fri 27 Jan
08:00 - 09:00

Keynote 2: Lipid-specific T cells and inflammatory skin diseases

Keynote

Chair : Inge Kortekaas (Belgium), Erika Jensen-Jarolim (Austria)

08:00 **Lipid-specific T cells and inflammatory skin diseases**
Graham Ogg (United Kingdom)

Fri 27 Jan
09:00 - 09:20

Coffee break

Other

Fri 27 Jan
09:20 - 11:00

Oral Presentations I

Oral Abstracts

Chair : Graham Ogg (United Kingdom), Cristina Gomez-Casado (Germany)

09:20 **Anti-cancer Effects of an IgE Antibody Specific for the Melanoma-associated Antigen**
001 **Chondroitin Sulfate Proteoglycan 4**
Jitesh Chauhan (United Kingdom)

09:45 **Cannabinoids induce tolerogenic DCs that polarize Tregs by mechanisms depending on**
002 **extracellular vesicles**
Angel Maldonado (Spain)

10:10 **Establishment and analysis of a novel innate immune-cell-dependent mouse model of**
003 **eosinophilic enteritis**
Ryo Matsuoka (Japan)

10:35 **Progenitor cells with mast cell forming potential are elevated in chronic spontaneous urticaria**
004
Katie Ridge (Ireland)

Fri 27 Jan
11:15 - 12:15

Immunology treasure hunt on Environment and Immunology: Workshop session 1

Workshop

Moderator : Milena Sokolowska (Switzerland), Inge Kortekaas (Belgium), Cristina Gomez-Casado (Germany), Cristobalina Mayorga (Spain), Alexandra F. Santos (United Kingdom), Marina Pérez-Gordo (Spain), Matthew Burgess (United Kingdom), Ruben Fernandez-Santamaria (Spain), Gerdien Tramper (Netherlands), Erika Jensen-Jarolim (Austria), Thomas Eiwegger (Austria), Francesco Cinetto (Italy), Liam O'Mahony (Ireland), Oscar Palomares (Spain), Mary Prunicki (United States of America), Tomás Chivato (Spain), Eva Untersmayr (Austria), Graham Ogg (United Kingdom), Thomas Weichhart (Austria), Cezmi Akdis (Switzerland), Franziska Roth-Walter (Austria)

Fri 27 Jan
12:15 - 13:30 | Lunch break + travel to SIAF
Other

Fri 27 Jan
13:30 - 15:00 | Practical course at SIAF: confocal microscopy, biobanking, CytOF and CyTOF imaging, proximity extension assay proteomics, flow cytometry and sorting, mass spectrometry
Session

Moderator : Katja Bearenfaller (Switzerland), Christoph Messner (Switzerland), Willem van de Veen (Switzerland), Yasutaka Mitamura (Switzerland), Ismail Ogulur (Switzerland), Milena Sokolowska (Switzerland), Cezmi Akdis (Switzerland)

Fri 27 Jan
15:00 - 16:00 | Break + travel back to hotel
Other

Fri 27 Jan
16:00 - 17:00 | Keynote 3: Macrophages as metabolic organizers of tissue homeostasis
Keynote

Chair : Eva Untersmayr (Austria), Marina Pérez-Gordo (Spain)

16:00 **Macrophages as metabolic organizers of tissue homeostasis**
Thomas Weichhart (Austria)

Fri 27 Jan
17:00 - 17:20 | Coffee break
Other

Fri 27 Jan
17:20 - 19:00

Oral Presentations II

Oral Abstracts

Chair : Thomas Weichhart (Austria), Franziska Roth-Walter (Austria)

17:20
005

Birch pollen-derived low molecular weight compounds decrease cAMP signaling in the human bronchial epithelial cell line 16HBE14o-

Srinidhi Sudharson (Austria)

17:45
006

Microbial-Derived Tryptophan Metabolites Selectively Inhibit TH2 Cytokine Secretion by Polarized Human Lymphocytes

Lu Yao (Ireland)

18:10
007

A synthetic dendrimeric Pru p 3 nanosystem induces methylation changes in mice suggesting tolerance or desensitisation

José Antonio Cañas (Spain)

18:35
008

In vivo and in vitro therapeutic effects of resveratrol on food allergy

Hang Du (China)

Fri 27 Jan
19:00 - 20:00

Dinner

Other

 Saturday 28 January

EAACI Winter School 2023

Sat 28 Jan
07:00 - 08:00

Meet the experts breakfast

Sat 28 Jan
08:00 - 09:00

Keynote 4: Genetic and immunological causes of severe COVID-19

Keynote

Chair : Francesco Cinetto (Italy), Matthew Burgess (United Kingdom)

08:00

Genetic and immunological causes of severe COVID-19

Paul Bastard (France)

