

17th EAACI Immunology Winter School "Basic Immunology Research in Allergy and Clinical Immunology"

24 - 27 January 2019 Trysil, Norway

SCIENTIFIC PROGRAMME

Thursday, 24 January 2019

18:00 - 18:45 Welcome Reception

18:45 - 19:00 Introduction to the Winter School Jürgen Schwarze, United Kingdom

19:00 - 20:00 Innate lymphoid cells in mucosal inflammation

Jenny Mjösberg, Sweden

Chair: Madeleine Radinger, Sweden

20:00 - 22:00 Dinner

Friday, 25 January 2019

08:00 - 09:00 Regulatory T Cell Subversion as a Key Pathogenic Mechanism in

Allergic Disorders

Talal Chatila, United States

Chair: Milena Sokolowska, Switzerland

09:00 - 09:20 Coffee Break

09:20 - 11:00	Oral Abstracts presentation I – Lymphocytes Chair: Milena Sokolowska, Switzerland Talal Chatila, United States
09:20 - 09:45	O01 - Activated Th2 Cells Are Characterized By Fatty Acid Metabolism In Vivo Graham Anthony Heieis, United Kingdom
09:45 - 10:10	O02 - Experimental Rhinovirus Infection Induces Extensive Antiviral Response In Circulating B Cells From Asthmatic Patients Oliver F Wirz, Switzerland
10:10 - 10:35	O03 - MicroRNA Expression Patterns In IL-33 Challenged Bone Marrow And Lung – Role Of MTOR And MAPK Signaling Pathways Emma Winberg, Sweden
10:35 - 11:00	O04 - In Vivo T Regulatory Cell Regulation During Human Rhinovirus Infection Kirstin Jansen, Switzerland
11:00 - 16:30	Break
16:30 - 17:30	Dendritic cells and macrophages in promotion and regulation of pulmonary type 2 inflammation Andrew S. MacDonald, United Kingdom Chair: Jürgen Schwarze, United Kingdom
17:30 - 17:50	Coffee Break
17:50 - 19:30	Oral Abstracts presentation II – Asthma & Asthma models Chair: Jürgen Schwarze, United Kingdom Andrew S. MacDonald, United Kingdom
17:50 - 18:15	O05 - Human Volatilome Analysis To Identify Individuals With Asthma In Clinical Settings Mariana Valente Farraia, Portugal
18:15 - 18:40	O06 - Staphylococcus Aureus-Derived Serine Protease-Like Protein D Induces Allergic Asthma, Dependent On The Genetic Background Of Mice Sharon R. Van Nevel, Belgium
18:40 - 19:05	O07 - Preventing Airway Mucus By Delivering Allergen Via Microprojection Array Skin Patches To Mice Nicole Monica Dawn van der Burg, Australia
19:05 - 19:30	O08 - FceRI Expression In Peripheral Blood Mononuclear Cells In The Context Of Asthma Jonatan Leffler, Australia
19:30 - 21:00	Dinner
21:00 - 22:00	Poster Session I
	Topic 1: Basic and Clinical Immunology P01-P10 Chair: Isabella Quinti, Italy Florenina Sava, United Kingdom
	P01 - Phenotypic And Functional Landscape Of B-Cells In Essential Mixed Cryoglobulinemia Stefania Colantuono, Italy
	P02 - Respiratory Tract Colonization By H. Influenzae And S. Pneumoniae In Common Variable Immunodeficiency: Risk-Factors And Clinical Consequence In Patients With Humoral Defect Federica Pulvirenti, Italy

P03 - Immunoglobulin G Subclass Deficiencies In Children And Adults: Immunological And Clinical Profile And Need For Immunoglobulin Replacement Therapy?

