

Session 1	Innate immune response and immune regulation
<i>Chairs/Discussants:</i>	<i>Jana Pachlopnik Schmid, Cezmi A. Akdis, Kenji Kabashima, Jean Pieters</i>
08:30 - 09:00	Takashi Saito Regulation of T cell activation by innate immune signals
09:00 - 09:30	Christian Münz Human innate lymphocytes in anti-viral immune control
09:30 - 09:45	Christoph Schneider Tissue-specific pathways extrude activated ILC2s to disseminate type 2 immunity
09:45 - 10:00	Lucienne Chatenoud Immunotherapy using CD3 monoclonal antibody: towards a real cure of autoimmune disease through restoration of immune tolerance
10:00 - 10:15	<i>Break</i>
Session 2	Regulation of immune response
<i>Chairs/Discussants:</i>	<i>Lucienne Chatenoud, Christian Münz, Christoph Schneider</i>
10:15 - 10:45	Jean Pieters Tolerance of tissue antigens while maintaining anti-pathogen immunity
10:45 - 11:00	Jana Pachlopnik Schmid Role for CD48 in controlling a hyperinflammatory syndrome
11:00 - 11:15	Bruno Silva-Santos Maternal $\gamma\delta$ T cells shape mucosal microbiota and regulate pulmonary type-2 innate immune responses in the offspring
11:15 - 11:30	<i>Break</i>
11:30 - 12:45	10x Genomics Lunch Symposium Hannes Arnold Uncover the Layers of Immune Cell Complexity with Single Cell Multiomics and Spatial Gene Expression Solutions
12:45 - 13:00	<i>Break</i>
13:00 - 14:30	Workshops 1 & 2 (please see workshop program)
14:30 - 14:45	<i>Break</i>
14:45 - 15:45	Meet the Expert Session Mathias Uhlén Exploring the human proteome with antibodies, transcriptomics and mass spectrometry
15:45 - 15:55	<i>Break</i>
15:55 - 16:00	Cezmi A. Akdis Opening Address
Session 3	Deeper and more detailed on human immune response and immune regulation
<i>Chairs/Discussants:</i>	<i>Sharon Chinthrajah, Derya Unutmaz</i>
16:00 - 16:30	Petter Brodin Update on variations in human immune system
16:30 - 17:00	Mathias Uhlén The Human Blood Atlas - implications for human biology
17:00 - 17:15	Ahmet Ozen Dramatic metabolic recovery following precision therapy of CHAPLE syndrome
17:15 - 17:30	Milena Sokolowska Distribution of SARS-CoV-2 receptors and associated molecules in health and disease
17:45	Poster Sessions 1 - 3 (please see poster program)

Session 4	Tissue cells and regulation of inflammation and immune response
<i>Chairs/Discussants:</i>	<i>Ioana Agache, Cevayir Coban, Maria Jose Torres Jean, Kenji Kabashima</i>
08:30 - 09:00	Christopher Buckley Fibroblast subsets drive inflammation and damage in arthritis
09:00 - 09:30	Reinhold Förster Fibroblasts and immune cells and tertiary lymphoid structures
09:30 - 09:45	Burkhard Ludewig Microbiota-derived peptide mimics drive lethal inflammatory cardiomyopathy
09:45 - 10:00	Klara Ruppova Data-driven validation of systemic lupus erythematosus gene signature
10:00 - 10:15	<i>Break</i>
Session 5	Novel immune imaging techniques
<i>Chairs/Discussants:</i>	<i>Thomas Eiwegger, Reinhold Förster, Burkhard Ludewig</i>
10:15 - 10:45	Kenji Kabashima Prolonged high-intensity exercise induces fluctuating immune responses to herpes simplex virus infection
10:45 - 11:15	Cevayir Coban Imaging immune pathology during malaria infection
11:15 - 11:30	Sarah-Jolan Bremer 14 stages of human T cell development and reference values for the healthy thymus
11:30 - 11:45	<i>Break</i>
11:45 - 12:45	Becton Dickinson Lunch Symposium Vadir Lopez-Salmeron and Sandra Blaszkievicz The synergy of multi-parameter flow cytometry and single-cell multi-omics
12:45 - 13:00	<i>Break</i>
13:00 - 14:30	Workshops 3 & 4 (<i>please see workshop program</i>)
14:30 - 14:45	<i>Break</i>
14:45 - 15:45	Special Lecture Martin Oeggerli Visualization of the invisible
15:45 - 16:00	<i>Break</i>
Session 6	B cells and immune regulation
<i>Chairs/Discussants:</i>	<i>Mübeccel Akdis, Claudia Traidl-Hoffmann, Scott Boyd, Willem van de Veen</i>
16:00 - 16:30	Troy D. Randall Resident memory B cells in the lung
16:30 - 17:00	Nils Lycke Maintaining germinal centers in the Peyer's patches via a direct M cell B cell antigen transport system
17:00 - 17:15	Anika Habener IL-10-competent B cells control airway hyperreactivity and lung remodeling in an experimental mouse model of house dust mite-induced asthma
17:15 - 17:30	Seblewongel Asrat Chronic allergen exposure drives accumulation of long-lived IgE plasma cells in the bone marrow, giving rise to serological memory
17:45	Poster Sessions 4 - 6 (<i>please see poster program</i>)

