

**Sunday, 17. August 2025***Pre-Course*

09:00 - 10:35

Hall K2

**Masterclass on translational immunology***Chair:* Winfried Pickl (Austria)*Chair:* Heimo Breiteneder (Austria)*Chair:* Nicole Boucheron (Austria)**Development of intranasal vaccines against respiratory viruses**

09:00 - 09:20

*Pre-Congress Speaker:* Jorge Kalil (Brazil)**Innovative approaches to facilitate tumor treatment**

09:20 - 09:40

*Pre-Congress Speaker:* Sergey Deyev (Russian Federation)**Dengue vaccines: Where we are now and where we should go**

09:40 - 10:00

*Pre-Congress Speaker:* Dil Afroze (India)**Immunotherapy in liver cancer**

10:00 - 10:20

*Pre-Congress Speaker:* Massoud Vosough (Iran)**Break**

10:20 - 10:35

*Pre-Course*

10:35 - 13:00

Hall K2

**Masterclass on translational immunology***Chair:* Inna Tulaeva (Vienna, Austria)*Chair:* Ursula Wiedermann (Austria)*Chair:* Pia Gattinger (Vienna, Austria)**Autoimmunity in Africa**

10:35 - 10:55

*Pre-Congress Speaker:* Elopia Sibanda (Zimbabwe)**IgE, molecular mimicry, and autoimmunity in allergic diseases**

10:55 - 11:15

*Pre-Congress Speaker:* Paolo Matricardi (Germany)**Mucosal adjuvants for vaccination**

11:15 - 11:35

*Pre-Congress Speaker:* Oliver Perez (Cuba)**Three-dimensional multiplex antibody detection and quantum dot labelling**

11:35 - 11:55

*Pre-Congress Speaker:* Igor Nabiev (France)**Discussion**

11:55 - 12:05

**Lunch break**

12:05 - 13:00

*Satellite Symposium*

13:00 - 15:30

Hall G

**DGFI Satellite Symposium: DGFI Study Groups Best of - Part A***Chair:* Anca Dorhoi (Germany)*Chair:* Stefanie Scheu (Germany)**Welcome**

13:00 - 13:15

*Chair:* Hansjörg Schild (Germany)**Pathogenetic insights from monogenic autoimmunity**

13:15 - 13:35

*Speaker:* Min Ae Lee-Kirsch (Germany)**Circuits in inflammatory memory**

13:35 - 13:55

*Speaker:* Triantafyllos Chavakis (Germany)**Harnessing Natural Killer cells against solid tumors**

<i>Speaker:</i> Adelheid Cerwenka (Germany)	13:55 - 14:15
<b>Inborn errors of innate immunity</b>	14:15 - 14:35
<i>Speaker:</i> Fabian Hauck (Germany)	
<b>Beneficial T cell - glial interactions in CNS inflammation</b>	14:35 - 14:55
<i>Speaker:</i> Stefan Bittner (Germany)	
<b>Break</b>	14:55 - 15:30
 <i>Pre-Course</i>	
13:00 - 14:35	Hall K2
<b>Masterclass on translational allergy</b>	
<i>Chair:</i> Mehrnaz Mesdaghi (Tehran, Iran)	
<i>Chair:</i> Thomas Eiwegger (Austria)	
<i>Chair:</i> Huey-Jy Huang (Austria)	
<b>Allergen molecules in Thailand</b>	13:00 - 13:20
<i>Pre-Congress Speaker:</i> Pongsakorn Tantilipikorn (Thailand)	
<b>Mapping of IgE sensitizations to allergen molecules by micro-array</b>	13:20 - 13:40
<i>Pre-Congress Speaker:</i> Alexander Karaulov (Russian Federation)	
<b>The world of ragweed allergens</b>	13:40 - 14:00
<i>Pre-Congress Speaker:</i> Carmen Bunu Panaitescu (Romania)	
<b>IgE sensitization to allergen molecules in Turkiye</b>	14:00 - 14:20
<i>Pre-Congress Speaker:</i> Bulent Enis Sekerel (Turkey)	
<b>Break</b>	14:20 - 14:35
 <i>Satellite Symposium</i>	
13:30 - 16:05	Hall K1
<b>ÖGAI Scientific Symposium - scientific sessions</b>	
<i>Chair:</i> Georg Stary (Austria)	
<i>Chair:</i> Nicole Boucheron (Austria)	
<b>Welcome words</b>	13:30 - 13:35
<i>Speaker:</i> Wilfried Ellmeier (Austria)	
<b>In memoriam Fritz Melchers</b>	13:35 - 13:50
<i>Speaker:</i> Georg Stingl (Austria)	
<b>Antibody therapy in 2025 - have patients with atopy reached the promised land?</b>	13:50 - 14:15
<i>Speaker:</i> Edda Fiebiger (United States)	
<b>When fields converge: hematology, cell therapy, and immunology in the age of CAR-T</b>	14:15 - 14:40
<i>Speaker:</i> Antonia Müller (Austria)	
<b>Novel immunometabolic targets to modulate human T cell-mediated inflammation</b>	14:40 - 15:05
<i>Speaker:</i> Stefano Angiari (Austria)	
<b>Immune players in atherosclerotic cardiovascular disease</b>	15:05 - 15:20
<i>Speaker:</i> Florentina Porsch (Austria)	
<b>Crosstalk between CD8+ T cells and systemic bile acid metabolism controls LCMV-induced immunopathology</b>	15:20 - 15:35
<i>Speaker:</i> Felix Richter (Austria)	
<b>Coffee break</b>	15:35 - 16:05

*Pre-Course*

14:35 - 16:30

Hall K2

**Masterclass on translational allergy***Chair:* Katarzyna Niespodziana (Vienna, Austria)*Chair:* Christine Hafner (Austria)*Chair:* Susanne Vrtala (Vienna, Austria)**How life style may influence allergic sensitization**

14:35 - 14:55

*Pre-Congress Speaker:* Lydia Lamara Mahammed (Algeria)**Man-made changes in molecular IgE sensitization profiles**

14:55 - 15:15

*Pre-Congress Speaker:* Victoria Garib (Austria)**Local IgE production**

15:15 - 15:35

*Pre-Congress Speaker:* Guillermo Docena (Argentina)**Recombinant allergen-based vaccination against mugwort pollen allergy**

15:35 - 15:55

*Pre-Congress Speaker:* Kaissar Tabynov (Kazakhstan)**Allergen-specific immunotherapy**

15:55 - 16:15

*Pre-Congress Speaker:* Mohamed Shamji (United Kingdom)**Discussion & Conclusion**

16:15 - 16:30

*Satellite Symposium*

15:30 - 17:30

Hall G

**DGfI Satellite Symposium: DGfI Study Groups Best of - Part B***Chair:* Alexander Scheffold (Germany)*Chair:* Dietmar Zehn (Germany)**Mechanisms regulating dendritic cell function in tumors**

15:30 - 15:50

*Speaker:* Jan Böttcher (Germany)**Metabolic checkpoints controlling onset and resolution of inflammation**

15:50 - 16:10

*Speaker:* Gerhard Krönke (Germany)**Breakthrough immunotherapies: Clinical experience and molecular mechanisms**

16:10 - 16:30

*Speaker:* Ricardo Grieshaber-Bouyer (Germany)**cROSSing barriers: Metabolism meets T cell function**

16:30 - 16:50

*Speaker:* Dirk Brenner (Luxembourg)**Sleep and the immune system**

16:50 - 17:10

*Speaker:* Luciana Besedovsky (Germany)**Discussion**

17:10 - 17:30

*Satellite Symposium*

16:05 - 16:35

Hall K1

**ÖGAI Scientific Symposium - round table discussion***Chair:* Katja Knapp (Austria)*Chair:* Wilfried Ellmeier (Austria)**Career perspectives in Austria and abroad**

16:05 - 16:35

*Speaker:* Stefano Angiari (Austria)*Speaker:* Edda Fiebiger (United States)*Speaker:* Antonia Müller (Austria)*Speaker:* Florentina Porsch (Austria)*Speaker:* Felix Richter (Austria)*Speaker:* Marta Rizzi (Austria)

*Networking Event*

16:30 - 21:00

Offsite

**yEFIS-NGI-JC Scavenger hunt and Get-Together**

*Satellite Symposium*

16:35 - 17:00

Hall K1

**ÖGAI Satellite Symposium - prize ceremony**

*Chair:* Wilfried Ellmeier (Austria)

*Chair:* Nicole Boucheron (Austria)

*Upon Invitation*

17:00 - 18:15

Hall K1

**ÖGAI General Assembly**

*Upon Invitation*

17:30 - 18:30

Hall G

**DGfI General Members' Assembly**

*Networking Event*

18:30 - 20:00

Hall G

**DGfI and ÖGAI Get-together**

**Monday, 18. August 2025***Upon Invitation*

08:00 - 10:00

Hall N

**75th IUIS Annual Council Meeting***Satellite Symposium*

08:30 - 09:30

Hall F1

**European Research Council: Funding schemes for researchers in Europe & beyond (hosted by the Early Career Committee)***Chair:* Anne Maria Hahn (Melbourne, Australia)*Speaker:* Nadia El Mjiyad (Belgium)*Speaker:* Isabelle Meyts (Belgium)*Speaker:* Luke O'Neill (Ireland)*Satellite Symposium*

08:30 - 12:30

Hall G

**DGFI Satellite Symposium: Highlights of German Immunology****HIV-1 manipulates CD96 on CD4+ T Cells to subvert antiviral immunity**

08:30 - 08:45

*Oral Abstract Presenter:* Rabea Burkhard (Germany)**Severity-specific gene signatures stratify patients with extrapulmonary tuberculosis**

08:45 - 09:00

*Oral Abstract Presenter:* Kilian Dahm (Germany)**Single-cell analysis of female ME/CFS patients identifies stratifying immune signatures**

09:00 - 09:15

*Oral Abstract Presenter:* Francesco Elli (Germany)**Microbial and microenvironmental cues drive postnatal macrophage specification in the dermis**

09:15 - 09:30

*Poster Presenter:* Nisreen Ghanem (Germany)**A conditional CRISPR/Cas9-mediated knockout approach of transmembrane adaptor proteins SIT and TRIM in CD4+ T cell-mediated HDM-induced allergic asthma and CD8+ T cell-mediated tumor immunity**

09:30 - 09:45

*Oral Abstract Presenter:* Nouria Jantz-Naeem (Germany)**Cellular heterogeneity controls inflammation in auto-immunity**

