1. Day - Wednesday, 5 July 2023

Workshop 1		T- and B cell memory and immune regulation	
Room: Davos 1		Chairs: Hermelijn Smits, Jens Stein	
14:30 - 14:40	WS1	Nadine Cadosch Pericardial fat-associated lymphoid clusters control T cell activation and differentiation during autoimmune myocarditis	
14:40 - 14:50	WS2	Daniela Claudino Carvoeiro A chemokine-driven feedback loop prevents aberrant T cell activation/ overstimulation by terminating their crosstalk with dendritic cells	
14:50 - 15:00	WS3	Jannes Gavel Resident Th2 memory cells in allergic asthma	
15:00 - 15:10	WS4	Sahine Lameire The Ste20 kinase TAOK3 controls development, homeostasis and activation of abeta T cells	
15:10 - 15:20	WS5	Mara Cetty Spinella Functional and molecular analysis of SKAP2 in T lymphocytes	
15:20 - 15:30	WS6	Paul Engeroff Novel mechanisms in the regulation of serum IgE levels and anaphylaxis	
Workshop 2		Swiss Young Immunologists Society Workshop Autoimmune diseases, tumor and immune mechanisms	
Room: Davos 2		Chairs: Annika Hausmann, Paola Martínez-Murillo	
14:30 - 14:40	W07	Lenka Sukenikova The emerging role of autoreactive T cells in Guillain-Barré syndrome	
14:40 - 14:50	W08	Ziyang Tan Persistent T cell expansions are found in the peripheral blood of patients with pediatric solid tumor using longitudinal single cell profiling	
14:50 - 15:00	W09	Anne-Cathrine Vogt Probing monoclonal antibody specificity for Alzheimer's vaccine desig	
15:00 - 15:10	W10	Tiphaine Voisin Transcriptional reprogramming of skin-innervating sensory neurons in allergic contact dermatitis	
Workshop 3		Allergy and Asthma	
Room: Forum		Chairs: Stokes Peebles, Philippe Gevaert	
14:30 - 14:40	W11	Andrzej Eljaszewicz Changes in the structure of lung extracellular matrix in acute and chronic house dust mite- induced experimental asthma	
14:40 - 14:50	W12	Tanzeela Hanif The role of peripheral blood MxA levels during a first acute wheezing episode; Associations with the duration of hospitalization and subsequent report of asthma symptoms	
14:50 - 15:00	W13	Nadine Herrmann Circulating microRNA in atopic dermatitis – considering atopic comorbidities	
15:00 - 15:10	W14	Tina Hartert Long-term Effects of Respiratory Syncytial Virus Infection in Infancy on Asthma in Childhood	
15:10 - 15:20	W15	Elena Ratti Characterization of PD-L1 as novel therapeutic target in mastocytosis	
15:20 - 15:30	W16	Cansin Sackesen Hymenoptera Venom Allergy in Children and Adults: Characteristics, Severity, and Immunological Changes During Immunotherapy	
19:30		Poster presentations of workshops 1 - 3, Room: Main Corridor	

