

1. Day - Wednesday, 13 March 2024

Workshop 1	Allergy and Asthma I: Identification of allergens and proteins influencing the immune response
<i>Room: Davos 1</i>	<i>Chairs: Pierre-Yves Mantel, Ozlem Goksel</i>
14:30 - 14:40	Fenja von der Höden Specific antibody response is induced by feeding transgenic barley mixture to horses, a possible oral immunotherapy for insect bite hypersensitivity
14:40 - 14:50	Elena Barletta Mass spectrometry-based identification of allergen proteins involved in seafood related allergic reactions
14:50 - 15:00	Rania Boussad Aspergillus fumigatus extract induces severe lung inflammation and the formation of multinucleated giant cells
15:00 - 15:10	Pascal Krenger Probing novel epitopes on the Plasmodium falciparum circumsporozoite protein for vaccine development
15:10 - 15:20	Alessandro Pardini Versatile and scalable nanoparticle vaccine as a scaffold against newly emerging influenza viruses
Workshop 2	B cell subsets and immune regulation
<i>Room: Davos 2</i>	<i>Chairs: Claudia Mauri, Martin Bachmann</i>
14:30 - 14:40	Stephan Schneider Investigation of B-cells in allergy concordant and discordant twins
14:40 - 14:50	Christopher Piper SIGLEC-5 – a novel immune checkpoint in B-T cell interactions
14:50 - 15:00	Juan Felipe Lopez Understanding the contribution of IgD to immune tolerance: Insights into the association of IgD expression with tolerance B cell related markers
15:00 - 15:10	Isabella Withnell Single-cell B cell panorama reveals insights into colon and lung B cell cancer immunity
15:10 - 15:20	Margot Starrenburg Dupilumab treatment decreases Type 2 MBCs, correlating with reduced IgE in pediatric AD
15:20 - 15:30	Duane Wesemann Origins and diversity of human bone marrow plasma cells in food allergy
Workshop 3	Epithelial barrier regulation
<i>Room: Forum</i>	<i>Chairs: Hedda Wardemann, Manesh Desai</i>
14:30 - 14:40	Ozlem Yesil Celiktas Development of a biomimetic human airway epithelial barrier-on-a-chip and ex vivo human airway model: Tools for evaluating silica PM 2.5 particle exposures
14:40 - 14:50	Duygu Yazici Epithelial barrier disruption and pro-inflammatory activation in gut epithelial cells induced by food emulsifiers: Unveiling Epithelitis
14:50 - 15:00	Mario Pérez-Diego Cannabinoid agonist WIN55,212-2 improves bronchial epithelial barrier alterations induced by rhinoviral infections and type 2 cytokines
15:00 - 15:10	Sena Ardici Unraveling the impact of Beta-Casomorphin-7 on gut epithelial cells: A comprehensive investigation
15:10 - 15:20	Marit Zuurveld Allergenic shrimp tropomyosin distinguishes from a non-allergenic chicken homolog by pronounced intestinal barrier disruption and downstream Th2 responses in epithelial and dendritic cell (co)culture
15:20 - 15:30	Anders Funch Mechanisms behind long-term survival of allergen-specific epidermal-resident CD8+ TRM cells
20:00	Poster presentations of workshops 1 - 3, Room: Main Corridor

