

# 1. Day - Wednesday, 14 March 2018

Poster Session 1	Dendritic cells
19:30, Room: Foyer A1	Chairs: Marina Sabaté Brescó, Remo Frei
P001 <b>Maren B. Solhaug</b>	Antigen presenting cells of the human oral cavity
P002 <b>Olaf Perdjik</b>	Bovine lactoferrin inhibits dendritic cell differentiation and induces small intestine homing on T cells
P003 <b>Hélène Letscher</b>	A population a plasmacytoid dendritic cell precursor as potent regulators of autoimmune Experimental Autoimmune Encephalomyelitis
P004 <b>Linette Willemsen</b>	Maturation of dendritic cells in the combined presence of peanut-extract and scFOS/IcFOS enhances T cell proliferation in an autologous peanut-specific DC-T cell assay
P005 <b>Timothy Radstake</b>	Transcriptomics and epigenomic imprinting by CXCL4 drives a pro-inflammatory biology and extra cellular matrix production by dendritic cells
P006 <b>Sara Feigelson</b>	ICAMs are not obligatory for functional immune synapses between naïve CD4 T cells and lymph node DCs
P007 <b>Karsten Mahnke</b>	Induction of T cell hyporesponsiveness by adenosine producing immature dendritic cells
P008 <b>Ourania Koltsida</b>	Plasmacytoid dendritic cells drive acute exacerbations of asthma
Poster Session 2	Epithelium and tissue response
19:30, Room: Foyer A1	Chairs: Paulina Wawrzyniak, Georgios Bellibasakis
P009 <b>Anwar Sayed</b>	The Effect of Ageing on the Stromal Integrity of The Secondary Lymphoid Organs (SLO)
P010 <b>Marianne Spalinger</b>	Heat shock protein GP96 is essential for self-renewal of the intestinal epithelial barrier
P011 <b>Matthias Mack</b>	Basophils contribute to cardiac allograft fibrosis by release of IL-4
P012 <b>Veronica Ayecheu</b>	Activated intestinal epithelial cells conditioned with 2'-Fucosyllactose and CpG ODN instruct moDC to drive Th1 differentiation
P013 <b>Pedro Papotto</b>	Gamma-delta T cells shape pulmonary innate immune cell compartments at homeostasis
P014 <b>Truong San Phan</b>	Regulation of skin immune homeostasis by keratinocyte-derived de novo glucocorticoids
Poster Session 3	T and B cell memory and immune regulation I
19:30, Room: Foyer A1	Chairs: Judith Allen, Thomas Eiwegger
P015 <b>Peter Rhein</b>	Imaging flow cytometry enhances the detection of small particles and rare events enabling emerging applications in immunology and oncology
P016 <b>Abhinandan Devaprasad</b>	Large scale transcriptome profiling of 24 for immune cell subsets and their progenitors reveals progenitor plasticity and complex regulation of human hematopoietic cell lineages
P017 <b>Eric Hjalmarsson</b>	Intra lymphatic immunotherapy (ILIT) affects T-cell differentiation in lymph nodes and peripheral blood and reduces pollen induced nasal symptoms
P018 <b>Anne Trefzer</b>	TCR tuning and exhaustion of CD4+ T cells by persisting antigen
P019 <b>Raj Raghupathy</b>	Immunoregulatory cytokine profiles in intra-uterine growth restriction (IUGR)
P020 <b>Barbara Stanic</b>	Identification and validation of immunogenic peptides of <i>Staphylococcus epidermidis</i> in the patients with bone infection
P021 <b>Karim Brandt</b>	Follicular regulatory helper T cells control the response of regulatory B cells to a high-cholesterol diet
P022 <b>Christopher Piper</b>	The Aryl Hydrocarbon Receptor (AhR) is a key transcriptional regulator of IL-10 in B cells
P023 <b>Patraporn Satitsuksanoa</b>	Mechanisms of immune tolerance to food allergens
P024 <b>Joerg Schlegel</b>	Virtual sorting as a new image cytometry method for deep phenotyping of rare cells in the blood of oncology patients
P025 <b>Mara Biasin</b>	The interleukin 21 (IL 21)/ microRNA-29 (mir29) axis is associated with natural resistance to HIV-1 infection
P026 <b>Josefine Negrassus</b>	A critical role for the orphan nuclear receptor LRH-1/NR5a2 in the regulation of T cell functions
Poster Session 4	Innate immune response
19:30, Room: Foyer A1	Chairs: Fintan Moriarty, Johan Verhagen
P027 <b>Alaa Terkawi</b>	Transcriptional profile of human macrophages stimulated by ultra-high molecular weight polyethylene particulate debris of orthopedic implants reveals a novel mechanism of osteolysis
P028 <b>Simon Melderis</b>	Amphiregulin aggravates glomerulonephritis via recruitment and activation of myeloid cells
P029 <b>Ahmet Eken</b>	Absence of group 3 innate lymphoid cells in DOCK8-defective HIES patients
P030 <b>Hung-Wei Cheng</b>	A two-signal program in myofibroblastic niches controls reticular cell network formation in the splenic white pulp
P031 <b>Celine Weckerle</b>	Development and characterization of mouse Th17-related V-PLEX® assays
P032 <b>Grace Poon</b>	Isolation of particle-free human ILC2s from peripheral blood mononuclear cells
P033 <b>Elke Scandella</b>	CCL19-expressing fibroblast stromal cells form an essential niche for intestinal innate lymphoid cells

