

Session 1		Adjuvants, Vaccine Response and COVID-19 Pathogenesis
<i>Chairs/Discussants:</i> Cezmi A. Akdis, Onur Boyman		
08:30 - 09:00	S01	Ken J. Ishii Immunology of nucleic acid-based vaccine and adjuvant
09:00 - 09:30	S02	Paul Klenerman MAIT cells and responses to vaccines
09:30 - 09:45	S03	Mir-Farzin Mashreghi In severe COVID-19, SARS-CoV-2 induces a chronic, TGF- β -dominated adaptive immune response
09:45 - 10:00	S04	Yves Zurbuchen A distinct innate immune signature marks progression from mild to severe COVID-19
10:00 - 10:30		<i>Break</i>
Session 2		Mesenchymal Tissues, Stem Cells and Interaction with the Immune System
<i>Chairs/Discussants:</i> Martin Stoddart, Ali Önder Yildirim		
10:30 - 11:00	S05	Qingling Fu Crosstalk between mesenchymal stromal cells and group 2 innate lymphoid cells
11:00 - 11:15	S06	Maciej Chalubinski Lung vascular endothelium may sense respiratory viruses and potentially orchestrate immune responses during airway viral infections
11:15 - 11:30	S07	Viola Puddinu Combined immunotherapy potentiates CD8 ⁺ cytotoxic T-cell infiltration in a spontaneous mouse model of immune-excluded gastric cancer
11:30 - 11:45	S08	withdrawn
11:45 - 13:00		<i>Lunch Break</i>
13:00 - 14:00		10x Genomics Lunch Symposium Redefine immunology with multi omic single cell and spatial characterization Christophe Fleury Single-cell multi-omics analysis of the immune response in COVID-19 Emily Stephenson
14:00 - 14:15		<i>Break</i>
14:15 - 15:25		Workshops 1 & 2 (see workshop program)
15:25 - 15:40		<i>Break</i>
15:40 - 15:45		Cezmi A. Akdis Opening Address
Session 3		COVID-19 and Respiratory Immunity
<i>Chairs/Discussants:</i> Peter Ernst, Jürgen Schwarze		
15:45 - 16:15	S09	Donna Farber Human respiratory immunity in over age and COVID-19
16:15 - 16:45	S10	Harald Renz SARS-CoV-2 and asthma – a complex relationship
16:45 - 17:00	S11	Urszula Radzikowska Interaction of rhinovirus and SARS-CoV-2 infection with allergen exposure modifies antiviral response in airway epithelium in asthma
17:00 - 17:15	S12	Stefano Vavassori Multisystem inflammation and susceptibility to viral infections in human ZNF1 deficiency
17:15 - 17:30	S13	Musa Khaitov siRNA-based approach for treatment of COVID-19
17:35		Poster Sessions 1 - 3 (see poster program)

Session 4		T and B Cell Responses and Preparedness
<i>Chairs/Discussants:</i> Mübeccel Akdis, Burkhard Ludewig		
08:30 - 09:00	S14	Winfried Pickl T cell responses to SARS-CoV-2 in different stages of Covid-19
09:00 - 09:30	S15	Roger Geiger Dynamics in protein translation sustaining T cell preparedness
09:30 - 09:45	S16	Milena Sokolowska Metabolic regulation of T cells in allergen tolerance during allergen specific immunotherapy
09:45 - 10:00	S17	Zheng Liu COVID-19 and inflammatory upper airway diseases
10:00 - 10:30	Break	
Session 5		Evolution of Immunity with Microbes
<i>Chairs/Discussants:</i> Claudia Traidl-Hoffmann, Liam O'Mahony		
10:30 - 11:00	S18	Lluís Quintana-Murci Human evolutionary genetics of immunity: from Neanderthals to COVID-19
11:00 - 11:30	S19	Joerg Stelling Mathematical modelling of the immune system
11:30 - 11:45	S20	Yosuke Kurashima Pancreas-intestinal barrier axis and the control of commensal bacteria in intestinal inflammation
11:45 - 13:00	Lunch Break	
13:00 - 14:00	Fluidigm Lunch Symposium Immunological memory of SARS-CoV-2 specific antibodies and B cell responses at 12 months post SARS-CoV-2 infection Alessandra Noto	
14:00 - 14:15	Break	
14:15 - 15:15	Workshops 3 & 4 (see workshop program)	
15:15 - 15:30	Break	
15:30 - 16:30	Special Lecture Louise Harra Getting close to the sun	
16:30 - 16:45	Break	
Session 6		Type 2 Immunity
<i>Chairs/Discussants:</i> Marie-Charlotte Brügger, Yasutaka Mitamura		
16:45 - 17:15	S21	Franca Ronchese Homeostatic IL-13 production conditions skin dendritic cells to Th2 induction
17:15 - 17:30	S22	Yasutaka Mitamura Correlations between spatial gene expression, skin barrier electric impedance and serum biomarkers
17:30 - 17:45	S23	Rabia Ülkü Korkmaz C5a signaling axes in myeloid cells favor the development of type 2 innate lymphoid cells
17:45 - 18:00	S24	Ana Xavier Unraveling PI3Kgamma adaptor subunit roles: targeting allergy with minimal impact on host immunity
18:05	Poster Sessions 4 - 6 (see poster program)	