09:45 - 10:00

*Oral Abstract Presenter:* Felix Weiss (Germany)**Coffee break**

10:00 - 10:30

**Welcome Note**

10:30 - 10:35

*Speaker:* Hansjörg Schild (Germany)**In Memoriam Fritz Melchers**

10:35 - 10:45

*Speaker:* Thomas Winkler (Germany)**Fritz-und-Ursula-Melchers Award**

10:45 - 11:00

**Otto-Westphal Award**

11:00 - 11:15

**Hans-Hench Award**

11:15 - 11:30

**Herbert-Fischer Award**

11:30 - 11:45

**Georges-Köhler Award**

11:45 - 12:00

<b>Novartis-Preis Award</b>	12:00 - 12:20
<b>Closing</b>	12:20 - 12:30
<i>Speaker: Hansjörg Schild (Germany)</i>	
<b>Satellite Symposium</b>	
08:45 - 10:30	Hall F2
<b>Immune profiling in B cell biology</b>	
<i>Chair: Ola Grimsholm (Austria)</i>	
<i>Chair: Rajagopal Murugan (Netherlands)</i>	
<b>The role of memory B cells in naïve immune responses</b>	08:45 - 09:15
<i>Speaker: Hedda Wardemann (Germany)</i>	
<b>Impact of naive B cell repertoire features on virus neutralizing responses</b>	09:15 - 09:45
<i>Speaker: Gunilla Karlsson Hedestam (Sweden)</i>	
<b>The function of B cell marker proteins including CD20</b>	09:45 - 10:15
<i>Speaker: Michael Reth (Germany)</i>	
<b>Sponsor talks</b>	10:15 - 10:30
<b>Satellite Symposium</b>	
09:00 - 10:30	Hall E2
<b>APAAACI Symposium</b>	
<i>Chair: Ruby Pawankar (Tokyo, Japan)</i>	
<i>Chair: Rudolf Valenta (Vienna, Austria)</i>	
<b>The future of allergen micro-arrays for allergy diagnosis</b>	09:00 - 09:25
<i>Speaker: Huey-Jy Huang (Austria)</i>	
<b>Blomia tropicalis and Dermatophagoides pteronyssinus, similar but different major allergen sources: From allergen molecules to diagnosis and specific immunotherapy</b>	09:25 - 09:50
<i>Speaker: Nishelle Dsouza (Austria)</i>	
<b>Presentation by Ruby Pawankar</b>	09:50 - 10:15
<i>Speaker: Ruby Pawankar (Japan)</i>	
<b>Satellite Symposium</b>	
10:00 - 12:30	Hall F1
<b>Explore career paths &amp; network with colleagues across different industries</b>	
<i>Speaker: Ross McGlenon (United Kingdom)</i>	
<i>Speaker: Robin Stamm (Germany)</i>	
<i>Speaker: Anna Baranska (Bergisch Gladbach, Germany)</i>	
<i>Speaker: Lorenz Jahn (Bergisch Gladbach, Germany)</i>	
<i>Speaker: Brenda Raud (Netherlands)</i>	
<i>Speaker: Jason Goldsmith (United States)</i>	
<i>Speaker: Nadja Bakocevic (Germany)</i>	
<i>Speaker: Zsofia Szok (Austria)</i>	
<i>Speaker: Nadia El Mjyad (Belgium)</i>	
<i>Speaker: Anna-Dorothea Gorki (Austria)</i>	
<i>Speaker: Christina Koesters (Austria)</i>	
<b>Upon Invitation</b>	
10:30 - 12:30	Hall E1
<b>General Assembly IUIS</b>	

*Satellite Symposium*

11:00 - 13:00

Hall E2

**Joint Symposium of the Academy of Sciences of the Republic of Uzbekistan and the Austrian Academy of Sciences***Chair:* Shahlo Turdikulova (Uzbekistan)**Welcome speech from the Academy of Sciences of the Republic of Uzbekistan**

11:00 - 11:05

*Speaker:* Shahlo Turdikulova (Uzbekistan)**Welcome speech from the Austrian Academy of Sciences**

11:05 - 11:10

*Speaker:* Georg Stingl (Austria)**In the search of specificity: new treatment approaches for autoimmune diseases**

11:10 - 11:30

*Speaker:* Georg Stingl (Austria)**Targeting VSOR/VRAC in thymocytes results in suppression of volume regulation and proliferation arrest**

11:30 - 11:50

*Speaker:* Ravshan Sabirov (Uzbekistan)**Development of vaccines against infectious diseases: Lessons learned from COVID-19**

11:50 - 12:10

*Speaker:* Rudolf Valenta (Austria)**Global allergy trends: how climate, urbanization, and traditions influence sensitization profiles**

12:10 - 12:30

*Speaker:* Victoria Garib (Austria)**Identification of risk markers for the development of type 2 diabetes and associated cardiovascular diseases**

12:30 - 12:50

*Speaker:* Alisher Abdullaev (Uzbekistan)**Q&A Session**

12:50 - 13:00

*Satellite Symposium*

11:00 - 12:30

Hall F2

**EAACI Symposium****Biomarker and adaptive trial-driven approaches driving innovation in allergen immunotherapy**

11:00 - 11:20

*Speaker:* Mohamed Shamji (United Kingdom)**Next-generation of food allergy diagnostics: bridging traditional and molecular approaches**

11:20 - 11:40

*Speaker:* Alexandra Santos (United Kingdom)**Use of nanotechnology for the management of allergic diseases**

11:40 - 12:00

*Speaker:* Maria Torres (Spain)*New to IUIS*

12:45 - 13:30

Hall F1

**Orientation Session for Newcomers***Ceremony*

14:00 - 14:30

Hall A

**Opening Ceremony***Speaker:* Miriam Merad (United States)*Speaker:* Rita Carsetti (Italy)*Speaker:* Rudolf Valenta (Vienna, Austria)*Speaker:* Wilfried Ellmeier (Austria)*Speaker:* Barbara Bohle (Austria)

*Keynote Lecture*

14:30 - 15:00

Hall A

**Conversion of disease-mediating T cells into Tregs for treatment of immunological diseases**

Chair: Federica Sallusto (Switzerland)

**Conversion of disease-mediating T cells into Tregs for treatment of immunological diseases**

14:30 - 15:00

Keynote Speaker: Shimon Sakaguchi (Japan)

*Rising Star*

15:00 - 15:45

Hall A

**Rising stars**

Chair: Yasmine Belkaid (France)

**Maternal obesity disrupts breastmilk immunity**

15:00 - 15:10

Rising Star Awardee: Marion Brunck (Mexico)

**The interferon nexus: sex differences, autoimmunity, and cardiovascular disease**

15:10 - 15:20

Rising Star Awardee: George Robinson (United Kingdom)

**Fat on the frontline: fuelling the immune response to chronic infection**

15:20 - 15:30

Rising Star Awardee: Matthew Sinton (United Kingdom)

**Discussion**

15:30 - 15:45

*Keynote Lecture*

15:45 - 16:15

Hall A

**Immune control of maternal physiology**

Chair: Miriam Merad (United States)

**Immune control of maternal physiology**

15:45 - 16:15

Keynote Speaker: Yasmine Belkaid (France)

*Break*

16:15 - 16:45

Exhibition Hall

**Coffee Break (Exhibition Hall)***Plenary Lecture*

16:45 - 18:15

Hall E1

**Immune regulation**

Chair: Meinrad Busslinger (Austria)

Chair: Marta Rizzi (Austria)

**Presentation by Federica Sallusto**

16:45 - 17:15

Plenary Speaker: Federica Sallusto (Switzerland)

**Systemic and mucosal immunity: separate roles and integration strategies**

17:15 - 17:45

Plenary Speaker: Rita Carsetti (Italy)

**Transcriptional control of B cell development and function**

17:45 - 18:15

Plenary Speaker: Meinrad Busslinger (Austria)

*Plenary Lecture*

16:45 - 18:15

Hall E2

**Macrophage ontogeny and function**

Chair: Florent Ginhoux (France)

Chair: Wolfgang Weninger (Austria)

<b>Monocyte-derived tissue macrophages</b>	16:45 - 17:15
<i>Plenary Speaker:</i> Steffen Jung (Israel)	
<b>Determinants of pulmonary macrophage homeostasis</b>	17:15 - 17:45
<i>Plenary Speaker:</i> Sylvia Knapp (Austria)	
<b>Embracing tumor macrophage heterogeneity</b>	17:45 - 18:15
<i>Plenary Speaker:</i> Florent Ginhoux (France)	
 <i>Plenary Lecture</i>	
16:45 - 18:15	Hall F1
<b>Treatment options for allergy and autoimmune diseases</b>	
<i>Chair:</i> Barbara Bohle (Austria)	
<i>Chair:</i> Wilfried Ellmeier (Austria)	
<b>Can farm children inform us about novel treatment options for asthma and allergies?</b>	16:45 - 17:30
<i>Plenary Speaker:</i> Erika von Mutius (Germany)	
<b>Resetting autoimmunity in immune-mediated inflammatory diseases</b>	17:30 - 18:15
<i>Plenary Speaker:</i> Gerhard Krönke (Germany)	
 <i>Plenary Lecture</i>	
16:45 - 18:15	Hall F2
<b>Artificial intelligence and systems immunology</b>	
<i>Chair:</i> Christoph Bock (Austria)	
<b>Programmed Cells? Epigenetics and Cell Engineering for Immunity and Cancer</b>	16:45 - 17:30
<i>Plenary Speaker:</i> Christoph Bock (Austria)	
<b>Cellular drivers and molecular checkpoints of intestinal type 2 immunity</b>	17:30 - 18:15
<i>Plenary Speaker:</i> Xiaoyu Hu (China)	
 <i>Networking Event</i>	
18:15 - 19:15	Exhibition Hall
<b>Networking reception</b>	

**Tuesday, 19. August 2025***Upon Invitation*

08:00 - 10:00

Room 0.31-32

**Committee Chairs Meeting - Upon Invitation***Symposium*

08:30 - 10:00

Hall A

**Epigenetic regulation of immunity***Chair:* Jochen Huehn (Germany)*Chair:* Ubaid Ullah Kalim (Turku, Finland)**Cellular players and molecular factors controlling adipose tissue regulatory T cells**

08:30 - 08:55

*Symposium Speaker:* Jochen Huehn (Germany)**The role of histone deacetylases in the regulation of T cell-mediated immunity**

08:55 - 09:20

*Symposium Speaker:* Wilfried Ellmeier (Austria)**Epigenetic pathways regulating responses and resistance to immune-based therapies**

09:20 - 09:45

*Symposium Speaker:* Sangeeta Goswami (United States)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall E1

**Mechanistic insights into cancer immunotherapy***Chair:* Koichi Sasaki (London, United Kingdom)*Chair:* Hao Wu (Würzburg, Germany)**Harnessing the immune system to prevent Lynch syndrome-associated cancers**

08:30 - 08:55

*Symposium Speaker:* Jolanda de Vries (Netherlands)**Myeloid cells and cancer immunotherapy**

08:55 - 09:20

*Symposium Speaker:* Maria Sibilia (Austria)**Depleting antibodies in cancer therapies**

09:20 - 09:45

*Symposium Speaker:* Eric Vivier (France)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall E2

**Allergy***Chair:* Marianne van Hage (Sweden)*Chair:* Katherina Siewert (Berlin, Germany)**Requirements for allergen-specific antibody protection from pollen-related food allergy**

08:30 - 08:55

*Symposium Speaker:* Barbara Bohle (Austria)**Evolution of allergy. From childhood to adult**