- P034 **Marloes Hofstee** Severe musculoskeletal poytrauma induces reduced anti-bacterial responses in neutrophils
- P035 *withdrawn*
- P036 **Monika Gad** *In vitro* models for screening of immune modulating properties of drug candidates under immunosuppressed conditions
- P037 **Wolfram Hoetzenecker** HLA I shield tumor skin T lymphocytes from NK-cell-mediated elimination
- P038 **Haluk Barbaros Oral** Downregulation of CD80/86 expression on the surface of mouse bone marrow-derived dendritic cells via CTLA4 expression in endoplasmic reticulum
- P039 **Haluk Barbaros Oral** Silencing of CD80 and CD86 on the surface of RAW 264.7 cells via CRISPR/Cas9
- 19:30 **Poster presentations of workshops 1 - 3, Room: Main Corridor**

## 2. Day - Thursday, 15 March 2018

### Poster Session 5

### Novel vaccines, biologicals and treatments I

19:30, Room: Foyer A1

Chairs: Helga Kahlert, Steen Klysner

- P040 **Lukas Flatz** Immunoglobulin subclasses and tumor specific IgG during checkpoint inhibitor therapy in melanoma patients
- P041 **Ufuk Karakus** Development of Treg cell-stimulating IL-2/anti-IL-2 antibody complexes
- P042 **James Rush** The novel anti-CD40 monoclonal antibody CFZ533 shows beneficial effects in patients with primary Sjogren's syndrome
- P043 **Safa Baris** 25 (OH) vitamin D as an adjunct to subcutaneous allergen immunotherapy
- P044 **Tony Nguyen** Interleukin-2 complexes induce long-term acceptance of fully mismatched islet allografts
- P045 **Federico Storni** Developing virus like particles as a platform for allergy therapy
- P046 **Flurin Caviezel** Allergens displayed on virus like particles are highly immunogenic but fail to induce human derived mast cell degranulation

### Poster Session 6

### Allergy and asthma

19:30, Room: Foyer A1

Chairs: Nadine Karschuk, Willem van de Veen

- P047 **Sandra Ekstedt** A possible role for neutrophils in allergic rhinitis revealed after cellular subclassification
- P048 **Arturo Rinaldi** Electrical impedance measurements for the assessment of skin epithelial barrier defects
- P049 **Cheryl Steiman** Farm Exposure Influences Skin Microbiota In Infancy
- P050 **Angela Fallegger** Trans-maternal exposure to *Helicobacter pylori* induces stable and highly suppressive regulatory T-cells and protects against allergic asthma
- P051 **Armin Braun** NK1 receptor positive mast cell subpopulations interact with sensory nerves and lead to increase bronchoconstriction in response to capsaicin using passive sensitized human precision-cut lung slices
- P052 **Andreas Frey** Analysis of the human IgE target-epitope repertoire for the detection of new IgE specificities in allergic diseases
- P053 **Cathy Leonard** Early and late cellular changes through successful CpG/Feld1-based immunotherapy in a murine asthma model
- P054 **Nonhlanhla Lunjani** Novel immune signatures associated with paediatric atopic dermatitis
- P055 **Tim Stroisch** Langerhans and inflammatory dendritic epidermal cells in atopic dermatitis are tolerized towards TLR2 activation
- P056 **Jiasi Hu** SATB1 expression and methylation reflect FOXP3+ regulatory T cell activity during grass pollen immunotherapy