Jarno F.C. De Craemer, Belgium

P04 - HLA -B52* Is Strongly Associated With Disease Severity In Takayasu's Arteritis Patients In Serbia

Maja Stojanovic, Serbia

P05 - Functional Inhibitory Siglec-6 Is Upregulated In Human Colorectal Cancer-Associated Mast Cells

Yingxin YU, The Netherlands

 $\mbox{P06}$ - The Role Of The Transcription Factor T-Bet In B Cell Differentiation And Function

Imran Akdemir, Turkey

P07 - Stress Hormones, Cell Immunity And Genetic Polymorphism Of Protein Coding GABRA6 Gene Among Different Professional Groups Mariya Vlado Ivanovska, Bulgaria

P08 - Wasp Venom Allergy In A Patient With Systemic Mastocitosis: A Challenging Therapeutic Approach
Maria Luís Marques, Portugal

P09 - Modulation Of Vascular Endothelial Growth Factor And Matrix Metalloproteinase-9 ProductionBy Metoprolol In Human Hematopoietic Cells

Fatemeh Hajighasemi, Iran

P010 - Th17- And Th22- Related Cytokines In Arterial And Venous Blood Of Patients Affected By Systemic Sclerosis (SSc) With And Without Digital Ulcers (DU)

Stefania Nicola, Italy

Topic 2: Innate immunity and epithelial barriers | P11-P18

Chair: Frode Jahnsen, Norway | Edward Pearce, Germany

P011 - Characterization Of Alum-Induced NET-Formation In Human Neutrophils

Manuel Reithofer, Austria

P012 - Electrical Impedance Spectroscopy For The Assessment Of Skin Epithelial Barrier Defects

Arturo Ottavio Rinaldi, Italy

P013 - The Effect Of Bacteriophages On Innate Lymphoid Cells Anna Globinska, Switzerland

P014 - Oral Mucosa Remodeling Occurs In Severe Allergic Patients *Javier Sanchez Solares, Spain*

P015 - Novel Evidence That BAFF Directly Regulate Epithelial Barrier Function

Andrzej Eljaszewicz, Poland

P016 - Bacillus Calmette-Guérin Immunotherapy Boosts Innate Immunity In Recurrent Respiratory Papillomatosis Evelina Vetskova, Bulgaria

P017 - Activation And Maturation Differences Between Myeloid And Monocyte-Derived Dendritic Cells In Patients With Immediate Allergic Reactions To Betalactams

Rubén Fernández-Santamaría, Spain

P018 - Activated Intestinal Epithelial Cells Conditioned With 2'-Fucosyllactose And CpG ODN Might Instruct MoDC To Drive Th1 Differentiation

Veronica Ayechu Muruzabal, The Netherlands

Topic 3: Allergens and allergic inflammation | P19-P26

Chair: Stefanie Eyerich, Germany | Talal Chatila, United States

P019 - Structure Based Epitope Grafting As A Tool For Exploring The Conformational IgE Epitopes Of The Major Birch Pollen Allergen, Bet V 1 Stefanie Schmalz, Germany

P020 - Adolescent Preconceptional Smoking Alters The Body Weight Of The Next Generation In A Sex-Specific Manner Barbara Hammer, Germany

P021 - Mast Cell Heterogeneity Landscape In Fetal Skin: An Effector Player In Pediatric Allergies?

Rasha Msallam, Singapore

P022 - Longitudinal Immunoglobulin Heavy-Chain Repertoire Profiling Of Memory B Cell, Plasmablasts And Plasma Cells From Peripheral Blood Of Individuals With Birch Pollen Allergy Artem Ilyich Mikelov, Russia

P024 - Identification And Purification Of 38KDa Major Allergen From A Common Indoor Fungus Aspergillus Ochraceus Found In Eastern India Sangeeta Roy, India

P025 - Characterization Of Amoxicillin- And Clavulanic Acid-Specific T-Cells In Patients With Amoxicillin-Clavulanic Acid Hypersensitivity Reactions *Adriana Ariza Veguillas, Spain*

P026 - Post-Translational Modifications Of Major Allergens Bet V 1 And Ara H 2 Expressed In Nicotiana Benthamiana Plants Öykü Üzülmez, Turkey

Saturday, 26 January 2019

08:00 - 09:00	Clinical and immunological consequences of sublingual
	immunotherapy with recombinant allergens
	Barbara Bohle, Austria