08:55 - 09:20

*Symposium Speaker:* Marianne van Hage (Sweden)**Targeting IgE in allergy**

09:20 - 09:45

*Symposium Speaker:* Alexander Eggel (Switzerland)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall F1

**Cytokine regulation of immune cells***Chair:* María Julia Lamberti (Río Cuarto, Argentina)*Chair:* Thi Hong Van Doan (Tsukuba, Japan)**Selective inhibition of proinflammatory cytokines produced by distinct cell types as a new paradigm for therapy**

08:30 - 08:55

*Symposium Speaker:* Sergei Nedospasov (Russian Federation)**Short title: Jusvinza: a peptide derived from HSP60**

08:55 - 09:20

**Full title: Targeting Immune Tolerance in Autoimmune Diseases – An Altered Peptide Ligand-Based Approach for Rheumatoid Arthritis***Symposium Speaker:* María del Carmen Dominguez Horta (Cuba)**Influence of cutaneous cytokines on their symbionts under physiological and pathological conditions**

09:20 - 09:45

*Symposium Speaker:* Georg Stingl (Austria)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall F2

**Infectious diseases***Chair:* Theresa Rossouw (South Africa)*Chair:* Mohammad Adeel Zafar (Boston, United States)**Invasion and evasion: the stealth of *Listeria***

08:30 - 08:55

*Symposium Speaker:* Marc Lecuit (France)**HIV-associated drug resistance and systemic immune activation**

08:55 - 09:20

*Symposium Speaker:* Theresa Rossouw (South Africa)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall M

**Vaccines and immunotherapies for infectious and tumor diseases (ALACI)***Chair:* Guillermo Docena (Argentina)*Chair:* Oliver Perez (Cuba)**Modulation of double-negative T cell responses and successful therapeutic intervention in human Chagas disease**

08:30 - 08:55

*Society Symposium Speaker:* Walderez Dutra (Brazil)**Chimeric trivalent antigen and cyclic-di-AMP as prophylactic and therapeutic vaccines against Chagas' disease**

08:55 - 09:20

*Society Symposium Speaker:* Emilio Malchiodi (Argentina)**Unveiling the interplay between circulating and tissue-resident T cells underlying effective immunity against solid tumor**

09:20 - 09:45

*Society Symposium Speaker:* Alvaro Lladser (Chile)*Symposium*

08:30 - 10:00

Hall N

**Mechanisms of neurodegenerative diseases***Chair:* K David Raja (New Delhi, India)*Chair:* Musa Khaitov (Russian Federation)**Targeting multiple sclerosis**

08:30 - 08:55

*Symposium Speaker:* Alexander Gabibov (Russian Federation)

<b>Innate immunity in neurodegenerative disease: mechanisms and therapeutic opportunities</b>	08:55 - 09:20
<i>Symposium Speaker:</i> Marco Colonna (United States)	
<b>Microglia cell fate in Alzheimer's disease</b>	09:20 - 09:45
<i>Symposium Speaker:</i> Michael T. Heneka (Luxembourg)	
<b>Panel discussion</b>	09:45 - 10:00
 <i>Symposium</i>	
08:30 - 10:00	Hall L1 & L2
<b>B cell-mediated immunity - In memoriam Fritz Melchers</b>	
<i>Chair:</i> Mubeccel Akdis (Switzerland)	
<i>Chair:</i> Eva Piano Mortari (Roma, Italy)	
<b>The role of allergen-specific B cells on the developments of immune tolerance to allergens</b>	08:30 - 08:55
<i>Symposium Speaker:</i> Mubeccel Akdis (Switzerland)	
<b>Immunoglobulin germline gene variation in 25 global human populations</b>	08:55 - 09:20
<i>Symposium Speaker:</i> Gunilla Karlsson Hedestam (Sweden)	
<b>Human B cell development and function</b>	09:20 - 09:45
<i>Symposium Speaker:</i> Marta Rizzi (Austria)	
<b>Panel discussion</b>	09:45 - 10:00
 <i>Symposium</i>	
08:30 - 10:00	Hall L3
<b>Mucosal vaccines against respiratory infections (VAC)</b>	
<i>Chair:</i> Ursula Wiedermann (Austria)	
<b>Next generation nasal vaccine against pertussis</b>	08:30 - 08:55
<i>Symposium Speaker:</i> Nathalie Mielcarek (France)	
<b>Precision mucosal immunization through nasal sIgA assessment and a timely nasal vaccination</b>	08:55 - 09:20
<i>Symposium Speaker:</i> Ling Chen (China)	
<b>Mucosal vaccines against respiratory viruses</b>	09:20 - 09:45
<i>Symposium Speaker:</i> Florian Krammer (Austria)	
 <i>Satellite Symposium</i>	
08:30 - 10:00	Room 0.49-50
<b>Via immune repertoire prism</b>	
<i>Chair:</i> Paul Thomas (United States)	
<i>Chair:</i> Dmitry Chudakov (Czech Republic)	
<b>Decoding the immune repertoire</b>	08:30 - 08:50
<i>Speaker:</i> Thierry Mora (France)	
<b>Decoding the T cell receptor specificity code</b>	08:50 - 09:10
<i>Speaker:</i> Paul Thomas (United States)	
<b>Immunoinformatics mapping of the landscape of T-cell specificity and phenotype in synovial fluid of arthritic diseases</b>	09:10 - 09:30
<i>Speaker:</i> Vincent Van Deuren (Belgium)	
<b>Hunting for autoimmune T cell clones</b>	09:30 - 09:50
<i>Speaker:</i> Dmitry Chudakov (Czech Republic)	

**Discussion**

09:50 - 10:00

*Break*

10:00 - 10:30

Exhibition Hall

**Coffee Break (Exhibition Hall)***Abstract Session*

10:30 - 12:00

Hall A

**Regulation of T cell function**

Chair: Nicole Boucheron (Austria)

Chair: Johanna Strobl (Austria)

**Histone deacetylases 1 and 2-mediated control of intestinal CD4+ T cell immunity during bacterial infection**

10:30 - 10:38

Oral Abstract Presenter: Phuc Huu Tran (Austria)

**Morphological profiling of T cells predicts clinical response to VLA-4-targeting natalizumab therapy in patients with multiple sclerosis**

10:38 - 10:46

Oral Abstract Presenter: Beatriz Chaves (France)

**Bystander Th17 immunity and its functional impact on fungal infections**

10:46 - 10:54

Oral Abstract Presenter: Shweta Venugopal Sabu (Switzerland)

**Pro-inflammatory secretome from intestinal epithelium recruits regulatory T cells for barrier defence**

10:54 - 11:02

Oral Abstract Presenter: Luisa Barleben (Germany)

**Single-cell profiling of influenza-specific T cells from paired blood and lower airway samples reveals subclonal segregation across compartments during acute human infection**

11:02 - 11:10

Oral Abstract Presenter: Jeremy Chase Crawford (United States)

**Immune dysregulation in Large Vessel Vasculitis: the emerging role of VISTA and ICOSL**

11:10 - 11:18

Oral Abstract Presenter: Martina Bonacini (Italy)

**CD8<sup>+</sup> γδ T Cells Drive Inflammatory and Cytotoxic Responses in Chronic Chagas Cardiomyopathy and Are Modulated by Pentoxifylline**

11:18 - 11:26

Oral Abstract Presenter: Pedro Lucinda (Brazil)

**The Impact of Disrupting the BTNL- γδ T cell Axis, with implications for Crohn's Disease**

11:26 - 11:34

Oral Abstract Presenter: Ambra Natalini (United Kingdom)

**Dissecting MAIT Antigen 5-OP-RU Genesis from Mammalian Small Molecules**

11:34 - 11:42

Oral Abstract Presenter: Rangsima Pongvattanaporn (Australia)

*Abstract Session*

10:30 - 12:00

Hall E1

**Cancer immunotherapy part I**

Chair: Lee-Hwa Tai (Sherbrooke, Canada)

Chair: Dietmar Herndler-Brandstetter (Vienna, Austria)

**Siglec-1/CD169+ macrophages orchestrate immune reaction and matrix deposition in pancreatic cancer**

10:30 - 10:38

Oral Abstract Presenter: Ana Hennino (France)

**Characterizing immune evasion of metastatic osteosarcoma in a newly generated genetically-engineered mouse model**

10:38 - 10:46

Oral Abstract Presenter: Stefanie Stolzlechner (Austria)

**Hepatic Th2 loss in liver metastasis: a feedback loop enhancing metastatic progression**

10:46 - 10:54

Oral Abstract Presenter: Jingya Wang (Hong Kong)

**PGK1-mediated ligand-independent PD-1 Activation Confers Resistance to PD-1 Blockade Therapy**

10:54 - 11:02

Oral Abstract Presenter: Ziheng Zhao (China)

**Predictive imaging of the immunotherapy and radioimmunotherapy response by immunoPET via a new target (CD103) and innovative protein formats in preclinical NSCLC**

11:02 - 11:10

Oral Abstract Presenter: Léa Zimmermann (France)

**Peripheral and tumor immune signatures predict response to immunotherapy in advanced HER2-negative breast cancer**

11:10 - 11:18

Oral Abstract Presenter: Sabrina Dhooge (Argentina)

**Dendritic Cell-Based Cancer Immunotherapy: Harnessing the TLR7-mROS-IL-12 Axis to Boost NK Cell Activation**

11:18 - 11:26

Oral Abstract Presenter: Sumit Kumar Hira (India)

**CXCR3 mediates tumor-specific T cell expansion following synergistic combination of T cell therapy and vaccines for immunotherapy of solid tumors**

11:26 - 11:34

Oral Abstract Presenter: Vinnycius Pereira Almeida (United Kingdom)

**Enhanced survival and reduced toxicity with intravenously delivered tumour-targeted IL15 superagonist in solid tumour models**

11:34 - 11:42

Oral Abstract Presenter: Pooja Kaur (United Kingdom)

#### Abstract Session

10:30 - 12:00

Hall E2

#### Skin and barrier immunity

Chair: Ekaterina Gubernatorova (Moscow, Russian Federation)

Chair: Susan Westfall (Canada)

**Mast Cell Chymase Cleaves Galectin-3 and Compromises Barrier Integrity in Ulcerative Colitis**

10:30 - 10:38

Oral Abstract Presenter: Afshin Derakhshani (Canada)

**Blockade of cannabinoid 1 receptor in infiltrating macrophages alleviates skin inflammation in preclinical psoriasis models**

10:38 - 10:46

Oral Abstract Presenter: Hongseo Choi (Korea, Republic of)

**Epidermal Blimp-1 deficiency-associated barrier dysfunction and microbial dysbiosis cause atopic dermatitis-like skin inflammation**

10:46 - 10:54

Oral Abstract Presenter: Kuo-I Lin (Taiwan)

**Guarding the Gates: the hair canal prevents pathogenic dysbiosis of the skin**

10:54 - 11:02

Oral Abstract Presenter: Lena Artner-Gent (Austria)

**Differential impact of sphingomyelinase D isoforms on human keratinocytes: mechanisms of inflammation and wound healing in *Loxosceles* envenomation**