Session 7	Covid-19 and immune response to viruses
<i>Chairs/Discussants:</i>	<i>Marie-Charlotte Brügggen, Valerie Verhasselt, Markus Ollert, Rudolf Valenta</i>
08:30 - 09:00	Rik de Swart Understanding the measles paradox - a systemic virus infection associated with both immune suppression and immune activation
09:00 - 09:30	Mihai Netea Trained immunity, COVID-19 and other infectious diseases
09:30 - 10:00	Onur Boyman Antibody responses and population immunity against COVID-19
10:00 - 10:15	<i>Break</i>
Session 8	Tumor immunity
<i>Chairs/Discussants:</i>	<i>Emmanuella Guenova, Richard Siegel, Bruno Silva-Santos, Rik de Swart</i>
10:15 - 10:45	Daniel Speiser Altered „tumor immunity gene“ functions of cancer cells
10:45 - 11:00	Jan Müller Combinatorial chimeric antigen receptors for the treatment of acute myeloid leukemia
11:00 - 11:15	Lukas Flatz Cancer immunoediting in melanoma patients receiving checkpoint inhibitors
11:15 - 11:30	<i>Break</i>
	Special Covid Session
<i>Chairs/Discussants:</i>	<i>Eva Untersmayr-Elsenhuber, Cezmi A. Akdis, Oral Alpan, Yadong Gao</i>
11:30 - 12:00	Derya Unutmaz Physiopathology of COVID-19
12:00 - 12:30	Marek Jutel EAACI Guidelines and COVID-19
12:30 - 13:00	Ioana Agache Asthma and COVID-19
13:00 - 13:15	Rory de Vries Phenotype and kinetics of SARS-CoV-2-specific T cells in COVID-19 patients with acute respiratory distress syndrome
13:15 - 13:30	<i>Break</i>
13:30 - 15:10	Workshops 5 & 6 (please see workshop program)
15:10 - 15:30	<i>Break</i>
Session 9	Mechanisms of disease development
<i>Chairs/Discussants:</i>	<i>Stephanie Ganal-Vonarburg, Hermelijn Smits, Marek Jutel, Willem van de Veen</i>
15:30 - 16:00	Cezmi A. Akdis The epithelial barrier hypothesis for the development of allergic and autoimmune diseases
16:00 - 16:30	Harald Renz Hygiene hypothesis and novel mechanisms of allergy pandemics
16:30 - 17:00	Mario Zaiss Intestinal epithelial barrier function in the pathogenesis and treatment of arthritis
17:00 - 17:15	Paul L. Bigliardi Neuropeptide system mediate epithelial adhesion and nerve-skin-immuno interaction in skin inflammation
17:15 - 17:30	Peter Ernst The absence of AP endonuclease 1 in colonic epithelial cells increases susceptibility to colitis induced by dextran sodium sulfate (DSS)
17:30 - 17:45	Akila Rekima Colostrum drives the development of successful anti-helminth immune defenses
18:00	Poster Sessions 7 - 9 (please see poster program)

Session 10	Metabolism and immune regulation
<i>Chairs/Discussants:</i>	<i>Milena Sokolowska, Claudia Traidl-Hoffmann, Christoph Schneider, Jürgen Schwarze</i>
08:30 - 09:00	Dirk Brenner Glutathione controls T regulatory cell metabolism to prevent autoimmunity
09:00 - 09:30	Carina Venter The role of dietary interventions for the prevention and treatment of allergy and asthma: any relevance for COVID-19?
09:30 - 09:45	Nicole Bertschi PPARgamma regulates IL-9 expression in human Th2 cells by promoting glycolysis
09:45 - 10:00	Johanna Baumgartner Impact of oxidized phospholipid signaling on macrophage differentiation and functionality in health and disease
10:00 - 10:15	Christoph Wilhelm A ketogenic diet suppresses pathogenic ILC2 responses in airway inflammation
10:15 - 10:30	<i>Break</i>
Session 11	Type 2 immunity and antibody response in Covid-19
<i>Chairs/Discussants:</i>	<i>Fatima Ferreira, Dirk Brenner, Jürgen Schwarze</i>
10:30 - 11:00	Bart Lambrecht Spontaneous protein crystallization as a driver of immunity
11:00 - 11:30	Claudia Traidl-Hoffmann Microbiome and type 2 inflammatory diseases
11:30 - 12:00	Rudolf Valenta Covid-19 and antibody response in convalescent serum
12:00 - 12:15	Alexander Eggel Accuracy of serological testing for SARS-CoV-2 antibodies: first results of a large mixed-method evaluation study
12:15 - 12:30	<i>Break</i>
12:30 - 14:10	Workshops 7 & 8 (<i>please see workshop program</i>)
14:10 - 14:30	<i>Break</i>
Session 12	Novel diagnosis and treatments of allergic diseases
<i>Chairs/Discussants:</i>	<i>Katja Baerenfaller, Iris Bellinghausen, Claudio Rhyner</i>
14:30 - 15:00	Laurence M. Morel Therapeutic targeting metabolism in autoimmunity
15:00 - 15:30	Mohamed Shamji IgG4 response in allergen tolerance
15:30 - 16:00	Kari Nadeau Allergies are systemic diseases: Molecular mechanisms of multimorbidities
16:00 - 16:15	Valerie Verhasselt Ovalbumin in breastmilk is associated with a decreased risk of IgE-mediated egg allergy in children
16:15 - 16:30	Marcus Peters Investigations on the immune regulatory mechanisms of synthetic partial structures from arabinogalactan
16:30 - 16:45	Andrzej Eljaszewicz Trained immunity and tolerance during allergen-specific immunotherapy
16:45 - 16:50	Cezmi A. Akdis Closing Address