IMMUNOLOGY WINTER SCHOOL Digital 2021

Basic Immunology Research in Allergy and Clinical Immunology 22 to 24 January







19th EAACI Immunology Winter School "Basic Immunology Research in Allergy and Clinical Immunology"

22 - 24 January 2021 Digital

Scientific Programme

Friday, 22 January 2021

08:00 - 08:10	Welcome Address Stefano del Giacco, Italy VP Specialty and Education, EAACI President elect
08:10 - 08:20	Introduction to the Winter School Eva Untersmayr-Elsenhuber, Austria Chair Basic and Clinical Immunology section
08:20 - 09:20	Metabolic and Epigenetic Reprogramming in Myeloid Cells Mihai Netea, The Netherlands Chair: Andrzej Eljaszewicz, Poland
09:20 - 09:30	Industry Session
09:20 - 09:40	Coffee Break
09:40 - 11:20	Oral Abstracts Presentations I Chair: Andrzej Eljaszewicz, Poland and Jagadeesh Bayry, France
09:40 - 10:05	O01 - Polybacterial MV140 And Candida Albicans V132 Combination As A Potential Novel Trained Immunity-Based Vaccine For Genitourinary Tract Infections. Ana Carmen Sevilla Ortega, Spain
10:05 - 10:30	O02 - Bronchial Epithelial Cells Directionally Secrete Small Extracellular Vesicles That Might Contribute To Asthma Pathophysiology Lukas Hintz, Germany
10:30 - 10:55	003 - The Inclusion Of TLRs Agonists Improves Basophil Activation Test Sensitivity In Amoxicillin Allergic Patients. Rubén Fernández Santamaría, Spain

10:55 - 11:20	O04 - Butyrate And Propionate Restore Esophageal Epithelial Barrier Function After IL-13-Induced Impairment Mirelle T. A. Kleuskens, The Netherlands
11:20 - 12:00	Break
12:00 - 12:40	Practical Course: Flow cytometry-functional assays Andrzej Eljaszewicz, Poland Chair: Wojciech Feleszko, Poland
12:40 - 12:50	Coffee Break
12:50 - 13:30	Practical Course: Flow cytometry - multicolor panel design Jozef Janda, Czech Republic Chair: Wojciech Feleszko, Poland
13:30 - 13:40	Coffee Break
13:40 - 14:20	Practical Course: Novel primary human cells culture systems and organoids
	Inge Kortekaas Krohn, Belgium / Taha Elajnaf, United Kingdom Chair: Wojciech Feleszko, Poland
14:20 - 14:50	Coffee Break
14:50 - 16:30	Oral Abstracts Presentations II Chairs: Milena Sokolowska, Switzerland and Lydia Lynch, United States
14:50 - 15:15	O05 - A Protozoan Commensal Ignites An ILC2-Dependent Susceptibility To Allergic Asthma Across The Gut-Lung Axis. Kyle Burrows, Canada
15:15 - 15:40	O06 - The Synthetic Cannabinoid WIN55212-2 Induces Tolerogenic Human Dendritic Cells Via Autophagy And Metabolic Reprogramming Mario Pérez-Diego, Spain
15:40 - 16:05	O07 - Prevention Of Food Allergy Induced Anaphylaxis By Systemic Administration Of Sphingosine-1-Phosphate Johanna Rohrhofer, Austria
16:05 - 16:30	008 - Metabolic Alterations In Allergic Enteritis Elisa Violeta Zubeldia-Varela, Spain
16:30 - 17:30	Integration of cellular and systemic immunometabolism: Immune Cells Are What We Eat Lydia Lynch, United States Chair: Milena Sokolowska, Switzerland
17:30 - 19:00	Dinner break
19:00-20:00	Networking event
20:00 - 21:00	Poster Session I
	Topic 1 Asthma P01 – P08 Chairs: Jürgen Schwarze, United Kingdom and Wojciech Feleszko, Poland

P01 - Analysis Of Stable Asthma And Asthma Exacerbations In Moderate-Severe Asthma

Geertje Maria de Boer, The Netherlands

P02 - A NutrimiRomics Analysis: The Association Between Diet Diversity And Asthma-Related MicroRNA In Exhaled Breath Condensate Of School-Aged Children

Francisca De Castro Mendes, Portugal

P03 - May T2-Type Cytokines IL-5 And IL-25 Modulate Rhinovirus-Induced Cytokine Response And Chemokine Profile Of The Human Pulmonary Vascular Endothelium?