2. Day - Thursday, 6 July 2023

Workshop 4		Epithelial barriers and immune response
Room: Davos 1		Chairs: Ismail Ogülür, Charlotte Menne Bonefeld
14:30 - 14:40	W17	Daniel Cook CFTR Regulates Airway Epithelial IL-33 Release and IL-33 Dependent Inflammation
14:40 - 14:50	W18	Manru Li Household laundry detergents cause barrier dysfunction and induce inflammation in mouse and human skin
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14:50 - 15:00	W19	Deborah Minzaghi Topical exposure to Bisphenol A activates keratinocytes and induces symptoms resembling atopic dermatitis
15:00 - 15:10	W20	Emma Ruysseveldt The nasal basal cells shift towards a pro-inflammatory state in allergic rhinitis
15:10 - 15:20	W21	Dieudonnée Togbe Chronic ozone exposure induces hyperreactivity and COPD-like lung pathology that is dependent on cholinergic signalling
15:20 - 15:30	W22	Mu Xian Budesonide repairs the barrier damage caused by PM2.5 to eosinophilic nasal polyp epithelial cells but not non-inflammatory nasal epithelium
Workshop 5		Viral infections and COVID-19
Room: Davos 2		Chairs: Urszula Radzikowska, Andreas Wack
14:30 - 14:40	W23	Oral Alpan A new model for long-COVID
14:40 - 14:50	W24	Matthew Burgess Gut helminth infection promotes lung anti-viral immunity in a monocyte dependent manner
14:50 - 15:00	W25	Elisabeth De Leeuw How do allergens, RSV infection and maternal allergy conspire to promote allergy and asthma in newborns
15:00 - 15:10	W26	Corinna Holetschek Early multi-dimensional immune correlates of asymptomatic versus severe COVID-19
15:10 - 15:20	W27	Katharina Röltgen Immune imprinting and breadth of variant recognition in SARS-CoV-2 infection and vaccination
15:20 - 15:30	W28	Oliver Wirz Dissecting SARS-CoV-2-specific B cell responses in vaccinated individuals and infected patients
Workshop 6		Epigenomics and transscriptomics in immune regulation
Room: Forum		Chairs: Isabelle Arnold, Burkhard Ludewig
14:30 - 14:40	W29	Katja Baerenfaller Following the footprints to detect polypeptides encoded by non-coding RNA
14:40 - 14:50	W30	Marian Abigaile Bataclan Regulation of mast cell functions by Regnase RNA-binding proteins
14:50 - 15:00	W31	Martin Pook Epigenetic and transcriptomic landscape of skin homing CLA+ CD4+ memory T-cells in Atopic dermatitis and Psoriasis
15:00 - 15:10	W32	Yusi Liu Structure and Bioactivity of FIP-nha (Nectria haematococca): Glycosylation contributes to Fip- nha's thermostability, resistance to proteolysis and immunomodulatory activity
15:10 - 15:20	W33	Damir Zhakparov GeneSelectR: A machine learning-based R package for feature selection and biological assessment in RNAseq analysis of complex biological datasets
Workshop 7		Novel vaccines for immuno therapy and immune modulations
Room: Sertig		Chairs: Hidde Ploegh, Cevdet Ozdemir
14:30 - 14:40	W34	Matias Ciancaglini Non-cytolytic viral vaccine vectors induce type I interferon and establish long-lived effector- differentiated CD8 T cell memory
14:40 - 14:50	W35	Romano Josi A tetravalent nanovaccine against head and neck carcinoma selectively induce dendritic cells activation
14:50 - 15:00	W36	Sercan Keskin Immunological Characterization of PLGA Encapsulated mRNA Expressing Crimean-Congo Haemorrhagic Fever Virus (CCHFV) Nucleocapsid Protein (NP)
15:00 - 15:10	W37	Alessandro Pardini Versatile and scalable nanoparticle vaccine as a scaffold against newly emerging influenza viruses
15:10 - 15:20	W38	Dominik Rothen Immunogenicity evaluation of novel VLP-based vaccines against all four DENV serotypes in a preclinical trial
17:00 - 17:10		Award Ceremony for workshop prizes of workshops 1 - 3, Room: Davos 1
19:30		Poster presentations of workshops 4 - 7, Room: Main Corridor

3. Day - Friday, 7 July 2023

Workshop 8		Treatment and diagnosis of immune disorders		
Room: Davos 1		Chairs: Monique Vogel, Fintan Moriarty		
15:30 - 15:40	W39	Cristina Benito-Villalvilla The role of IgE and regulatory T cells in Crohn's disease		
15:40 - 15:50	W40	Lukas Heeb Comprehensive analysis of human IL-4 receptor subunits shows compartmentalization in steady state and dupilumab treatment		
15:50 - 16:00	W41	Kiran Kumar Mudnakudu Nagaraju Microdelivery of Allergen Powder for Safe and Effective Epicutaneous Immunotherapy		
16:00 - 16:10	W42	Mirjam Schenk BCG-hydrogel as immunotherapy in melanoma		
16:00 - 16:10	W43	Abhinav Kaushik Infrared molecular fingerprinting and protein expression in firefighters		
16:10 - 16:20	W44	Paola Martínez-Murillo Evaluation of extracellular vesicles as noninvasive early predictive markers for severe COVID-19		
16:20 - 16:30	W45	Zahava Vadasz Truncated-semaphorin3A is a potential regulatory molecule to restore immune homeostasis in immune-mediated diseases		
Workshop 9		Food allergy and gastro intestinal tissue injury		
Room: Davos 2		Chairs: Christoph Schneider, Olaf Perdijk		
15:30 - 15:40	W46	Annika Hausmann Recapitulation of human coloncytes in situ by human colon organoids in vitro and after orthologous transplantation		
15:40 - 15:50	W47	Ismail Ögülür Gut epithelial barrier damage caused by dishwasher detergents and rinse aids		
15:50 - 16:00	W48	Yagiz Pat Effect of commonly used food additives on gut barrier		
16:00 - 16:10	W49	Jan Věcek Probiotic bacteria Escherichia coli O83:K24:H31 stimulates the neonatal mucosal immune system and promotes a tolerogenic environment in the newborn gut		
16:10 - 16:20	W50	Duygu Yazici Epithelitis: barrier disruption and activation of pro-inflammatory molecules in gut epithelial cells by food emulsifiers		
16:20 - 16:30	W51	Marit Zuurveld An advanced in vitro human mucosal immune model to predict food sensitizing allergenicity risk: a proof of concept using ovalbumin as model allergen		
Workshop 10		B cell subsets and immune regulation		
Room: Forum		Chairs: Gunilla Karlsson Hedestam, Di Yu		
15:30 - 15:40	W52	Mirela Dimitrova Selective attrition of high-affinity B cells in the late phase of chronic viral infection		
15:40 - 15:50	W53	Inés Lammens Allergen induced IgA production in lung Tertiary Lymphoid Organs (TLO) is instructed by the TLO niche		
15:50 - 16:00	W54	Sanjana Narang Human immunoglobulin kappa and lambda light chain gene variation in individuals from Africa, Asia, and Europe		
16:00 - 16:10	W55	Allyssa Phelps Pathogenic IgE-fated B cell memory retains functional plasticity		
16:10 - 16:20	W56	Stijn Vanhee Development of novel transgenic mouse models to elucidate clonal adaptive immune responses towards house dust mite Der p2 in allergic airway disease		
16:20 - 16:30	W57	Anouk von Borstel Allergen-specific type 2 memory B cells in bee venom allergy are modified following ultra-rush immunotherapy		
18:35 - 18:45		Award Ceremony for workshop prizes of workshops 4 - 7, Room: Davos 1		
19:30		Poster presentations of workshops 8 - 13, Room: Main Corridor		