Sat 28 Jan
09:00 - 09:20

Coffee break

Other

Sat 28 Jan
09:20 - 11:00

Oral Presentations III

Oral Abstracts

Chair : Paul Bastard (France), Matthew Burgess (United Kingdom)

09:20
009

The synthetic cannabinoid WIN55212-2 protects airway epithelial barrier from rhinoviral infection and type 2 inflammation

Mario Perez-Diego (Spain)

09:45
010

Common variable immune deficiency and COVID-19: a comparison between two National European cohorts in a multicentric retrospective real-life study

Annalisa Villa (Italy)

10:10
011

Interferon regulatory factor 7 is involved in azithromycin-induced interferon and anti-viral signaling in bronchial epithelial cells from asthma and COPD patients

Sofia Malm Tillgren (Sweden)

10:35
012

SARS-CoV-2 vaccination induces virus specific t-cell responses in peripheral blood but not tissue resident memory t-cell responses in nasal mucosa

Karen McCarthy (Ireland)

Sat 28 Jan
11:00 - 12:00

Immunology treasure hunt on Environment and Immunology: Workshop session 2

Workshop

Moderator : Milena Sokolowska (Switzerland), Inge Kortekaas (Belgium), Cristina Gomez-Casado (Germany), Cristobalina Mayorga (Spain), Alexandra F. Santos (United Kingdom), Marina Pérez-Gordo (Spain), Matthew Burgess (United Kingdom), Ruben Fernandez-Santamaria (Spain), Gerdien Tramper (Netherlands), Erika Jensen-Jarolim (Austria), Thomas Eiwegger (Austria), Francesco Cinetto (Italy), Liam O'Mahony (Ireland), Oscar Palomares (Spain), Mary Prunicki (United States of America), Tomás Chivato (Spain), Eva Untersmayr (Austria), Franziska Roth-Walter (Austria), Gábor Tamás Szabó (Germany), Graham Ogg (United Kingdom), Thomas Weichhart (Austria), Paul Bastard (France), Federica Sallusto (Switzerland), Cezmi Akdis (Switzerland)

Sat 28 Jan
12:00 - 13:00

Lunch break

Other

Sat 28 Jan
13:00 - 16:30

Break

Other

Sat 28 Jan
16:30 - 17:30

Keynote 5: Clonal analysis of immunodominance and cross-reactivity

Keynote

Chair : Thomas Eiwegger (Austria), Cristobalina Mayorga (Spain)

16:30 Clonal analysis of immunodominance and cross-reactivity

Federica Sallusto (Switzerland)

Sat 28 Jan
17:30 - 17:50

Coffee break

Other

Sat 28 Jan
17:50 - 19:30

Oral Presentation IV

Oral Abstracts

Chair : Federica Sallusto (Switzerland), Thomas Eiwegger (Austria)

17:50 Allergen-induced proliferation of peripheral Th9-cells in local allergic rhinitis patients

013 Carlos Jose Aranda (Spain)

18:15 Ligelizumab impairs IgE-binding to plasmacytoid dendritic cells more potently than omalizumab and restores IFN- α production and FOXP3+ Treg generation

014 Andrés de la Rocha-Muñoz (Spain)

18:40 Plant-based Ara h 2 eBioparticles are hypo-allergenic and activate human dendritic cells to promote Th1 cell development

015 Charlotte Castenmiller (Netherlands)

19:05 Memory B cells of atopic individuals preferentially express IL-31RA: a putative role of IL-31 in B cell biology

016 Zsofia Unger (Germany)

Sat 28 Jan
19:30 - 20:30

Dinner

Other

Sat 28 Jan
20:30 - 21:30

Poster Session II - Topic 4 Microbiome, food allergy and metabolism | P28 – P35
Poster

Chair : Cristina Gomez-Casado (Germany), Marina Pérez-Gordo (Spain), Liam O'Mahony (Ireland)

- P28 **Mouse model of atopic dermatitis and food allergy: The role of human skin and intestinal microbiota in gnotobiotic mice**
Tereza Svabova (Czech Republic)
-
- P29 **Multiorgan metabolic characterization of IgE and IgG molecular mechanisms using passive anaphylactic mice models**
Andrea Macías-Camero (Spain)
-
- P30 **Atabecestat and metabolite T-cell activation and characterisation in healthy donors**
Megan Ford (United Kingdom)
-
- P31 **Staphylococcus aureus is capable of inducing a neutrophilic inflammation in a surgical mouse model of CRS, in a more prominent way than Pseudomonas aeruginosa or Streptococcus pneumoniae**
Alba Sánchez Montalvo (Belgium)
-
- P32 **Dietary pectin supplementation modulates immune response and gut microbiota in an experimental peach allergy mouse model**
Hanna Steigerwald (Germany)
-
- P33 **A multiplatform metabolomics analysis of cow's milk-allergic infants, their mothers, and grandmothers**
Tomás Clive Barker-Tejeda (Spain)
-
- P34 **Diverse T cell responses to skin bacteria in atopic dermatitis**
Rebecca Pospich (Germany)
-
- P35 **Relationship between prenatal antibiotic exposure, infant microbiome, and infantile atopic dermatitis**
Kotaro Umezawa (Japan)
-