Adrian Lukasz Gajewski, Poland

P04 - Some Features Of Mucosal Innate Immunity Of The Upper Airways In Children With Asthma And Allergic Rhinitis Yaroslav Vilenskyi, Ukraine

P05 - Global Asthma Network Phase I Study In Mexico. Prevalence Of Asthma Symptoms, Risk Factors And Altitude Associations: A Cross-Sectional Study.

Nayely Reyes Noriega, Mexico

P06 - Comparative Evaluation Of Differential Gene Expression Of Toll-Like Receptor Signaling Pathway In Children With Bronchial Asthma Alena Minina, Belarus

P07 - Associations Between Pediatric Asthma And High Cholesterol During Adulthood

Nirmin Juber, Taiwan

P08 - Exacerbations In Bronchiectasis: If There Is A Role Of Comorbid Asthma? Kseniia Suska, Ukraine

Topic 2 Adaptive immunity | P09 - P15

Chairs: Thomas Eiwegger, Canada and Rodrigo Jimenez-Saiz, Spain

P09 - Retrospective Analysis Of Clinical And Biochemical Patterns Associated With Anti-Ro52 Antibodies Aleksandra Opinc, Poland

P10 - Comparison Of Two Strategies To Generate Specific Human MonoclonalAntibodies: Which Method To Choose For Which Purpose? Anna Maria Ehlers, The Netherlands

P11 - CD8 Expression On NK Lymphocytes Has Different Significance For Killing HLA-Positive And HLA-Negative Targets
Taras Petrovych Baranovskyi, Ukraine

P13 - Characteristic Of The Subpopulation Composition Of Lymphocytes In Children Suffering From A Gastrointestinal Form Of Food Allergy Valeriy Mukhortykh, Russia

P14 - A Rare Case Of Adult Onset Periodic Fever Accompanied By Aphthous Stomatitis, Pharyngitis And Cervical Adenitis Syndrome (PFAPA Syndrome) Coinciding With Selective IgA Deficiency Seda Altiner, Turkey

P15 - Naringenin Supplementation During Breastfeeding Abrogates Eosinophilic And Neutrophilic Lung Inflammation Via An Increase In Regulatory T Cells Ricardo Wesley Alberca-Custódio, Brazil

Topic 3 Microbiome and metabolism | P16 – P23

Chairs: Eva Untersmayr-Elsenhuber, Austria and Milena Sokolowska, Switzerland

P16 - Targeted Identification Of New Parasite Immunomodulators Against Allergic Asthma Vivien Shek, United Kingdom

P17 - Basophil Activation Test From The Bench To The Bedside: In-Vitro Approach Of Hypersensitivity Reactions Induced By Antineoplastic Agents. Claudia Geraldine Rita, Spain

P18 - M-MDSC Are Expanded In Chronic Lymphocytic Leukaemia (CLL) Patients And Have Highly Suppressive Phenotype Michal Konrad Zarobkiewicz, Poland

P19 - The Characterisation Of Monocyte-Derived Dendritic Cells (MoDCs) From UPM Exposed Triple Cell Co-Culture Model Of Asthma, COPD Patients And Healthy Controls Paulina Misiukiewicz-Stepien, Poland

P20 - Latest Insights On The Effects Of Physical Exercise On Cellular Immunosenescence Emelyn Mathot, Belgium

P21 - Application Of Vitamin D3 As A New Potential Target In Mutual Interactions Regulation Of Orbital Fibroblasts And Immune Cells Derived From Graves' Orbitopathy Patients.
Aleksandra Starosz, Poland

P22 - Plasma Level Of IL-19, IL-17A, IL-4 And IL-1beta InChildren With Atopic Dermatitis.