4. Day - Saturday, 8 July 2023

Workshop 11		Immune metabolism
Room: Davos 1		Chairs: Milena Sokolowska, Oscar Palomares
14:15 - 14:25	W58	Bart Everts O-GlcNAcylation is a crucial post-translational modification for T helper 2 cell polarization by
		dendritic cells
14:25 - 14:35	W59	Inés Jardon Parages Immunometabolic reprogramming of bronchial epithelium in asthma and during viral infection
14:35 - 14:45	W60	Jana Koch Protein Prenylation in T cell activation
14:45 - 14:55	W61	Abhijeet Kulkarni Metabolomics of circulating human memory CD4+T effector and T regulatory cells reveals that phenylalanine is a metabolic checkpoint of pathogenic Th2 cells development
14:55 - 15:05	W62	Naiqi Wang Finely-tuning of Glutathione peroxidase 4 (GPX4)-ferroptosis axis to regulate the homeostasis and function of TFH cells
15:05 - 15:15	W63	Seyram Maureen Duphey Interleukin-13 and interleukin-22 differentially regulate glycolysis in keratinocytes of patients with atopic dermatitis
Workshop 12		Allergy and Asthma and parasites
Room: Davos 2		Chairs: Johan Garssen, Oral Alpan
14:15 - 14:25	W64	Ruben Fernandez-Santamaria Protein G'-grafted mesoporous silica nanoparticles for IgG removal in the context of in vitro allergy diagnosis
14:25 - 14:35	W65	Anne-Sofie Halling Skin barrier and immune biomarkers predict development of childhood atopic dermatitis
14:35 - 14:45	W66	Abhinav Kaushik Multiplexed tissue imaging for immune cells profiling during peanut allergy immunotherapy
14:45 - 14:55	W67	Nadine Serhan Role of prenatal stress-induced fetal imprinting in offspring susceptibility to develop allergic skin inflammation
14:55 - 15:05	W68	Kyle T. Cunningham A family of helminth-derived TGF-beta mimics provide key insights to Treg and innate immune cell activation
Workshop 13		Innate immune response
Room: Forum		Chairs: Yasutaka Mitamura, Hamida Hammad
14:15 - 14:25	W69	Xiaogang Feng IL-17RB in tuft cells controls IL-25-mediated tonic ILC2 activation to maintain their proliferative
14:25 - 14:35	W70	potential
		Protective effect of halophilic archaea – Halorhabdus rudnickae and Natrinema salaciae - against genotoxic effect induced by Staphylococcal enterotoxin B (SEB) on human dendritic cells
14:35 - 14:45	W71	Andreas Ruhl Th2-dependent disappearance of alveolar macrophages in a mouse model of allergic airway inflammation
14:45 - 14:55	W72	Marcin Surmiak Dysregulation of the mTOR signalling pathway in neutrophils - a possible link to the pathophysiology of granulomatosis with polyangiitis
14:55 - 15:05	W73	Sebastian Wawrocki Non-immune cells circulating in peripheral blood and their potential role
15:05 - 15:15	W74	Reihane Ziadlou Multiplexed spatial mapping of panniculitis: Deciphering the immune profile of inflammatory subcutaneous adipose tissue microenvironment
12:00 - 12:10		Award Ceremony for workshop prizes of workshops 8 - 10, Room: Davos 1
14:55 - 15:15		Award Ceremony for workshop prizes of workshops 11 - 13 (will be given directly after the workshops by the chairpersons)