11:02 - 11:10

Oral Abstract Presenter: Bruna Pinto (Brazil)

**Insights into granuloma resolution upon mTOR inhibition in sarcoidosis patients**

11:10 - 11:18

Oral Abstract Presenter: Kveta Brazdilova (Austria)

**Topical inhibition of 11 $\beta$ -HSD1 enhances cutaneous wound healing**

11:18 - 11:26

**in diabetic mice by abrogating local glucocorticoid reactivation***Oral Abstract Presenter:* Vanderlei da Silva Fraga-Junior (Brazil)**The immunomodulator sCD83 accelerates wound healing in a murine pressure ulcer model by promoting tissue-repair macrophages**

11:26 - 11:34

*Oral Abstract Presenter:* Fabian Stritt (Germany)*Abstract Session*

10:30 - 12:00

Hall F1

**Immunity to bacteria***Chair:* Irma Schabussova (Vienna, Austria)*Chair:* Ketema Abdissa Merga (Jena, Germany)**Monocyte transcriptome signatures of inflammation and enhanced neutrophil recruitment characterize immunopathology in the blood of TB patients**

10:30 - 10:38

*Oral Abstract Presenter:* Marc Jacobsen (Germany)**The epithelial and post-epithelial phase of shigellosis**

10:38 - 10:46

*Oral Abstract Presenter:* Niti B Jadeja (United States)**Design and evaluation of novel mTOR-inhibiting peptides for host-directed therapy in Tuberculosis**

10:46 - 10:54

*Oral Abstract Presenter:* Swati Singh (India)**Bacterial extracellular vesicles: Cargo composition, host communication, and promise in allergy treatment**

10:54 - 11:02

*Oral Abstract Presenter:* Irma Schabussova (Austria)**Development of a robust and standardized progression cascade for compounds targeting host-pathogen interactions in tuberculosis within the ERA4TB consortium**

11:02 - 11:10

*Oral Abstract Presenter:* Eik Hoffmann (France)**Preclinical Immune Responses of the *Neisseria meningitidis* Outer Membrane Vesicle Vaccine**

11:10 - 11:18

*Oral Abstract Presenter:* Zeynep Arzum (Turkey)**Unlocking Host Targets: Omics-Driven Insights into *Leptospira* Pathogenesis**

11:18 - 11:26

*Oral Abstract Presenter:* Jusail CP (India)**Multi-omics techniques decipher 3 distinct immunotypes of extrapulmonary tuberculosis**

11:26 - 11:34

*Oral Abstract Presenter:* Sebastian Theobald (Germany)**Impact of neutrophil extracellular vesicles on renal damage associated with the Hemolytic Uremic Syndrome**

11:34 - 11:42

*Oral Abstract Presenter:* Analia Trevani (Argentina)**Detection of *Mycobacterium tuberculosis* antigens in urinary extracellular vesicles by Immuno-Real Time Polymerase Chain Reaction improves sensitivity of pulmonary tuberculosis diagnosis**

11:42 - 11:50

*Oral Abstract Presenter:* Sadhna Sharma (India)**Proteomic profiling of extracellular vesicles in the plasma of individuals with latent or active tuberculosis**

11:50 - 11:58

*Oral Abstract Presenter:* Abraham Eliud Sta.Maria Peregrino (Mexico)

*Abstract Session*

10:30 - 12:00

Hall F2

**Immunity to viruses part I**

Chair: Wilfried Posch (Innsbruck, Austria)

Chair: M. Zeeshan Chaudhry (Brisbane, Australia)

**Interferon signaling in non-hematopoietic cells - but not in hematopoietic immune cells - is essential for host survival upon systemic viral infection**

10:30 - 10:38

Oral Abstract Presenter: Mustapha Jaiteh (Austria)

**High expression of oleoyl-ACP hydrolase underpins life-threatening respiratory viral diseases**

10:38 - 10:46

Oral Abstract Presenter: Xiaoxiao Jia (China)

**Ammonia and the gut-brain axis during viral infection**

10:46 - 10:54

Oral Abstract Presenter: Henrique Colaco (Austria)

**Hyperglycemia-triggered metabolic adaptation impairs anti-viral Th1 responses in Type 2 Diabetes**

10:54 - 11:02

Oral Abstract Presenter: Guang Sheng, Heidi Ling (Hong Kong)

**Acute-phase determinants of post-acute Chikungunya syndrome: Immune dysregulation, viral load and sex disparities**

11:02 - 11:10

Oral Abstract Presenter: Viviane Boaventura (Brazil)

**Seroconversion after vaccinating VZV seronegative immunocompromised adults with a recombinant herpes zoster vaccine**

11:10 - 11:18

Oral Abstract Presenter: Angelika Wagner (Austria)

**Sex-bias in mitochondrial antiviral signaling protein (MAVS)-dependent baseline liver inflammation drives divergent disease outcomes in a mouse model of viral hemorrhagic fever**

11:18 - 11:26

Oral Abstract Presenter: Deepashri Rao (United States)

**Dissecting immune cell states in CMV-infected newborns through single-cell sequencing**

11:26 - 11:34

Oral Abstract Presenter: Altea Gjurgjaj (Italy)

**The influenza virus hemagglutinin (HA): a novel functional ligand for the immunosuppressive receptor LAG-3**

11:34 - 11:42

Oral Abstract Presenter: Dina Khateeb (Israel)

**Respiratory syncytial virus immunity in solid transplant recipients compared to healthy controls**

11:42 - 11:50

Oral Abstract Presenter: Amina Abu-Omar (Germany)

*Abstract Session*

10:30 - 12:00

Hall M

**T cell responses in cancer**

Chair: Ichiro Taniuchi (Yokohama, Japan)

Chair: Feng Wang (Shanghai, China)

**Leupaxin deficiency enhances CD8 + T cell-mediated tumor suppression**

10:30 - 10:38

Oral Abstract Presenter: Nafiseh Ghobakhloo (Canada)

**GARP-TGF $\beta$ 1 on regulatory T cells licenses immune exhaustion in cancer**

10:38 - 10:46

Oral Abstract Presenter: Qiao Gou (Japan)

**Non-redundant roles of CD73 and adenosine in the differentiation of exhausted CD8+ T cell populations in the tumor niche**

10:46 - 10:54

Oral Abstract Presenter: Daniela Sauma (Chile)

<b>Cancer <math>\beta</math>-TrCP drives CD8<math>^{+}</math> T cell exhaustion in human non-small-cell lung cancer</b>	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Sidong Xiong (China)	
<b>Mitochondrial Transfer in Oral Cancer impairs CD4<math>^{+}</math> T cell responses by promoting cell exhaustion via hypoxic stress</b>	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Estefania Nova-Lamperti (Chile)	
<b>Commandeering T cell fates and adoptive T cell therapeutic outcomes in solid tumors using cytokines and de novo engineered mimetics</b>	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Vandana Kalia (United States)	
<b>The eATP receptor P2RX7 promotes optimal progenitor exhausted CD8<math>^{+}</math> T cell responses to anti-PD1 blockade</b>	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Henrique Borges da Silva (United States)	
<b>KLF2 maintains lineage fidelity and suppresses CD8 T cell exhaustion</b>	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Nikhil Joshi (United States)	
<b>Fueling Immune Checkpoint Therapy with Asparaginase to Boost T Cell Activation in Nasopharyngeal Carcinoma</b>	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Huang-Yu Yang (Taiwan)	
<b>Overexpressing hepcidin in T lymphocytes: a new weapon to fight cancer?</b>	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Manel Beldjilali (France)	
<i>Abstract Session</i>	
10:30 - 12:00	Hall N
<b>Innate immunity</b>	
<i>Chair:</i> Sylvia Knapp (Vienna, Austria)	
<i>Chair:</i> Anirban Sengupta (Stockholm County, Sweden)	
<b>Novel gatekeeper in post-septic immune responses: myeloid-derived suppressor cells (MDSCs)</b>	10:30 - 10:38
<i>Oral Abstract Presenter:</i> Rawan Kawach (Germany)	
<b>UFMylation of NLRP3 Prevents Its Autophagic Degradation and Facilitates Inflammasome Activation</b>	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Kun Chen (China)	
<b>The BiST of Burden: harnessing biased STING agonists to enhance the resolution of inflammation and limit tissue fibrosis</b>	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Amiram Ariel (Israel)	
<b>Histone demethylase KDM4B epigenetically controls NLRP3 expression to enhance inflammatory responses</b>	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Ying Qin (China)	
<b>Clustering of NLRP3 on diverse cellular scaffolds is a key step toward inflammasome formation</b>	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Iva Hafner Bratkovič (Slovenia)	
<b>LRRK2 regulates the formation of neutrophil extracellular traps against <i>Candida albicans</i> in mucosal infection</b>	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Kai-Quan Leong (Taiwan)	
<b>Mechanical reprogramming of neutrophils sustains pulmonary homeostasis</b>	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Jin Wang (China)	
<b>Pyrin inflammasome activation leads to an IL-18-driven IFN-<math>\gamma</math> response, in a mevalonate kinase deficiency model</b>	11:26 - 11:34

*Oral Abstract Presenter:* Niels van Heusden (Netherlands)

**Cytokine-Primed Fibroblast-like Synoviocyte-Immune cell Interactions Promote Immune Activation and Synovial Pathotype Development in Rheumatoid Arthritis**

11:34 - 11:42

*Oral Abstract Presenter:* Mirjam Dellinger (Austria)

**Investigating the impact of sepsis on bone marrow using iPSC-derived human bone marrow organoids (BMOs)**

11:42 - 11:50

*Oral Abstract Presenter:* Michal Santocki (Czech Republic)

*Abstract Session*

10:30 - 12:00

Hall L1 & L2

**Immune regulation: DC and metabolism**

*Chair:* Johannes Stöckl (Austria)

*Chair:* Sue Tsai (Edmonton, Canada)

**Cross-presentation of tumor antigen from complex environments**

10:30 - 10:38

*Oral Abstract Presenter:* Tori Schuster (United States)

**BATF induced DC-SCRIPT dampens IFN I production in plasmacytoid dendritic cells**

10:38 - 10:46

*Oral Abstract Presenter:* Shafaqat Ali (Germany)

**Monocyte-derived LysoDCs mediate distinct Th17 immunity in Peyer's patches driven by segmented filamentous bacteria**

10:46 - 10:54

*Oral Abstract Presenter:* Renan O. Corrêa (France)

**TRIM33 Plays a Critical Role in Regulating Dendritic Cell Differentiation and Homeostasis by Modulating *Irf8* and *Bcl2l11* Transcription**

10:54 - 11:02

*Oral Abstract Presenter:* Li Wu (China)

**Dysregulation of the phosphoinositide 3-kinase signaling pathway can drive autoimmunity via metabolic reprogramming of B cells: role of hexokinase 2**

11:02 - 11:10

*Oral Abstract Presenter:* Aaron Marshall (Canada)

**HIF2α signaling in myeloid leukocytes compromises the host's ability to control *Mycobacterium tuberculosis* infection**