Chair: Henry Mc Sorley, United Kingdom

09:00 - 09:20 Coffee Break

Oral Abstracts presentation III – Allergens & tolerance inductionChair: Henry Mc Sorley, United Kingdom | Barbara Bohle, Austria

09:20 - 09:45 O09 - A New Hypoallergenic Ara H 2 Mutant For Potential Use In AIT-In

Vitro And In Vivo Studies

Angelika Tscheppe, Austria

09:45 - 10:10	O10 - Polymerized Allergoids Coupled To Non-Oxidized Mannan (PM) Drive Monocyte Differentiation Into Tolerogenic Dendritic Cells And Anti-Inflammatory Macrophages Cristina Benito Villalvilla, Spain
10:10 - 10:35	O11 - A Novel Pectate Lyase Allergen Hel A 6: Characterization And In Silico Multi-Epitope Vaccine Designing Nandini Ghosh, India
10:35 - 11:00	O12 - Development Of A Potential New Vaccine Candidate For House Dust Mite Allergen Immunotherapy By Destroying IgE-Binding While Preserving Immunogenicity Of The Major Allergen Der P 2. Lisa Naomi Pointner, Austria
11:00 - 16:30	Break
16:30 - 17:30	The role of the microbiome in allergy and asthma Liam O'Mahony, Ireland Chair: Eva Untersmayr, Austria
17:30 - 17:50	Coffee Break
17:50 - 19:30	Oral Abstracts presentation IV – Epithelium & microbes Chair: Eva Untersmayr, Austria Liam O'Mahony, Ireland
17:50 - 18:15	O13 - Heligmosomoides Polygyrus Infection Induces Anti-Viral Gene Expression In The Lung Epithelium And Immune Cells Matthew Oliver Burgess, United Kingdom
18:15 - 18:40	O14 - JAK1/3-Inhibition Preserves Epidermal Morphology In Full Thickness 3D Skin Models Of Atopic Dermatitis And Psoriasis <i>Karlijn Lieve Clarysse, Belgium</i>
18:40 - 19:05	O15 - The Gut-Lung Axis Backwards: Allergic Airway Diseases Modulate The Microbial Composition In The Gut Elke Korb, Austria
19:05 - 19:30	O16 - Lactobacillus Casei AMB-R2 Restores Nasal Epithelial Barrier Integrity In Chronic Rhinosinusitis By Increasing The Expression Of Tight Junctions Katleen Martens, Belgium
19:30 - 21:00	Dinner
21:00 - 22:00	Poster Session II
	Topic 4: Mechanisms and treatment of food allergy P27-P34 Chair: Madeleine Radinger, Sweden Jenny Mjösberg, Sweden
	P027 - Efficacy And Safety Of Low-Dose Oral Immunotherapy For Patients With Wheat-Induced Anaphylaxis Ken-ichi Nagakura, Japan
	P028 - Impact Of Mouse Feed Composition On Immune Response And

P029 - In Vitro And In Vivo Evaluation Of A Combination Of Dietary ScGOS:LcFOS And N-3 PUFA In Prevention Of Cow's Milk Allergy

Food Allergy Development Nazanin Samadi, Austria

Kirsten Szklany, Denmark

P030 - Jug R 6 Is The Allergenic Vicilin Present In Walnut Kernels Responsible For IgE Cross-Reactivities To Other Tree Nuts And Seeds Pawel Dubiela, Austria

P031 - Household Exposure To Food Allergens: A Risk For Sensitization? *Izabel Alvares, United Kingdom*

P032 - Functional And Phenotypic Analysis Of Allergen-Specific B Cells In Cow's Milk Allergy And Tolerance

Pattraporn Satitsuksanoa, Switzerland

P033 - Titanium Dioxide Nanoparticles May Prevent Food Allergy And Anaphylaxis Development

Natalia Aliakhnovich, Belarus

P034 - Unprocessed Cow's Milk Suppresses Allergic Symptoms In A Murine Model For Food Allergy – A Potential Role For Epigenetics Suzanne Abbring, The Netherlands