2. Day - Thursday, 14 March 2024

Workshop 4	Allergy and Asthma II: Clinical applications
<i>Room: Davos 1</i>	<i>Chairs: Marie Charlotte Brüggen, Isabelle Arnold</i>
14:30 - 14:40	Jens Richter Experiences from a pilot model of a joint interdisciplinary “United Airways Clinic” at Lund University Hospital, Sweden
14:40 - 14:50	Dhanapal Govindaraj Effects of probiotic and omega-3 fatty acid supplementation on allergen and TLR ligand induced cytokine production during pregnancy
14:50 - 15:00	Rudi Hendriks Dynamics of type-2 cytokine production by circulating CD4+ and CD8+ T cells in asthma patients in relation to disease severity, season and exacerbations
15:00 - 15:10	Magdalena Zemelka-Wiacek Assessing the impact of nanoplastics on mitochondrial function and glycolytic activity in human bronchial smooth muscles and epithelial cells
15:10 - 15:20	Magdalena Zemelka-Wiacek Evaluating allergen immunotherapy efficacy in rhinoconjunctivitis patients sensitive to house dust mite: A study using allergen exposure chamber and nasal allergen challenge
15:20 - 15:30	Laurent Mascarell LILRA5 and CCL25 as candidate predictive biomarkers of AIT efficacy
Workshop 5	Regulatory and effector T cells- SYIS Workshop
<i>Room: Davos 2</i>	<i>Chairs: Elena Berletta, Wang Jiu-Yao, Paola Martinez Murillo</i>
14:30 - 14:40	Miro Emanuel Raeber Interleukin-2 immunotherapy reveals human regulatory T cell subsets with distinct functional and gatekeeper features
14:40 - 14:50	Laura Gamez-Diaz LRBA balances antigen presentation and T-cell responses via autophagy
14:50 - 15:00	Sven Sokolovic Dysfunctional Tregs in autoimmunity
15:00 - 15:10	Nariaki Asada The integrated stress response/eIF2 alpha pathway controls cytokine production in tissue-resident memory CD4 T cells
15:10 - 15:20	Sarah Adamo Distinct phenotypical and epigenetic trajectories shape CD8 T cell memory
15:20 - 15:30	Jens Geginat AD-HIES patients with impaired STAT3 signalling contain pre-Th17-cells that are activated by opportunistic pathogens to produce IL-10
Workshop 6	Immune metabolism
<i>Room: Forum</i>	<i>Chairs: Urszula Radzikowska, Oscar Palomares</i>
14:30 - 14:40	Elias Toubi Chemokine expression is increased in the skin of patients with chronic spontaneous urticaria
14:40 - 14:50	Panagiota Goutakoli CTLA4-Ig induces tolerogenic properties of dendritic cells by altering cellular metabolism
14:50 - 15:00	Ines Jardon Parages Immunometabolic reprogramming of bronchial epithelium in asthma
15:00 - 15:10	Zahava Vadasz The metabolic effects of Semaphorin3A on human T cells during homeostasis and immune-mediated diseases
15:10 - 15:20	Fabian Luther AhR agonism by tapinarof regulates TH2 and TH17 cell function in human skin
15:20 - 15:30	Jana Koch Protein Prenylation in Th1 cell activation
17:00 - 17:10	Award Ceremony for workshop prizes of workshops 1 - 3 , Room: Davos 1
20:00	Poster presentations of workshops 4 - 6 , Room: Main Corridor

3. Day - Friday, 15 March 2024

Workshop 7	Epithelial barrier and microbiome
<i>Room: Davos 1</i>	<i>Chairs: David Sancho, Ignacio Gonzalez Perez</i>
15:30 - 15:40	Michele Roth Characterization of skin and gut microbiome in children under the age of two years with IgE-mediated food allergy: Collinsella – a possible biomarker for allergy persistence
15:40 - 15:50	Yagiz Pat The influence of microbiome metabolites on gut and skin epithelial barrier
15:50 - 16:00	Ying Li 15(S)-HETE inhibits TGF-beta1 expression by activating PPAR-gamma in eosinophilic chronic rhinosinusitis with nasal polyps
16:00 - 16:10	Maciej Chalubinski Rhinoviral infection of the human lung vascular endothelium may protect from the re-infection with the rhinovirus HRV16 and coronavirus HCoV229E
Workshop 8	Neuroinflammation
<i>Room: Davos 2</i>	<i>Chairs: Nicolas Gaudenzio, Markus Kleinewietfeld</i>
15:30 - 15:40	Jiwon Kim Mechanism of cytotoxic T cell to Treg cell conversion by Poly-YE in neuroinflammation after Ischemic stroke
15:40 - 15:50	Adekunle Adeniran EBV and Memory B-cells in patients with Multiple Sclerosis
15:50 - 16:00	Margaux Verdon Perivascular fibroblasts support immune surveillance of the CNS during post-acute neurotropic coronavirus infection
16:00 - 16:10	Andrea Mauracher Elevated CD38 expression and alterations in NAD+ Levels in STAT1 GOF patients as a potential targetable driver of CD8+ T cell dysfunction
16:10 - 16:20	Selene Sodini Lineage tracing demonstrates a shared developmental window for IL-10 potent B cells early in life
Workshop 9	Immunoregulation and tumors
<i>Room: Forum</i>	<i>Chairs: Daniel Speiser, Pedro Romero</i>
15:30 - 15:40	Deeksha Raju Eosinophils demonstrate dynamic shifts in subset dominance throughout progressive stages of colorectal cancer
15:40 - 15:50	Céline Godfroid PD-1-targeted IL2v in combination with radiotherapy inhibits lung cancer growth and remodels the immune microenvironment
15:50 - 16:00	Robert Maka Influencing anti-tumor immunity by receptor-selective interleukin-2 antibody complexes
16:00 - 16:10	Mirjam Schenk TREM-1 activation as a novel immunotherapeutic approach in pancreatic ductal adenocarcinoma
16:10 - 16:20	Annika Karlsson The function of antiviral cellular and humoral immunity in cancer patients are maintained at the end of life
16:20 - 16:30	Mette-Triin Purde Propagating viral-vector-based vaccine platform as potent therapeutic strategy for solid tumor elimination
17:00 - 17:10	Award Ceremony for workshop prizes of workshops 4 - 6 , Room: Davos 1
20:00	Poster presentations of workshops 7 - 12 , Room: Main Corridor