11:10 - 11:18

*Oral Abstract Presenter:* Joseana de Oliveira (Brazil)

**Metabolic fitness shapes humoral immunity towards extrafollicular memory B cells in severely obese individuals**

11:18 - 11:26

*Oral Abstract Presenter:* Elif Cakan (United States)

**GLUT3 promotes stemness and survival of activated CD8 T cells through ROS detoxification**

11:26 - 11:34

*Oral Abstract Presenter:* Hao Wu (Germany)

**Obesity-associated immune dysfunction affects vaccination outcomes and natural immunoglobulin production in obese adults**

11:34 - 11:42

*Oral Abstract Presenter:* Erika Garner-Spitzer (Austria)

*Abstract Session*

10:30 - 12:00

Hall L3

**Asthma**

*Chair:* Riem Gawish (Austria)

*Chair:* Duan Ni (Sydney, Australia)

**Immune homeostasis regulation by bio-regulators of bacterial origin**

10:30 - 10:38

*Oral Abstract Presenter:* Svetlana Guryanova (Russian Federation)

<b>Type 1 IFNs drive trained immunity in asthma</b>	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Eya Ben Salah (Switzerland)	
<b>Cross-compartment multi-modal analyses identify ancestral differences in IL2-STAT5 signalling associated with asthma</b>	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Duan Ni (Australia)	
<b>Targeting RNA-binding protein HuR (<i>Elavl1</i>) with small molecule inhibitor KH-3 suppresses type 2-driven airway inflammation in allergic asthma</b>	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Ulus Atasoy (United States)	
<b>Lipid receptors as key regulators of pathogenic T cells in allergic airway inflammation</b>	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Anna Krone (Germany)	
<b>Type-3 airway immunity in early life: good or bad?</b>	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Carsten B. Schmidt-Weber (Germany)	
<b>Age- and immune-dependent epithelial programs as predictive markers for asthma persistence in childhood</b>	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Constanze A. Jakwerth (Germany)	
<b>Respiratory syncytial virus (RSV) infections may be a trigger factor for adult asthma</b>	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Katarzyna Niespodziana (Austria)	
<b>The phosphatase DUSP23 promotes Th2-induced allergic asthma and atopic dermatitis by preventing GATA3 ubiquitination and degradation</b>	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Tse-Hua Tan (Taiwan)	
 <i>Satellite Symposium</i>	
10:30 - 12:00	Room 0.49-50
<b>EFIS Taskforce on Education</b>	
<i>Chair:</i> Vera Martins (Lisbon, Portugal)	
<i>Chair:</i> Pablo Engel (Spain)	
<b>The EFIS Taskforce Education and an interactive databank for milestones in immunology</b>	10:30 - 10:45
<i>Speaker:</i> Hans-Martin Jäck (Germany)	
<b>Problem-oriented learning concepts for immunology</b>	10:45 - 11:00
<i>Speaker:</i> Thomas Winkler (Germany)	
<b>Immunopaedia - a learning platform for immunology</b>	11:00 - 11:15
<i>Speaker:</i> Bonamy (Bon) Holtak (South Africa)	
<b>Computer-based models to teach immunology from the undergraduate to professional and graduate level</b>	11:15 - 11:30
<i>Speaker:</i> Louis B. Justement (United States)	
<b>Round-table discussion</b>	11:30 - 12:00
<i>Speaker:</i> Francesco Annunziato (Italy)	
<i>Speaker:</i> Raivo Uibo (Estonia)	
<i>Speaker:</i> Marion Espéli (France)	
 <i>Poster Walk</i>	
12:15 - 13:45	Poster Area
<b>Cytokines</b>	
<i>Chair:</i> João Paulo Silva Nunes (São Paulo, Brazil)	
<i>Chair:</i> Ekaterina Gubernatorova (Moscow, Russian Federation)	
I.258	<b>UDCA-induced SOCS1 expression via the TGR5 receptor in mouse</b>

**macrophages ameliorates inflammation-driven EMT: implication to IBD and CRC***Poster Presenter:* Ashna Fathima (India)

I.259 **Endoglin regulates intercellular interactions between trophoblast and natural killer cells**

*Poster Presenter:* Elizaveta Tyshchuk (Russian Federation)

I.261 **A metagenome-wide association study of the gut microbiota in recurrent aphthous ulcer and regulation by thalidomide**

*Poster Presenter:* Qin Liu (China)

I.264 **The effect of long non-coding RNA - 810 on murine macrophages during *Mycobacterium tuberculosis* infection**

*Poster Presenter:* Noxolo Ntuli (South Africa)

I.265 **The  $\beta$ 2-adrenergic receptor on mast cells exhibits opposing roles in IgE/Ag-induced cytokine production: suppression with and enhancement without ligands**

*Poster Presenter:* Kei Nagao (Japan)

I.266 **A cytokine imbalance common for long COVID and chronic fatigue syndrome**

*Poster Presenter:* Yana Todorova (Bulgaria)

I.267 **Non-human primate (NHP) cell-based in vitro assays for drug discovery and safety profiling**

*Poster Presenter:* Lisa Scanduzzi (Netherlands)

I.269 **Heterogeneity of IL-15-expressing mesenchymal stromal cells controls natural killer cell development and immune cell homeostasis**

*Poster Presenter:* Dietmar Herndler-Brandstetter (Austria)

I.270 **Cytokine alterations in the pediatric population chronically exposed to high concentrations of particulate matter**

*Poster Presenter:* M. Fernanda Romo-García (Mexico)

I.271 **Interleukin-10 regulates inflammatory response and suppresses fibrosis in experimental chronic pancreatitis**

*Poster Presenter:* Rabea Lange (Germany)

I.272 **IL-2 is modulated by the soluble IL-2 receptor  $\alpha$ /CD25**

*Poster Presenter:* Juliane Lokau (Germany)

I.273 **Anti-inflammatory effect of siRNAs targeted to IL-5 and IL-13 in a murine model of allergic rhinitis**

*Poster Presenter:* Maiia Popova (Russian Federation)

I.274 **Novel blood protein signature predictive of T cell vaccine responses after two doses of COVID-19 mRNA vaccine in a UK healthcare worker cohort**

*Poster Presenter:* Yanie Tayipto (United Kingdom)

I.275 **Differential expression of IFN- $\lambda$  over IFN- $\beta$  in human airway epithelium after STING activation by cyclic dinucleotides**

*Poster Presenter:* Anne Louise Hansen (Denmark)

I.276 **IL-10: a key regulator of endolysosomal biogenesis and proteolytic activity in myeloid cells**

*Poster Presenter:* Tomislav Kostevc (Germany)

*Poster Walk*

12:15 - 13:45

Poster Area

**Autoimmunity 1***Chair:* George Robinson (United Kingdom)

I.042

**Targeting the molecular mimicry induced by sialyl transferase-expressing *C. jejuni* strains during Guillain-Barré syndrome by tailor-made cellular immunotherapies***Poster Presenter:* Sandra Lena Freier (Germany)

I.045

**Deciphering the molecular and cellular drivers of ectopic germinal centres in myasthenia gravis***Poster Presenter:* Kirsten Nowlan (Finland)

I.046

**Immune Surveillance of Urinary Antigens Promotes CD4+ T cell Response in the Kidney***Poster Presenter:* Esteban Elias (Canada)

I.048

**NETosis and CCL5/CCR5 in the pathogenesis of Systemic Lupus Erythematosus (SLE)***Poster Presenter:* Xiaolin Cao (Netherlands)

I.049

**Functionality of eosinophils in crohn's disease via NOD2/CARD9 pathway***Poster Presenter:* Elif Yaprak Sarac (Turkey)

I.050

**The in utero experience of NOD fetuses affects diabetes development, distribution of T- and B-cell populations and autoantibody formation***Poster Presenter:* Kristina Lejon (Sweden)

I.052

**Arginine di-methylation of RIPK3 safeguards necroptosis for intestinal homeostasis***Poster Presenter:* Jian Zhang (China)

I.055

**Novel NETosis-based drug candidates for autoimmunity***Poster Presenter:* Hiral Thacker (India)

I.056

**Validation of myositis panel through commercial ELISA***Poster Presenter:* Chih-Hui Chang (Taiwan)

I.058

**Preserving power: optimizing the enrichment and cryopreservation of antigen-specific Tregs for autoimmune therapies***Poster Presenter:* Sara Cestari (Germany)*Poster Walk*

12:15 - 13:45

Poster Area

**Mixed topics***Chair:* Hannes Stockinger (Austria)*Chair:* Kazuyo Moro (Japan)

I.396

**TCR profiling coupled with magnetic isolation in a one-step process - a sensitive and robust approach for antigen-specific TCR identification***Poster Presenter:* Ekaterina Serebrovskaya (Germany)

I.397

**Advanced *in vitro* human immune profiling of GMMA-based vaccines***Poster Presenter:* Mariateresa Marrocco (Italy)

I.398

**Signaling network perturbations induced by MyD88/IRAK4 novel variants***Poster Presenter:* Min Zhou (Germany)

I.399

**New policies for evaluation and naming of IG/TR genes by the IUIS**

**TR-IG nomenclature review committee***Poster Presenter:* Felix Breden (United States)

I.400 **The effect of selective orexin receptor 1 agonist OxA 17-33 on hypothalamic-pituitary-adrenal axis in rats**

*Poster Presenter:* Daniel Stránský (Czech Republic)

I.401 **Long Covid - you're getting on my (vagus) nerves**

*Poster Presenter:* Patrick Gebetsroither (Austria)

I.402 **Trained immunity and inflammasome activation are promising strategies against *Staphylococcus aureus* infections**

*Poster Presenter:* Nadia Nadejda Berkova (France)

I.403 **Investigation of the impact of the circadian clock on cachexia**

*Poster Presenter:* Joel Xu En Wong (Austria)

I.404 **CD8+ T cells drive an energy trade-off between lymphoid organs and the heart during viral infection**

*Poster Presenter:* Laura Antonio-Herrera (Austria)

I.405 **Optimizing a multicolor flow cytometry panel using the spectral detection module for immune cell analysis**

*Poster Presenter:* Anisha Jose (India)

I.406 **OMIP-104: A 30-Color flow cytometry panel on the spectral detection module**

*Poster Presenter:* Anisha Jose (India)

I.407 **Optimization of a B cell multicolor panel using the spectral detection module**

*Poster Presenter:* Anisha Jose (India)

I.408 **Optimization of a multicolor panel for T cells, ILCs, MAIT cells, and NK cells using the spectral detection module**

*Poster Presenter:* Anisha Jose (India)

I.409 **Immune Sex Differences in Blood Transcriptome are Shaped by Environmental and Metabolic Factors in Healthy Tanzanians**

*Poster Presenter:* Sneha Kanungo (Germany)

I.410 **Photoperiod-driven modulation of melatonin receptor and immune-associated genes in migratory buntings**

*Poster Presenter:* Shalie Malik (India)

I.411 **Innate lymphoid cells in patients with sinonasal tumors**

*Poster Presenter:* Darya Nizheharodava (Belarus)