### Poster Session 7

### Novel vaccines, biologicals and treatments II

19:30, Room: Foyer A1

Chairs: Charlène Niogret, Monique Vogel

- P057 **Sudhanshu Shekhar** Intranasal immunization with commensal *Streptococcus mitis* confers protective immunity against virulent pneumococcal lung infection
- P058 **Martin Klein** Solution for allergic asthma using peptide therapy
- P059 **Gro Herredsvela Rorvik** A strategy to identify immunogenic peptides from the oral commensal species *Streptococcus mitis*
- P060 **Neelam Oswal** The role of T cells in resistance to natural JEV infection
- P061 **Frank Stolz** Next steps towards an optimal ragweed allergy vaccine based on the peptide carrier principle: single or multi component vaccine?
- P062 **Jiaqian Tang** Clinical and immunologic effects of a single dose of anti-Fel d 1-IgG4 monoclonal antibodies (mAb1/2) in cat allergic individuals: a randomized placebo-controlled study
- P063 **Franziska Thoms** Immunization of cats to induce neutralizing antibodies against Fel d 1, the major feline allergen in humans

Poster Session 8		Neuroimmunology
19:30, Room: Foyer A1		Chairs: Mario Clerici, Jens Geginat
P064	<b>Marina Saresella</b>	Stavudine inhibits caspase-1 and IL-18 release but does not modulate <i>in vitro</i> amyloid-beta-phagocytosis by macrophages
P065	<b>Juliana Komuczki</b>	Fate mapping of pathogenic T cells in inflammation
P066	<b>Mario Clerici</b>	The NLRP3/Caspase-8 inflammasome drives neuroinflammation in primary progressive multiple sclerosis
P067	<b>Silvia Tietz</b>	Absence of the junctional adhesion molecule (JAM)-B ameliorates experimental autoimmune encephalomyelitis

Poster Session 9		T and B cell memory and immune regulation II
19:30, Room: Foyer A1		Chairs: Daniel Campbell, Brecht Steelant
P068	<b>Luisa Cervantes-Barragan</b>	<i>Lactobacillus reuteri</i> induces gut intraepithelial CD4+CD8alpha alpha+ T cells
P069	<b>Andrzej Eljaszewicz</b>	BAFF regulate inflammasome activation via BAFF receptor signaling in LPS stimulated monocytes
P070	<b>Ben Herbert</b>	Red blood cells affect T cell proliferation and differentiation by binding and release of cytokines
P071	<b>Wolfram Hoetzenecker</b>	Malignant T cells inhibit anti-cancer immunity in cutaneous T cell lymphoma
P072	<b>Wolfram Hoetzenecker</b>	PD-L1 expression is an independent predictor of favorable outcome in patients with localized esophageal adenocarcinoma
P073	<b>Natalia Pikor</b>	Inflammation-induced remodeling of B cell follicle reticular cell networks orchestrates germinal center responses
P074	<b>Christoph Schlapbach</b>	Induction of PPAR-γ by IL-4 and TGF-β promotes the IL-9-expressing subpopulation of TH2 cells
P075	<b>Anna Globinska</b>	Identification of an angiogenesis-promoting B cell subsets
P076	<b>Pauline Scholler</b>	Cytokine secretion profile on PBMCs
P077	<b>Jolana Vosahlova</b>	Improved separation of Foxp3+ and Foxp3- cells in a whole blood flow cytometry assay
P078	<b>Christina Zielinski</b>	Tonicity signals drive and anti-inflammatory Th17 cell properties

19:30 **Poster presentations of workshops 4 - 6, Room: Main Corridor**

### 3. Day - Friday, 16 March 2018

Poster Session 10		Autoimmunity
19:30, Room: Foyer A1		Chairs: Anna-Carin Lundell, Christina Zielinski
P079	<b>Morad Zayoud</b>	Farnesylthiosalicylic acid, a Ras GTPases inhibitor reduce arthritis severity in the collagen type-II induced arthritis mouse model by modulating the T cells response
P080	<b>Anna-Carin Lundell</b>	Low serum insulin-like growth factor-1 in boys with recent onset of juvenile idiopathic arthritis
P081	<b>Marina Drutskaya</b>	Myeloid cell-specific TNF inhibition in experimental arthritis in mice
P082	<b>Nasrin Dashti</b>	Estimation of Diagnostic markers in Rheumatoid Arthritis
P083	<b>Jonathan Aldridge</b>	Th2 and CTLA-4+ T cell subsets correlate with higher disease activity in male untreated early rheumatoid arthritis patients
P084	<b>Anwar Sayed</b>	Eltrombopag: more than just a thrombopoietin receptor agonist in Immune Thrombocytopenia (ITP)
P085	<b>Christine Guntermann</b>	Pharmacological inhibition of RORC suppresses the Th17 pathway and alleviates arthritis <i>in vivo</i>
P086	<b>Loui Madakamutil</b>	Integrative analysis reveals CD38 as a therapeutic target for plasma cell-rich rheumatoid arthritis, pre-rheumatoid arthritis and systemic lupus erythematosus
P087	<b>Anna Sediva</b>	Increased mycobacterial susceptibility and autoinflammatory phenotype due to combination of IFNGR1 and NOD2 mutations, case report and immune function analysis
P088	<b>Karin Steinbach</b>	Transient viral infection early in life disrupts brain immune homeostasis and predisposes to CNS autoimmune disease in adulthood
P089	<b>Alex Sunshine</b>	The transcription factor Ets1 cooperates with IL17 signaling to promote autoimmunity and immunodeficiency