Topic 5: Respiratory allergies and asthma | P35 - P43B

Chair: Hermelijn Smits, The Netherlands | Andrew S. MacDonald, United Kingdom

P035 - Association Between Circulating And Mucosal Associated Type 2 Innate Lymphoid Cells In Patients With Asthma Lobna Abdelaziz Abdelazim Abdelaziz Elkorashi, Egypt

P036 - Association Of CD14 Rs2569190 Polymorphism With Perennial Allergic Rhinitis In The Population Of Kiev, Ukraine *Taras Petrovych Baranovskyi, Ukraine*

P037 - Glucocorticoid Signaling In Different Asthma Phenotypes – A Potential Role For MRNA-MiRNA Interactions

Julie Marie Weidner, Sweden

P038 - The Role Of Sphingosine-1-Phosphate In The Pathogenesis Of Asthma

Thomas James Aidan Maguire, United Kingdom

P039 - MicroRNA Expression In Cytokine Stimulated Airway Epithelial Cells And Their Involvement In Asthma Related Pathways Elisabeth Ax, Sweden

P040 - Clinical And Immunological Approaches Between The Obesity Asthma Phenotype

Marina Marina Bantulà Fonts, Spain

P041 - House Dust Mite (HDM) Allergen Induces Type 2 Inflammation In A Novel Experimental Asthma Model In Guinea Pig Patricia Ramos-Ramirez, Sweden

P042 - Characteristics of patients admitted to emergency department for asthama attach: a real life study *Monica Fornero, Italy*

P043 - Protocol For Randomized, Outcome Assessor Blinded, Clinical Study: The ATOM Study: Asthma Severity In Women: The Influence Of Training And Menopause

Erik Sören Halvard Hansen, Denmark

Topic 6: Allergy treatment and immunomodulation

Chair: Barbara Bohle, Austria | Jan Gutermuth, Belgium

P044 - Safety Of Subcutaneous Allergen Immunotherapy In Seniors- 2 Year Observational Study

Piotr Lacwik, Poland

P046 - Therapeutic Effects Of Mesenchymal Stem Cells In An Animal Model Of Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis *In Young Oh, South Korea*

P047 - The Role Of Allergen-Specific IgG Antibodies In The Induction Of Clinical Tolerance For The Birch Pollen-Related Apple Allergy Gabriela Sánchez Acosta, Austria

P048 - Mapping The Antibody Specificity In Birch-Related Soy Allergic Patients Before And After Allergen Immunotherapy Lisbeth Ramirez Caballero, Germany

P049 - Tolerance Induction By Prophylactic Epicutaneous Allergen-Specific Immunotherapy In A Preclinical Model Of Hymenoptera Venom-Sensitized Mice

Mathias Schuppe, Germany

P050 - Assessment Of The Potential Anti-Inflammatory Effect Of Phytocannabinoids In An In Vitro Mouse Inflammatory Model System Noémi Miltner, Hungary

Sunday, 27 January 2019

08:00 - 09:00 Dynamic metabolic reprogramming during macrophage activation Edward Pearce, Germany

Chair: Frode Jahnsen, Norway

09:00 - 09:20 Coffee Break

09:20 - 11:00 Oral Abstracts presentation V - Innate immunity

Chair: Edward Pearce, Germany | Frode Jahnsen, Norway

O17 - House Dust Mite Drives Pro-Inflammatory Eicosanoid Reprogramming And Macrophage Effector Functions Fiona Henkel, Germany

O18 - Induction Of In Vitro And In Vivo Cross-Tolerance In Birch Pollen Allergic Patients With Associated Food Allergy By Human Tolerogenic IL-10 Modulated Dendritic Cells

Patricia Vanessa Rostan, Germany

O19 - Neutrophils Promote Allergic Inflammation By Presenting Allergen To Specific CD4+ T-Cells Dominika Polak, Austria

O20 - Reprogramming Of Lipid Mediator Metabolism Determines Macrophage "training" During Type 2 Immune Responses Antonie Friedl, Germany

11:00 - 11:30 Closing Ceremony and Prize Giving

Eva Untersmayr, Austria