I.412 **Immunoglobulin G-dependent enhancement of the infection with Coxsackievirus B4 in a murine model**

*Poster Presenter:* Hela Jaïdane (Tunisia)

I.414 **Gut Microbiome from Individuals with Anorexia Nervosa Worsen Disease Symptoms in a Mouse Model**

*Poster Presenter:* Radka Roubalová (Czech Republic)

I.415 **Microbiota of the urethra of patients with prostate cancer**

*Poster Presenter:* Gulnara Gazizullina (Russian Federation)**Poster Walk**

12:15 - 13:45

Poster Area

**Allergy***Chair:* Heimo Breiteneder (Austria)*Chair:* Marianne van Hage (Sweden)

I.001 **Intranasal challenge following epicutaneous sensitization induces stronger Th2-type inflammation in the nasal cavity compared to intranasal challenge following intranasal sensitization in BALB/c mice**  
*Poster Presenter:* Hiromi Nagano (Japan)

I.002 **Characterization of the primary uptake pathway for tolerogenic allergen-specific virus-like particles by antigen-presenting cells and approaches for its modulation**  
*Poster Presenter:* Armin Kraus (Austria)

I.004 **DUSP8 promotes IL-9 transcription and Th9-mediated allergic diseases by preventing Pur- $\alpha$  nuclear translocation**  
*Poster Presenter:* Huai-Chia Chuang (Taiwan)

I.005 **The Immunoregulatory activities of anti-inflammatory Interleukin-38 on Allergic Rhinitis**  
*Poster Presenter:* Sze Man Hon (Hong Kong)

I.006 **Regulation of selective class-switching provides long term therapeutic benefits for hay fever**  
*Poster Presenter:* Naoki Morita (Japan)

I.007 **Immunomodulatory impact of the BanLec-Bet v 1 chimera and its variants on antigen-presenting cells**  
*Poster Presenter:* Isidora Protić- Rosić (Serbia)

I.008 **Anisakis-specific IgE production is associated with gastric bacteria**  
*Poster Presenter:* Chikako Shimokawa (Japan)

I.009 **Recovery of murine mast cell dysfunction induced by simulated microgravity**  
*Poster Presenter:* Jinwook Shin (Korea, Republic of)

I.010 **Intranasal monoclonal antibodies to mugwort pollen effectively reduce allergic inflammation in a mouse model of allergic rhinitis and asthma**  
*Poster Presenter:* Kaissar Tabynov (Kazakhstan)

I.012 **Suppression of Fc $\epsilon$ RI-evoked degranulation in RBL-2H3 cells on gelatin methacryloyl hydrogel**  
*Poster Presenter:* Tadahide Furuno (Japan)

I.014 **Distinct immunological signatures in CRS phenotypes and allergic rhinitis: unraveling the role of B cells**  
*Poster Presenter:* Fana Alem Kidane (Austria)

I.015 **Sensitization to parvalbumins from small-spotted catshark in 40% of bony fish-allergic patients**  
*Poster Presenter:* Heimo Breiteneder (Austria)

I.016 **Characterization of immunogenic fungal proteins in Zimbabwean sera: a step toward population-specific allergy diagnostics**  
*Poster Presenter:* Lorraine Tsitsi Pfavayi (United Kingdom)

I.017 **IgE plasma cell regulation and survival mechanisms**  
*Poster Presenter:* Sara Hernandez Perez (United Kingdom)

I.018 **Characterization of nasal provocation-induced changes in transcription factors in birch pollen-allergic and non-allergic individuals**  
*Poster Presenter:* Giovanni Lamorte (Austria)

*Poster Walk*

12:15 - 13:45

Poster Area

**Autoimmunity 3***Chair:* Günter Steiner (Austria)*Chair:* Renata Curciarello (La Plata, Argentina)

I.079 **Reactive oxygen species production by monocytes negatively correlates with disease activity in rheumatoid arthritis**

*Poster Presenter:* Pablo Lores (Uruguay)

I.081 **Characterization of cDC2s differentiated from APECED patient iPSCs**

*Poster Presenter:* Eira Karvonen (Finland)

I.082 **Comparison of two methods for detection of antibodies against the acetylcholine receptor**

*Poster Presenter:* Tamara Savevska (North Macedonia)

I.083 **Identification and validation of novel small molecules for the treatment of Rheumatoid Arthritis**

*Poster Presenter:* Martin Kotrulev (Spain)

I.084 **Adaptive immune receptor repertoire in APECED autoimmunity: TCR dynamics and cancer protection**

*Poster Presenter:* Alexandra Elsakova (Estonia)

I.086 **Effects of methimazole on experimental autoimmune thyroiditis**

*Poster Presenter:* Miguel Barria (Chile)

I.087 **Safety, Immunogenicity, and Long-Term Efficacy of Varicella Vaccination in Children with Juvenile Idiopathic Arthritis on Anti-Cytokine Therapy**

*Poster Presenter:* Andreja Natasa Kopitar (Slovenia)

I.088 **Investigation of the frequency of CXCL16 gene polymorphism (rs2277680) in Lupus patients and its association with clinical symptoms and laboratory findings**

*Poster Presenter:* Mahya Sariaslani (Iran)

I.090 **Spatiotemporal characterisation of neutrophil populations and their niches in antigen-induced arthritis**

*Poster Presenter:* Marah Grace Chibwana (United Kingdom)

I.091 **A multi-platform approach to immune cell characterization and disease modeling**

*Poster Presenter:* Alexandra Rausch (Germany)

I.092 ***Mycobacterium tuberculosis* Acr1 Protein Induces Myeloid-Derived Suppressor Cells and Impairs Immune Function**

*Poster Presenter:* Taruna Lamba (India)

I.093 **Catestatin as a modulator of inflammation in type 1 diabetes: neuroimmune communication and macrophage regulation through  $\alpha 7$ nAChR**

*Poster Presenter:* Dali Epremidze (Sweden)

I.096 **The role of the chemokine receptor CCR5 in Giant Cell Arteritis**

*Poster Presenter:* Annie Peacock (United Kingdom)*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 3***Chair:* Olivera Finn (United States)*Chair:* Ariel Munitz (Israel)

I.176 **Decoding anti-cancer potential of phytoextracts regulating Innate Immune Inflammasome Pathways: Cues from Preclinical and immunomodulatory approaches**

*Poster Presenter:* Trupti Pradhan (India)

I.177 **Extracellular Vesicles as mediators of microRNA transfer during Immunogenic Cancer Cell Death**

*Poster Presenter:* María Julia Lamberti (Argentina)

I.178 **Mechanisms of humoral immune dysfunction in CLL**

*Poster Presenter:* Michelle Maria Elbert (Germany)

I.179 **Tumor heterogeneity and genomic instability in classical Hodgkin lymphoma**

*Poster Presenter:* Sophie Klotz (Germany)

I.180 **Localized targeting of acetylcholine-mediated nerve-cancer cell-immune cell crosstalk for mitigating tumor progression**

*Poster Presenter:* Dolly Jain (India)

I.181 **Targeting FGF8: insights into its role in ovarian cancer progression and immune modulation**

*Poster Presenter:* Savita Yadav (India)

I.182 **Epigenetic regulation of immunoproteasome steers the chemotherapy response of hot and cold tumor microenvironment**

*Poster Presenter:* Somesh Kumar Jha (India)

I.186 **Role of Bcl-3 and senescence in colorectal cancer**

*Poster Presenter:* Alessandra Cassana (Chile)

I.187 **Characterization of intratumoral microbiome of multiple myeloma**

*Poster Presenter:* Juyoung Park (Korea, Republic of)

I.189 **Intra-tumor neoantigen vaccination enhances vaccine efficacy against cold tumors**

*Poster Presenter:* Kou Hioki (Netherlands)

I.190  **$\beta_2$ -integrin deficiency on regulatory T cells and granulocytic-derived suppressor cells promotes an inflammatory tumor microenvironment and attenuates melanoma growth**

*Poster Presenter:* Atri Ghods (Germany)

I.191 **MST1 deficiency drives CD8<sup>+</sup> T cell activation and suppresses T regulatory cells to enhance tumor control**

*Poster Presenter:* Antoine Bouchard (Canada)

I.192 **Inhibition of Toll-like receptor 4 enhances radiotherapy response in non-small cell lung cancer**

*Poster Presenter:* Ryma Haroun (Canada)

I.193 **The role of ZNF334 in glioma growth, migration and IL-6 secretion**

*Poster Presenter:* Chin-An Yang (Taiwan)

*Poster Walk*

12:15 - 13:45

Poster Area

**Novel immunomodulation therapies**

*Chair:* Narinder Mehra (India)

*Chair:* Veronica Pinnaro (Vienna, Austria)

I.416 **Orchestrating intratumoral DC-T cell immunity for local and distal tumor control**

*Poster Presenter:* Xiaozhe Yin (China)

I.417 **LPS modulates ORMDL3 and affect chemokine expressions in acute**

**respiratory distress syndrome model***Poster Presenter:* Jason Ma (Taiwan)

I.418 **Extracorporeal photopheresis and immune signatures in lung transplantation: a serum-based analysis**

*Poster Presenter:* Panagiotis Parsonidis (Austria)

I.420 **Oxidized phospholipids regulate tenocyte function via the induction of amphiregulin in dendritic cells**

*Poster Presenter:* Veronica Pinnaro (Austria)

I.422 **Preoperative exercise therapy modulates circadian-dependent innate immunity against liver ischemia/reperfusion injury**

*Poster Presenter:* Hai Huang (United States)

I.424 **TNFR2 - a pleiotropic target for agonistic antibody immunotherapy**

*Poster Presenter:* Carolin Svensson (Sweden)

I.425 **Discovery and early characterization of PROTACs for the treatment of autoimmune diseases**

*Poster Presenter:* Eva Hambruch (Germany)

I.426 **Selective inhibition of Kv1.3 channel: immune-sparing therapy for chronic inflammatory and autoimmune diseases**

*Poster Presenter:* Patrik Szekér (Hungary)

I.427 **Monovalent anti-CD3 antibodies deplete activated T cells to generate GVHD-free allogeneic CAR-T cells**

*Poster Presenter:* Ji Hwan Kim (Korea, Republic of)

I.428 **Chemical, *in silico* and *in vitro* evaluation of polyphenols from *Bactris guineensis* (L.) H.E.Moore fruit peels using a humanized rat basophil leukemia (huRBL) cell assay**

*Poster Presenter:* Velky Ahumada (Colombia)

I.429 **Assessment of wound healing potential of curcumin loaded silver metal-organic frameworks (Ag-MOFs) In excisional wound models of rats**

*Poster Presenter:* Sabahat Sarfaraz (Pakistan)

I.431 **Protective effects of 5-aminolaevulinic acid with sodium ferrous citrate on unilateral ureteral obstruction-induced renal injury and fibrosis**

*Poster Presenter:* Masayuki Fujino (Japan)