Karolina Dumycz, Poland

P23 - Characterisation Of Long Term Myeloid Cell Dynamics During Respiratory Syncytial Virus Infection. Matthew Oliver Burgess, United Kingdom

Saturday, 23 January 2021

08:00 - 09:00 Human inflammatory ILC2 in type 2 inflammations Hergen Spits, The Netherlands

Chair: Inge Kortekaas Krohn, Belgium

09:00 - 09:20	Coffee Break
09:20 - 11:00	Oral Abstracts Presentations III Chair: Inge Kortekaas Krohn, Belgium and Cristina Gomez-Casado, Spain
09:20 - 09:45	O09 - The Fusion Of FlaA, The TLR5-Ligand Flagellin A, With The Birch Pollen Allergen Bet V 1 Induces Regulatory B Cells With TH2-Suppressing Capacity In Vitro Alexandra Goretzki, Germany
09:45 - 10:10	O10 - Macrophages Stimulated With The Flagellin Allergen Fusion Protein RFlaA:Betv1 Display A MyD88- And MAPK-Dependent Activation Of Glycolysis And Suppress Allergen-Specific Th2 Responses In Vitro Yen-Ju Lin, Germany
10:10 - 10:35	O11 - Agnuside Ameliorates Allergen Induced Airway Inflammation By Modulating PI3K/Akt/NF-KB, STAT-3/P38 Signaling And GATA-3 Mediated Th2 Response In Murine Model Narendra Vijay Tirpude, India
10:35 - 11:00	O12 - Transcriptomic Profiling Of MSC-Mediated Regulation Of Neutrophilic Lung Inflammation Revelated A Novel Metabolic Mechanism Marlena Tynecka, Poland
11:00 - 14:50	Break
14:50 - 16:30	Oral Abstracts Presentations IV Chair: Jürgen Schwarze, United Kingdom and Jessica Strid, United Kingdom
14:50 - 15:15	O13 - Human Precision Cut Intestinal Slices As A Novel Ex Vivo Model Of Acute, IgE Mediated Food Allergy Lisa Hung, Canada
15:15 - 15:40	O14 - Quantification Of Pru P 3-Specific IgG1 In Lipid Transfer Protein Allergic Patients Carmela Pablo-Torres, Spain
15:40 - 16:05	O15 - Characterization Of B Cells In Food Allergic Children During Oral Immunotherapy And Natural Tolerance Pattraporn Satitsuksanoa, Switzerland
16:05 - 16:30	O16 - Basophil Activation Test Shows High Accuracy In The Diagnosis Of Peanut And Tree Nut Allergy: The Markers Of Nut Allergy Study (MONAS) Lucy Duan, Canada
16:30 - 17:30	A role for the IgE-FceRI axis in host defence Jessica Strid, United Kingdom Chair: Jürgen Schwarze, United Kingdom
17:30 - 19:00	Dinner break
19:00-20:00	Networking event

20:00 - 21:00 Poster Session II

Topic 4 Immunotherapy and biologicals | P24 - P31

Chairs: Thomas Eiwegger, Canada and Anna Sediva, Czech Republic

- P24 Modulatory Effect Of Untreated And Inactivated Bifidobacterium Adolescentis CCDM 373 On Cells Of The Respiratory System Marcelina Pyclik, Poland
- P25 Molecular Sensitization Profile In Patients Allergic To Bee Venom And Possible Association With Reaction During Ultra-Rush Induction Protocol Maria Inês Silva, Portugal
- P26 Assessment Of Various Methods Of In Vivo And In Vitro Diagnosis Of Patients With Rhinoconjunctivitis Caused By House Dust Mite (HDM) As An Assessment Of Potential Biomarkers Of Allergen Tolerance Anna Kosowska, Poland
- P27 Effectiveness Of The Bifidobacterium Surface Molecules In The Treatment Of Allergy Diseases Katarzyna Pacyga, Poland
- P28 Determining The Mode Of Action Of Hookworm Protein For The Treatment Of Inflammatory Bowel Disease Jessica Lauren Wilkie, Australia
- P29 Features Of Sensitization To Weeds In Russia Anatoly Bala, Russia
- P30 Generation Of Monoclonal Antibodies Against Atlantic Cod Parvalbumin And Their Reactivity With Recombinant Fish Allergens Aiste Sliziene, Lithuania
- P31 Desensitization To Trimetropim / Sulfametoxazole In Infection With Toxoplasma Gondii. Zulay Maria Almeida Sánchez, Spain