Sat 28 Jan
20:30 - 21:30

Poster Session II - Topic 5 Allergen molecules | P36 – P43
Poster

Chair : Cristobalina Mayorga (Spain), Ruben Fernandez-Santamaria (Spain)

P36 **Alt a 1's function as a carrier of iron quercetin complexes renders its hypoallergenic in vitro and in vivo**

Aila Fakhimahmadi (Austria)

P38 **Monoclonal Antibodies Against House Dust Mite Allergen and Their Application for the Analysis of Allergen Extracts**

Vytautas Rudokas (Lithuania)

P39 **Biological activity of human IgE monoclonal antibodies targeting Der p 2, Fel d 1, Ara h 2 in mediator release assays**

Glorismer Pena-Castellanos (Austria)

P40 **Evaluating the aetiology of unexplained anaphylaxis in Sri Lanka**

Thushali Ranasinghe (Sri Lanka)

P41 **Structural changes in antigenic determinants of penicillin G affects to specific IgE recognition**

Pablo Torres Fernández (Spain)

P42 **Titanium Dioxide Suppresses Autofluorescence of Recombinant Lysozyme**

Natalia Aliakhnovich (Belarus)

P43 **Discovery of novel exonic variants in amoxicillin and clavulanic allergic patients could help to prevent hypersensitivity reactions**

Jose Antonio Céspedes (Spain)

Sat 28 Jan
20:30 - 21:30

Poster Session II - Topic 6 Barriers and allergy | P44 – P50
Poster

Chair : Francesco Cinetto (Italy), Alexandra F. Santos (United Kingdom)

P44 **Egg allergy modifies the dynamics of hippocampal neurogenesis: A potential mechanism for mental health changes in food allergic children**
Vikki Houghton (United Kingdom)

P45 **Mast cell proteases disturbs alveolar and bronchial epithelial cell response and cell growth regulations**
Frida Berlin (Sweden)

P46 **Electrical impedance spectroscopy is less influenced by daily routine activities than transepidermal water loss in skin barrier function assessment**
Lisa Huygen (Belgium)

P47 **Pathophysiological role of Mast Cell Chymase on the Urokinase Plasminogen Activation System in Asthmatic Epithelial Cells**
Sofia Mogren (Sweden)

P48 **The association of Staphylococcus species and atopic dermatitis in Hong Kong children**
Hogan Wai (China)

P49 **A new portable mobile sampler to monitor pollen and aerobiological particles in the air**
Aksana Ishchanka (Belarus)

P50 **Clinical characteristics of allergy to Cocos nucifera (Coconut) in Sri Lankan children**
Inoka Sepali Aberathna (Sri Lanka)

 Sunday 29 January

EAACI Winter School 2023

Sun 29 Jan
07:00 - 08:00

Meet the experts breakfast

Sun 29 Jan
08:00 - 09:00

Keynote 6: Epithelial barrier & environment
Keynote

Chair : Franziska Roth-Walter (Austria), Alexandra F. Santos (United Kingdom)

08:00 **Epithelial barrier & environment**
Cezmi Akdis (Switzerland)

Sun 29 Jan
09:00 - 09:05

Break
Other

Sun 29 Jan
09:05 - 09:50

Immunology treasure hunt on Environment and Immunology Workshop session 3 -
Groups Rehearsal

Other

Sun 29 Jan
09:50 - 09:55

Break
Other

Sun 29 Jan
09:55 - 11:35

Oral Presentations V
Oral Abstracts

Chair : Cezmi Akdis (Switzerland), Inge Kortekaas (Belgium)

09:55
017

Activated human mast cells impair esophageal epithelial barrier function: role of a possible bidirectional crosstalk

Mirelle Kleuskens (Netherlands)

10:20
018

The role of chitin and chitinases in house dust mite driven allergies

Jozefien Declercq (Belgium)

10:45
019

Humoral and regulatory response of B cells during Ascaris infection

Juan-Felipe Lopez (Switzerland)

11:10
020

Investigation of Epithelial Barrier Damaging, Healing and Protecting Compounds with Gut-on-a-chip System

Duygu Yazici (Switzerland)

Sun 29 Jan
11:35 - 12:35

Immunology treasure hunt on Environment and Immunology Workshop session 4:
Environment and Immunology: Pitches about the treasure hunt

Workshop

Sun 29 Jan
12:35 - 12:45

Closing/wrap up and Awards ceremony
Other

Chair : Inge Kortekaas (Belgium)