4. Day - Saturday, 16 March 2024

Workshop 10	Infections, pathogenesis and immune responses
<i>Room: Davos 1</i>	<i>Chairs: Willem van de Veen, Philippe Krebs</i>
14:00 - 14:10	Guillem Montamat SARS-CoV-2 mRNA vaccination reveals novel antibody class switch recombination kinetics and B cell memory response dynamics in antigen-unexposed individuals
14:10 - 14:20	Rashmi Kaul Estrogen receptors are involved in mediating urinary tract immunity
14:20 - 14:30	Yasmin Shaalan Delineating the innate immunological capacity of CD4+ and CD8+ T-cells in the distal lung
14:30 - 14:40	Anna Olofsson The function of antiviral T cell immunity in children living with human immunodeficiency virus (HIV)
14:40 - 14:50	Nicholas Dopkins Endogenous retroelement expression in the gut microenvironment of people living with HIV-1
14:50 - 15:00	Ismail Ögülür Inflammatory biomarkers in circulation: Exploring their role in COVID-19 pathogenesis
Workshop 11	Inflammation, cell mediated immune responses
<i>Room: Davos 2</i>	<i>Chairs: Christian Münz, Mirjam Schenk</i>
14:00 - 14:10	Sina Bohnacker A helminth enzyme subverts macrophage-mediated immunity by epigenetic targeting of prostaglandin synthesis
14:10 - 14:20	Alessandra Gurtner Eosinophil heterogeneity at single-cell resolution in allergic airway inflammation
14:20 - 14:30	Jiu-Yao Wang Early-life EV-A71 infection augments allergen-induced airway inflammation in asthma through trained immunity of macrophages
14:30 - 14:40	Elena Barletta Immune-inflammatory proteomic fingerprint of elite athletes, amateur athletes and non-sportive controls
14:40 - 14:50	Lucas Onder Fibroblastic reticular cells generate protective intratumoral T cell environments in lung cancer
14:50 - 15:00	Chrysa Papadopoulou Ectopic lymph nodes support local control of tumor growth
15:00 - 15:10	Paola Andrea Martinez Murillo Impact of opposing signals IL4-Ra and IFN-g on neutrophils effector functions
Workshop 12	Omics methods in immune regulation
<i>Room: Forum</i>	<i>Chairs: Laurent Mascarell, Dominic Caspar</i>
14:00 - 14:10	Pia Fehrenbach Increased number of monocytes is associated with infected non-union in patients with long bone fracture
14:10 - 14:20	Angel Maldonado Cannabinoids-induced epigenetic rewiring in tolerogenic DCs enhances extracellular vesicle synthesis able to polarize Tregs
14:20 - 14:30	Mel Diedro The atopic dermatitis cellular communication atlas: investigating the host-microbiome extracellular vesicles functional interactome
14:30 - 14:40	Fabricia Heloisa Cavicchioli Sugiyama Metabolism and epigenetic rewriting of training immunity are independently modulated in monocytes from people living with HIV
14:40 - 14:50	Abhijeet Kulkarni Metabolic regulation of Th2 cell activity and phenotype by Phenylalanine
14:50 - 15:00	Damir Zhakparov Elucidating the pathogenesis of Atopic Dermatitis in African children through multimodal data integration and machine learning
12:00 - 12:15	Award Ceremony for workshop prizes of workshops 7 - 9, Room: Davos 1
15:00	Award Ceremony for workshop prizes of workshops 10 - 12 (will be given directly after the workshops by the chairpersons)