Topic 5 Allergen molecules | P32 - P40

Chairs: Cristina Gomez-Casado, Spain and Jozef Janda, Czech Republic

- ${\sf P32}$ Identification Of Pru Du 6 As A Potential Marker Allergen For Almond Allergy
- Stefan Kabasser, Austria
- P33 The Structure Of Sensitization To Food Allergen Extracts And Molecules Among Patients With Allergic Rhinitis In Dnipro, Ukraine Kateryna Gashynova, Ukraine
- P34 Autoallergic CSU Patients Exhibit A Distinct Sensitization Profile To Exoallergens Yi-Kui Xiang, Germany
- P35 A Novel Method For Total IgE Purification From Human Serum Fariza Badloe, Belgium

- P36 Activated Phosphoinositide 3-Kinase Delta Syndrome 1: Clinical And Immunological Data From An Italian Cohort Of 8 Patients Giulio Tessarin, Italy
- P37 The Effect Of Resistance Exercise On The Immune Cell Function In Humans: Protocol For A Systematic Review Salimans Lene, Belgium
- P38 Early-Onset Systemic Lupus Erythematosus And Fungal Infections: Do These Gene Mutations Explain The Phenotype? Claudia Alejandra Del Carmen Renteria Valdiviezo, Peru
- P39 Diagnostic Value Of Potassium, Ammonium And Calcium Ions Levels In The Oral Fluid After Provocation In Patients With Apple Allergy. Alena Matsko, Belarus
- P40 Temperature-Controlled Laminar Airflow (TLA) In Adult Atopic Dermatitis Patients An Observational Study Stephan Traidl, Germany

Topic 6 Barriers and allergy | P41 - P48

Chairs: Wojciech Feleszko, Poland and Inge Kortekaas Krohn, Belgium

- P41 The Potential Benefit Of Synbiotic-Containing Amino-Acid-Based Formula On Otitis Media Outcomes Loret Keulers, The Netherlands
- P42 Photodermatitis In Patients With Tattoos And Sensitization To Titanium Dioxide Natalia Aliakhnovich, Belarus
- P43 The Influence Of N-Acetylcysteine (NAC) On Barrier And Inflammatory Signatures Of Intestinal Epithelial Cells Larissa Koidl, Austria
- P44 Nasal Allergen Challenge: Profiling Airway Inflammation Markers In Nasal Mucosal Lining Fluid From A Single Grass Pollen Allergic Individual Eleftheria Pertsinidou, Sweden
- P46 The Effect Of HRV16 On T2-Type Cytokine Profile Of Human Pulmonary Vascular Endothelium – Potential Intracellular Mechanisms Mateusz Gawrysiak, Poland
- P47 Transmission Of Rhinovirus HRV16 Infection From Airway Epithelium To The Vascular Pulmonary Endothelium In An In Vitro Model Robert Szewczyk, Poland
- P48 IgE Dependent Reactions For Food Additives In Urticaria Patients. Beata Sadowska, Poland

Sunday, 24 January 2021

08:00 - 09:00

Immune homeostasis by normal IgG: lessons learnt from intravenous immunoglobulin immunotherapy Jagadeesh Bayry, France

Chair: Eva Untersmayr-Elsenhuber, Austria

09:00 - 09:20	Coffee Break
09:20 - 11:00	Oral Abstracts Presentations V Chair: Eva Untersmayr-Elsenhuber, Austria and Jürgen Schwarze, United Kingdom
09:20 - 09:45	O17 - Distribution Of SARS-CoV-2 Receptors And Associated Molecules In Health And Disease Urszula Radzikowska, Switzerland
09:45 - 10:10	O18 - Allergy Is A Modifiable Risk Factor For Respiratory Infections And Exacerbations In Adults With Asthma Christian Uggerhoej Woehlk, Denmark
10:10 - 10:35	O19 - The Effect Of Epithelium-Derived Innate Cytokines On The Expression Of Coronavirus 229E (AP-N) And Rhinovirus 16 (ICAM-1) Entry Receptors And Inflammatory Cytokines In Human Pulmonary Vascular Endothelium Izabela Ewa Gulbas, Poland
10:35 - 11:00	O20 - Prediction Of SARS-CoV-2 Infection Status And COVID-19 Disease Severity Based On Clinical Data With Machine Learning Damir Zhakparov, Switzerland
11:00 - 11:30	Closing Ceremony Milena Sokolowska, Switzerland Secretary Basic and Clinical Immunology section