I.432 **MV130 as a new innate memory-based immunotherapy against cancer**

*Poster Presenter:* Luna Minute (Spain)**Poster Walk**

12:15 - 13:45

Poster Area

**T cells 2***Chair:* Luciana Besedovsky (Germany)*Chair:* Shinya Sakaguchi (Austria)

I.498 **The establishment of influenza-specific tissue resident helper CD4+ T cells require sensing of extracellular ATP via P2RX7 receptors**

*Poster Presenter:* Henrique Borges da Silva (United States)

I.499 **The  $\alpha 7$  nicotinic acetylcholine receptor modulates human memory T helper cell function through NF- $\kappa$ B p65 inhibition**

*Poster Presenter:* Fatemeh Gholizadeh (Canada)

I.500 **The importance of vaccination strategies targeting skin imprinting**

**for arthropod-borne diseases***Poster Presenter:* Janne Wouters (Belgium)

I.501 **Repeated mRNA vaccination boosts memory CD8<sup>+</sup> T cell responses but promotes differentiation with decreased proliferative capacity**

*Poster Presenter:* Sungmin Jung (Korea, Republic of)

I.502 **HLA restriction shapes the phenotype and functional profile of CD4<sup>+</sup> T cells responsive to the same SARS-CoV-2 membrane antigenic peptide**

*Poster Presenter:* Sam Farrar (United Kingdom)

I.503 **Assessing immune memory against SARS-CoV-2 in COVID-19 vaccine recipients: a cross-sectional study in the Indian population**

*Poster Presenter:* K Mohan Reddy (India)*Poster Presenter:* Anahita Bharathan (India)

I.504 **Beyond IL-7: Mechanisms maintaining memory T lymphocytes in blood and bone marrow**

*Poster Presenter:* Emilia Schneider Revueltas (Germany)

I.505 **In vitro differentiation of tissue resident memory phenotype T cells with gut homing moiety: towards site-specific immunotherapy**

*Poster Presenter:* Dicle Çalışkan (Turkey)

I.506 **Novel classification of human CD4+ T cell subsets based on cellular mitochondrial mass**

*Poster Presenter:* Hisashi Hashimoto (United Kingdom)

I.507 **Liver fibrosis promotes the accumulation of dysfunctional tissue resident memory CD8<sup>+</sup> T cells in the human liver**

*Poster Presenter:* George Finney (United Kingdom)

I.508 **Molecular determinants of Brain-resident CD8+ T cell formation and function**

*Poster Presenter:* Tarek Elmzzahi (Germany)

I.509 **Enhancing tuberculosis immunity: a recombinant BCG vaccine expressing IL-7 and IL-15 boosts memory T cell responses**

*Poster Presenter:* Parminder Kaur (India)

I.510 **Progenitor exhausted CXCR6<sup>-</sup>PD-1<sup>+</sup> tissue resident memory T cells mediate survival in patients with colorectal cancer liver metastatic**

*Poster Presenter:* Emilien Laloy (France)

I.511 **Tissue resident memory T cells generated *in vitro* show effector capacities and heightened response to immunotherapy in a human melanoma model**

*Poster Presenter:* Nahuel Matias Ko (Mexico)

I.512 **Compartmental differences in the persistence of intestine-resident CD8 $\alpha\alpha$  IELs**

*Poster Presenter:* Roland Ruscher (Australia)

I.513 **CD56 and CD161 co-expression marks human gut-resident innate-like CD4 T cells reactive against persistent antigens**

*Poster Presenter:* Johan K. Sandberg (Sweden)

I.514 **A local memory: unravelling survival and reactivation of CD4 type-2 resident memory T cells in allergic asthma**

*Poster Presenter:* Kieran English (Belgium)

*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 4***Chair:* Sangeeta Goswami (United States)  
*Chair:* Abdallah Badou (Morocco)

I.202 **Unveiling the Intricacies of PD-1/PD-L1 Interaction - Insights into Intercellular Exchanges in Tumor-Immune Cell Crosstalk**

*Poster Presenter:* Pierre-Hubert Desimpel (Belgium)

I.204 **A 3D patient-derived organoid co-culture model captures tumor-associated monocyte differentiation in colorectal cancer**

*Poster Presenter:* Bianca Balzasch (Germany)

I.205 **Search for cachexia-exacerbating factors by comparing transcriptomes of highly and low pathogenic colon carcinoma cell lines**

*Poster Presenter:* Yuki Oyamada (Japan)

I.207 **Navigating the Helicobacter pylori driven immune landscape from inflammation to gastric carcinogenesis in a high risk population from North India: implications for therapy**

*Poster Presenter:* Dil Afroze (India)

I.208 **Analysis of CD74 and IFN- $\gamma$  expression in peripheral blood and tumor-infiltrating lymphocytes of TNBC patients**

*Poster Presenter:* Aysenur Kokoglu (Turkey)

I.209 **ERVH-2 expressed in metastatic colorectal cancer induces specific T cell responses within protumoral microenvironment**

*Poster Presenter:* Nawfel Adib (France)

I.211 **Differential effects of indirubin-3'-monoxime on FLT3-ITD and wild-type acute myelogenous leukemia cells**

*Poster Presenter:* Jing-Jing Chuang (Taiwan)

I.212 **Exosome-derived Gene signatures as prognostic biomarkers and immune modulators in gastric cancer**

*Poster Presenter:* Zhiwei Jiang (Hong Kong)

I.213 **Trained innate immunity induced by *Bacillus Calmette-Guérin* enhances systemic antitumor response improving bladder cancer (MB49) immunotherapy**

*Poster Presenter:* Sergio C. Oliveira (Brazil)

I.214 **Plasmacytoid dendritic cells promote colon cancer development at an early stage**

*Poster Presenter:* Martin Holmann (Austria)

I.215 **The role of tryptophan depletion in regulatory T cell-mediated immunosuppression in the tumor microenvironment**

*Poster Presenter:* Constance Gérard (Belgium)*Poster Walk*

12:15 - 13:45

Poster Area

**Reproductive immunology***Chair:* Simona Saluzzo (Austria)

I.451 **Chronic Prostatitis Induces Semen Inflammation, Disrupts Immunomodulation in the Female Genital Tract, and Compromises Fertility**

*Poster Presenter:* Ruben Dario Motrich (Argentina)

I.453 **Inflammatory human cytomegalovirus-specific CD8 $^{+}$  T cells in pregnancy**

*Poster Presenter:* Brandon Paarwater (South Africa)

I.461 **Unsupervised analysis of high-dimensional flow cytometry data provides in-depth immunophenotyping of peripheral immune cell populations in endometriosis**

*Poster Presenter:* Johanna Franz (Germany)

I.462 **Multi-modal analyses decipher the maternal and fetal metabolic and immune landscape of gestational diabetes mellitus**

*Poster Presenter:* Duan Ni (Australia)

I.463 **Utilising high dimensional immune profiling to investigate sex hormone regulation of immune function in a unique clinical cohort of transgender young people**

*Poster Presenter:* Alice White (Australia)

I.468 **Identification of novel serum biomarkers for preeclampsia**

*Poster Presenter:* Aline Brouwer (Netherlands)

I.471 **Assessing inflammation in placentae of pregnant people living with and without HIV in South Africa using Olink T96 Inflammation Panel**

*Poster Presenter:* Lesedi Dikhoba (South Africa)

I.472 **PD1+ T Regulatory Cells Are Not Sufficient to Protect from Gestational Hypertension**

*Poster Presenter:* Martyna Tomaszewicz (Poland)

I.473 **Fetal-derived alloantigens enhance the immune response in postpartum tissue regeneration**

*Poster Presenter:* Susanne Weiß (Germany)

I.474 **Gene expression dynamics in uterine immune cells supports sustained innate immune responses in postpartum tissue healing**

*Poster Presenter:* Maurice Kappelmeyer (Germany)

#### *Poster Walk*

12:15 - 13:45

Poster Area

#### **Vaccines**

*Chair:* Emma Slack (Switzerland)

*Chair:* Joshua Tobias (Vienna, Austria)

I.515 **Generation of neutralizing human monoclonal antibodies against Rabies virus Glycoprotein**

*Poster Presenter:* Hariom Goswami (India)

I.516 **Impact of pre-existing Immunomodulatory conditions on the humoral response to the currently used bivalent COVID-19 mRNA vaccine in mice**

*Poster Presenter:* Alejandra Capozzo (Argentina)

I.517 **The immunological response to hepatitis B vaccination: a comparative analysis of CD8+ T cell subsets in responders and non-responders**

*Poster Presenter:* Kurosh Kalantar (Iran)

I.518 **Real clinical experience of vaccination of pregnant women in an unfavorable epidemiological situation**

*Poster Presenter:* Kseniia Riabova (Russian Federation)

I.519 **Effects of Sex but not Race and geographic origin on vaccine-induced HIV-specific Antibody Responses**

*Poster Presenter:* Mkunde Chachage (Tanzania)

I.520 **Developing multi-pathogen booster vaccine using attenuated MVTT**

**viral vector to induce immune response against SARS-CoV-2 and monkeypox**

Poster Presenter: Kyungmin Kim (Hong Kong)

I.521                   **Engineered outer membrane vesicles as a novel vaccine platform against COVID-19**

Poster Presenter: Harun Önler (Turkey)

I.522                   ***Leishmania spp.* extracellular vesicles mediates protection in visceral leishmaniasis**

Poster Presenter: İbrahim Tokmak (Turkey)

I.523                   **Interaction dynamics of monocytic cells with distinct aluminum adjuvants**

Poster Presenter: Ali Mert Sencer (Turkey)

I.524                   **CureVac's tailored LNP platforms for prophylactic and therapeutic mRNA vaccine**

Poster Presenter: Dinesh Dhumal (Germany)

I.525                   **Intramuscular Group A *Streptococcus* mRNA vaccine generates robust and long-lived T and B cell responses in mice**

Poster Presenter: Rhiannon Bolton (Australia)

I.527                   **A silica nanoparticle-based vaccine platform for induction of anti-HPV16 T cell responses in an HPV16 E6/E7-dependent orthotopic tumor model in MHC-humanized mice**

Poster Presenter: Ann-Katrin Schlosser (Germany)

I.529                   **Reduced immune responsiveness and memory upon SARS-CoV-2 vaccination in Obese Mice**

Poster Presenter: Nora Geissler (Austria)

I.530                   **Acid-responsive Polycarbonate Micelles as fully degradable NP**

Poster Presenter: Laura Rosenberger (Germany)

I.531                   **Prophylactic and therapeutic influenza vaccine using self-attenuated influenza virus**

Poster Presenter: Mingtao Zeng (United States)

I.533                   **The kinetics of endosomal disruption reveal differences in lipid nanoparticle induced cellular toxicity**

Poster Presenter: Stephanie M. Bates (United Kingdom)

**Poster Walk**

12:15 - 13:45

Poster Area

**COVID**

Chair: Gunilla Karlsson Hedestam (Sweden)

Chair: Andreas Bergthaler (Austria)

I.534                   **Hybrid immunity enhances memory T-cell effector function and antibody responses against SARS-CoV-2 following immunization**

Poster Presenter: Alejandro Torres-Flores (Mexico)

I.536                   **Secretory IgA in saliva as a marker of mucosal immunity in response to various COVID-19 vaccines**