Poster Session 11		Therapies and transplantation
19:30, Room: Foyer A1		Chairs: Barbara Stanic, Nathan Karin
P090	<b>Sonia Tugues Solsona</b>	T-cell-derived GM-CSF mediates graft-vs-host disease but is dispensable for graft-vs-leukemia effect
P091	<b>Manon Jansen</b>	Targeting of tolerogenic dendritic cells towards heat-shock proteins: a novel therapeutic strategy for autoimmune diseases?
P092	<b>Victoria Lavrinenko</b>	Donor cell engraftment in patients with primary immunodeficiency after allogeneic hematopoietic stem cell transplantation
P093	<b>Illip Burmester</b>	In situ detection of Mesenchymal stromal cells in human placenta by Chipcytometry
P094	<b>Carolyn Brandl</b>	Humanized CD22 transgenic mouse model for <i>in vivo</i> analysis of CD22-based immunotherapy
P095	<b>Avidan Neumann</b>	Allo-reactive CD4 T-cell clones post liver transplantation show more persistence and more conversion to regulatory phenotype
Poster Session 12		Immune response to infection and commensal microbes
19:30, Room: Foyer A1		Chairs: Weronika Barcik, Marcin Wawrzyniak
P096	<b>Madeleine White</b>	Parasite cytokines: a structurally novel mimic of TGF $\beta$ which potently induces regulatory T cells
P097	<b>Olav Schreurs</b>	The regulatory role of the oral commensal <i>Streptococcus mitis</i> on human monocytes
P098	<b>Emma Savilahti</b>	Celiac disease by the age of 13 years is not associated with probiotics administration in infancy
P099	<b>Marianne Spalinger</b>	Presence of an autoimmunity-associated variant in PTPN22 promotes chronic colitis in a microbiota dependent manner
P100	<b>Mathilde Chayé</b>	Identification of schistosome molecules that drive splenic regulatory B cell development
P101	<b>Yaowapa Maneerat</b>	T cell independent specific antibody production via signaling pathways for B cell-activating factor (BAFF) and a proliferation-inducing ligand (APRIL) are induced by blood stage plasmodium falciparum hemozoin
P102	<b>Marina Sabaté Brescó</b>	<i>Staphylococcus epidermidis</i> infection progression and associated immune response in a murine fracture model: role of IL-17A
P103	<b>William Horsnell</b>	Pre-conception maternal helminth infection transfers via nursing long lasting protective cellular immunity against helminths to offspring
P104	<b>Matthew Lacorcía</b>	Modulation of allergic response in offspring from <i>S. mansoni</i> infected mothers
P105	<b>Emmanuel Souza</b>	Probiotics candidates for immunomodulation of gingival epithelial cells challenged by <i>Porphyromonas gingivalis</i>
Poster Session 13		Genetics of chronic diseases
19:30, Room: Foyer A1		Chairs: Patraporn Satitsuksanoa, Can Altunbulakli
P106	<b>Avidan Neumann</b>	Correlation between skin microbiome, skin barrier and immune gene expression pathways in atopic dermatitis lesions
P107	<b>Margarida Castro</b>	Clinical impact of 19 bp del dhfr polymorphism in bronchial asthma
P108	<b>Kiara Homil</b>	Gene expression profiles according to the atopic status of wheezing children: 4 year follow-up
P109	<b>Paulina Wawrzyniak</b>	Inhibition of CpG methylation improve the barrier integrity of bronchial epithelial cells in asthma
P110	<b>Petra Borilova Linhartova</b>	Adiponectin gene variability and plasma levels in non-obese Czech patients with asthma
P111	<b>Nadeem Fazal</b>	Identification of Louis-Bar syndrome in a family with beta-thalassemia
P112	<b>Wolfram Hoetzenecker</b>	Uniparental inheritance of junctional epidermolysis bullosa through a novel mutation of the ITGA6 gene and trisomic rescue
P113	<b>Ismail Ogulur</b>	STAT1 gain-of-function; the immune dysregulated mechanisms behind the disease
P114	<b>Adam Chaker</b>	IL-10 producing B-cells and Th17 responses during three year grass-pollen AIT
P115	<b>Adam Chaker</b>	Upper airway biomarkers reflect asthmatic lung inflammation
19:30	<b>Poster presentations of workshops 7 - 12, Room: Main Corridor</b>	