Session 7		Metabolism of Inflammation and Immune Responses
<i>Chairs/Discussants:</i> Milena Sokolowska, Domingo Barber Hernandez		
08:30 - 09:00	S25	Luke O'Neill Adventures in inflammation research
09:00 - 09:30	S26	Christoph Hess T cell immunometabolism
09:30 - 09:45	S27	Alexander Eggel Eosinophils restore age-related adipose tissue dysfunction and sustain physical and immunological fitness in old age
09:45 - 10:00	S28	Fernando Pablo Canale Metabolic modulation of tumors with engineered bacteria for immunotherapy
10:00 - 10:30		<i>Break</i>
Session 8		Development of Immune Response and Hypersensitivity
<i>Chairs/Discussants:</i> Maria José Torres Jaén, Marek Jutel		
10:30 - 11:00	S29	Ziv Shulman Antibody affinity maturation in intestinal tissues
11:00 - 11:30	S30	Cezmi A. Akdis Epithelial Barrier Hypothesis: Novel Aspects
11:30 - 11:45	S31	Valerie Verhasselt Antigen shedding in human milk: a key for immune system education?
11:45 - 12:00	S32	Barbara Bröker Allergic reactions to serine protease-like proteins of <i>Staphylococcus aureus</i> in cystic fibrosis
12:00 - 13:00		<i>Lunch Break</i>
13:00 - 14:00		Thermo Fisher Scientific Lunch Symposium Introducing the Invitrogen™ Attune™ CytPix™ Flow Cytometer: “Seeing is Believing” Gregory Kaduchak and Kate Alford The Bigfoot Spectral Cell Sorter: Accelerating Science Rachael Walker Automated Isolation of Functional T-cells Ketil Winther Pedersen
14:00 - 14:15		<i>Break</i>
14:15 - 15:15		Workshops 5 & 6 (see workshop program)
15:15 - 15:30		<i>Break</i>
Session 9		B Cell and Antibody Responses to Viruses
<i>Chairs/Discussants:</i> Willem van de Veen, Scott Boyd		
15:30 - 16:00	S33	Andreas Radbruch Circulating and resident memory B and plasma cells
16:00 - 16:30	S34	Davide Robbiani B cell memory to emerging viruses
16:30 - 17:00	S35	Onur Boyman Antibody responses and humoral immunity to SARS-CoV-2
17:00 - 17:15	S36	Carlo Cervia Systemic and mucosal antibody responses specific to SARS-CoV-2 during mild versus severe COVID-19
17:20		Poster Sessions 7 - 9 (see poster program)

Session 10		Adaptive Immune Responses in Allergic and Autoimmune Diseases
<i>Chairs/Discussants:</i> Kari Nadeau, Christian Münz		
08:30 - 09:00	S37	Scott Boyd Humoral responses to SARS-CoV-2 infection and mRNA vaccination
09:00 - 09:30	S38	Albert J.R. Heck A direct view at the individuals' plasma antibody repertoire by mass spectrometry
09:30 - 09:45	S39	Pattraporn Satitsuksanoa In-depth characterization of allergen-specific B cells in children with cow's milk-oral immunotherapy and natural tolerance
09:45 - 10:00	S40	Iris Bellinghausen Feeding of mice with short chain fatty acids prevents allergen-dependent airway and intestinal inflammation in a humanized mouse model of allergy
10:00 - 10:30		<i>Break</i>
Session 11		Immune Response to Vaccines
<i>Chairs/Discussants:</i> Claudio Rhyner, Martin Bachmann		
10:30 - 11:00	S41	Kari Nadeau Immune response during Covid-19
11:00 - 11:30	S42	Michelle Linterman Altered humoral immune responses to vaccination with age
11:30 - 11:45	S43	Nicholas Provine Adenovirus vectors activate Vdelta2+ gamma-delta T cells in a type I interferon-, TNF-, and interleukin-18-dependent manner
11:45 - 12:00	S44	Laurent Reber Dual vaccination against IL-4 and IL-13 protects against chronic allergic asthma in mice
12:00 - 13:00		<i>Lunch Break</i>
13:00 - 14:00		Becton Dickinson Lunch Symposium Fate challenge purges the Treg repertoire of a heterogeneous, unstable subset Susan Schlenner
14:00 - 14:15		<i>Break</i>
14:15 - 15:15		Workshops 7 & 8 (see workshop program)
15:15 - 15:30		<i>Break</i>
Session 12		Immunity and Regeneration
<i>Chairs/Discussants:</i> Katja Bärenfaller, Alexander Eggel		
15:30 - 16:00	S45	Ali Önder Yildirim Molecular immune mechanisms of lung tissue regeneration in COPD
16:00 - 16:30	S46	Martin Stoddart Mechanisms of bone regeneration
16:30 - 17:00	S47	Ujjwal Neogi Multi-omics analysis to understand the metabolic control of SARS-CoV-2 replication
17:00 - 17:10		Cezmi A. Akdis Closing Address