



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 - 09:45 001 - Activated Th2 Cells Are Characterized By Fatty Acid Metabolism In Vivo
Graham Anthony Heieis, United Kingdom
- 09:45 - 10:10 002 - Experimental Rhinovirus Infection Induces Extensive Antiviral Response In Circulating B Cells From Asthmatic Patients
Oliver F Wirz, Switzerland
- 10:10 - 10:35 003 - MicroRNA Expression Patterns In IL-33 Challenged Bone Marrow And Lung – Role Of MTOR And MAPK Signaling Pathways
Emma Winberg, Sweden
- 10:35 - 11:00 004 - 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 - 18:15 005 - Human Volatilome Analysis To Identify Individuals With Asthma In Clinical Settings
Mariana Valente Farraia, Portugal
- 18:15 - 18:40 006 - 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 - 19:05 007 - Preventing Airway Mucus By Delivering Allergen Via Microprojection Array Skin Patches To Mice
Nicole Monica Dawn van der Burg, Australia
- 19:05 - 19:30 008 - FcεRI 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 | Florentina 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

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 Mastocytosis: A Challenging Therapeutic Approach

Maria Luís Marques, Portugal

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

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 Üzülmöz, Turkey

Saturday, 26 January 2019

08:00 - 09:00	Clinical and immunological consequences of sublingual immunotherapy with recombinant allergens Barbara Bohle, Austria <i>Chair: Henry Mc Sorley, United Kingdom</i>
09:00 - 09:20	Coffee Break
09:20 - 11:00	Oral Abstracts presentation III – Allergens & tolerance induction <i>Chair: Henry Mc Sorley, United Kingdom Barbara Bohle, Austria</i>
09:20 - 09:45	O09 - A New Hypoallergenic Ara H 2 Mutant For Potential Use In AIT-In Vitro And In Vivo Studies <i>Angelika Tscheppe, Austria</i>
09:45 - 10:10	O10 - Polymerized Allergoids Coupled To Non-Oxidized Mannan (PM) Drive Monocyte Differentiation Into Tolerogenic Dendritic Cells And Anti-Inflammatory Macrophages <i>Cristina Benito Villalvilla, Spain</i>
10:10 - 10:35	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. <i>Lisa Naomi Pointner, Austria</i>
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
Karlijn Lieve Clarysse, Belgium
- 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 Food Allergy Development
Nazanin Samadi, Austria
- 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
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
Patraporn 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 - P43

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 asthma attack: 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 | P44 – P50

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
- 09:20 – 09:45 O17 - House Dust Mite Drives Pro-Inflammatory Eicosanoid Reprogramming And Macrophage Effector Functions
Fiona Henkel, Germany
- 09:45 – 10:10 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
- 10:10 – 10:35 O19 - Neutrophils Promote Allergic Inflammation By Presenting Allergen To Specific CD4+ T-Cells
Dominika Polak, Austria
- 10:35 – 11:00 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