Poster Presenter: Jacqueline Calla-Magarinos (Bolivia)

I.538                   **Characterisation of T cell responses to SARS-CoV-2 infection and inactivated vaccines in Zimbabwean adults living with and without HIV**

Poster Presenter: Brenda Nherera (Zimbabwe)

I.540                   **B cell subpopulation changes during acute COVID-19 are transient**

Poster Presenter: Suvi Tuulia Jokiranta (Finland)

I.541 **Analysis of the infection status of the health care workers in Wuhan during the COVID-19 outbreak: a cross-sectional study**

*Poster Presenter:* Wenmei Wang (China)

I.542 **Neurological and immunological sequelae of severe COVID-19: insights from the Philippine cohort of the GINCO cohort e-ASIA Study**

*Poster Presenter:* Fresthel Monica Climacosa (Philippines)

I.544 **An RBD-based universal mucosal vaccine strategy against the variants of SARS-CoV-2**

*Poster Presenter:* Aparna Varma (India)

I.546 **Evolution of SARS-CoV-2 seroprevalence in Albania: insights into population immunity and hybrid immunity dynamics**

*Poster Presenter:* Genc Sulcebe (Albania)

I.547 **Identification of differentially expressed circulating microRNAs in long COVID: a prospective case-control RNA-seq and qPCR validation study**

*Poster Presenter:* Emilie Han (Austria)

I.548 **Correlation of lymphocyte subsets and inflammatory biomarkers with disease severity in COVID-19 patients**

*Poster Presenter:* Khawar Abbas (Pakistan)

I.552 **Anti-ACE2 neutralizing monoclonal antibodies as broad spectrum antivirals to combat SARS-CoV-2 variants and other emerging coronaviruses**

*Poster Presenter:* Pablo Hernández-Luis (Spain)

I.553 **Characterization of reference standards of RNAi-based drug for the treatment of SARS-CoV-2 infection**

*Poster Presenter:* Vladislav Turenko (Russian Federation)

*Poster Walk*

12:15 - 13:45

Poster Area

**HIV**

*Chair:* Theresa Rossouw (South Africa)

*Chair:* Johannes Stöckl (Austria)

I.554 **T-cell responses to SARS-CoV-2 after administration of a booster vaccine in people living with advanced HIV**

*Poster Presenter:* Dexter Tadiwanashe Chiveto (South Africa)

I.555 **Maternal HIV infection expands tissue-tropic memory NK cells in HIV exposed uninfected infants**

*Poster Presenter:* Rachael Gachogo (South Africa)

I.556 **Distinct immuno-metabolic profile linked to HIV-associated neurocognitive disorders (HAND): the role of a disrupted gut-brain axis**

*Poster Presenter:* Mohammad-Ali Jenabian (Canada)

I.558 **Persistent immune activation limits cellular immunity at first antigen encounter in treated people with HIV**

*Poster Presenter:* Anahita Blaschke (Germany)

I.559 **Harnessing immunopeptidomics to characterise CD8<sup>+</sup> T cell mediated HIV-1 control**

*Poster Presenter:* Jennifer Chen (Australia)

I.560 **Exploiting the blind spot: how HIV mutations evade immune recognition**

*Poster Presenter:* Balázs Szücs (Hungary)

I.561 **Oral cannabinoids treatment modulate immune cell populations and inflammatory Gene expression signature in people with HIV under ART: results of the CTN PT028 clinical trial**

*Poster Presenter:* Mohammad-Ali Jenabian (Canada)

I.562 **Elevated levels of complement components links to markers of gut translocation and macrophage activation in virally suppressed children adolescent living with HIV**

*Poster Presenter:* Zipei Wang (South Africa)

I.563 **Characterization of T cells expressing low levels of CD8 in people with HIV during their 1<sup>st</sup> year of ART**

*Poster Presenter:* Igor Moraes-Cardoso (Spain)

I.564 **Persistent opioid-associated dysregulation of the innate immune system in people living with HIV**

*Poster Presenter:* Brent Bever (United States)

I.565 **Characterization of innate lymphocytes in HIV-exposed uninfected infants**

*Poster Presenter:* Ana Paula Soto-Salcedo (Mexico)

I.566 **Immune recovery and ART regimen: no impact on gut dysfunction and inflammation in PLWH**

*Poster Presenter:* Francesca La Rosa (Italy)

I.570 **Inflammatory biomarker profiling to predict neuroinflammation and depression in adolescents with HIV**

*Poster Presenter:* Shalena Naidoo (South Africa)

I.571 **Impact of HIV Infection on placental Gene Expression During Pregnancy: Implications for Fetal Immune Response and Development**

*Poster Presenter:* Emanuella Sarmento Alho de Sousa (Brazil)

I.572 **CD96: a new co-stimulatory receptor on primary human CD4+ T cells**

*Poster Presenter:* Rabea Burkhard (Germany)

I.573 **COBINED USE OF bNAb/LEFITOLIMOD INCREASES MONOCYTE ACTIVATION IN PEOPLE LIVING WITH HIV-1 AFTER ART INTERRUPTION**

*Poster Presenter:* Fabrícia Heloisa Cavicchioli Sugiyama (Brazil)

I.574 **Myeloid cell-restricted Nef expression in novel transgenic mice induces macrophage dysfunction, systemic inflammation, and spontaneous papillomas**

*Poster Presenter:* Marina Drutskaya (Russian Federation)

I.575 **Comparative analysis of the HIV-1 Subclade C reservoir localization and cellular function in pediatric and adult tonsillar tissues**

*Poster Presenter:* Faiaz Shaik Abduol (South Africa)

#### *Poster Walk*

12:15 - 13:45

Poster Area

#### **Antigens and antibodies**

*Chair:* Sabine Flicker (Vienna, Austria)

*Chair:* Barbara Bohle (Austria)

I.020 **A real-time biochemical assay for AID-catalyzed DNA deamination**

*Poster Presenter:* Kazuo Kinoshita (Japan)

I.022 **Establishment of a clot biopsy technique to assess inflammatory responses aligned with the sustainable development goals**

*Poster Presenter:* Yasuhiro Yoshida (Japan)

I.025 **Development of a cell-based screening platform for selection of antibodies against membrane proteins**

*Poster Presenter:* Valerija Kovač (Slovenia)

I.026 **Divergent inducible IgA responses during commensal microbiota-mediated intestinal inflammation**

*Poster Presenter:* Christian Melcher (Germany)

I.028 **Thioredoxin reduction of therapeutic anti-TNF IgG-1 monoclonal antibodies unlocks the potential to form immunogenic covalent cross links between IgG and Human Serum Albumin**

*Poster Presenter:* Rowan Brown (United Kingdom)

I.029 **Targeted fusion of antibody-secreting cells: unlocking monoclonal antibody production with hybridoma technology**

*Poster Presenter:* Anne Wijkhuisen (France)

I.030 **Biological characterization of a fully human antibody targeting MICA protein**

*Poster Presenter:* Yuneisy Guerra Peña (Chile)

I.032 **N-Glycanase 1 (NGLY1) fine-tunes the formation and function of antibody-secreting cells**

*Poster Presenter:* Christina Brunner (Germany)

I.035 **The role of NGLY1 in pathogenic plasma cells**

*Poster Presenter:* Michèle Ohnemüller (Germany)

I.036 **Quantitative profiling of HLA class I and II antigens and neoantigens in tissue and PBMC samples with an optimized mass spectrometry approach**

*Poster Presenter:* Daniel Redfern (United Kingdom)

I.037 **A practical guide for adaptive immune receptor repertoire profiling and characterization of antigen-induced clonotypes with applications in vaccine development, autoimmunity, and cancer**

*Poster Presenter:* Alex Chenchik (United States)

I.038 **Immunogenic cryptic peptides dominate the antigenic landscape of ovarian cancer**

*Poster Presenter:* Marion Curtis (United States)

*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 2**

*Chair:* Jan Böttcher (Germany)

*Chair:* Luljeta Ahmetaj (Prishtina, Kosovo)

I.157 **3'UTR HLA-G gene polymorphisms are associated with cervical cancer: a comprehensive meta-analysis**

*Poster Presenter:* Ines Zidi (Tunisia)

I.158 **Involvement of HLA-E gene polymorphism in colorectal cancer prognosis**

*Poster Presenter:* Ines Zidi (Tunisia)

I.159 **p-FADD-CD8<sup>+</sup>T cell axis determines hepatocellular carcinoma response to immune checkpoint inhibitors**

*Poster Presenter:* Jingying Zhou (Hong Kong)

I.160 **Immunotherapy with NK92-CD16 and expanded NK cells combined with proteasome inhibitors on multiple myeloma cells**

*Poster Presenter:* Brenda Gisela Martinez Oliva (Spain)

I.161 **Automated, efficient, and reliable mouse tumor processing**

*Poster Presenter:* Frann Antignano (Canada)

I.162 **Understanding the interaction between the vaginal microbiome and host immune response in the progression of papillomavirus-mediated cervical cancer**

*Poster Presenter:* Akash Hirgond (Canada)

I.163 **Cgas deficiency promotes tumor growth by supporting B cell persistence and angiogenesis**

*Poster Presenter:* Papasara Chantawichitwong (Thailand)

I.164 **Fucosyltransferase 5 mediates immune evasion by suppressing unconventional DN T cells and paradoxically modulates tumor response to immunotherapy**

*Poster Presenter:* Sze Wai Fung (Hong Kong)

I.167 **Evaluation of the adjuvant effect of nicotinamide in a chemotherapy treatment for human intestinal cancer**

*Poster Presenter:* Luis Moreira (Brazil)

I.169 **Innate NKG2A CD8 T-cells as a promising new target for immunotherapies in ovarian cancer**

*Poster Presenter:* Alice Barbarin (France)

I.171 **Investigation of dietary influence on lipid droplets in colon cancer development**

*Poster Presenter:* Jessica Ristow Branco (Brazil)

I.174 **Impact of NKG2D genotypes on clinical outcomes and immune profiles in chilean patients with colorectal cancer**

*Poster Presenter:* Fabiola Gonzalez-Herrera (Chile)

I.175 **Checkpoint inhibitors in the lung - implications for lung transplantation and tumor treatment**

*Poster Presenter:* Wiebke Rackwitz (Germany)

*Poster Walk*

12:15 - 13:45

Poster Area

**Primary and secondary immunodeficiency**

*Chair:* Isabelle Meyts (Belgium)

*Chair:* Kaan Boztug (Vienna, Germany)

I.433 **Homozygous DNA ligase IV W447C mutation causes Th1-skewing enterocolitis under adaptive immunodeficiency in mice**

*Poster Presenter:* Hideki Kosako (Japan)

I.434 **Novel low-frequency coding variants in CXCR2 are associated with low blood neutrophil counts**

*Poster Presenter:* Halenya Monticelli (Austria)

I.435 **NFKB1 haploinsufficiency can present with variable immunological and clinical responses**

*Poster Presenter:* Wenny Santaniemi (Finland)

I.437 **Trained immunity induced by live or heat-killed BCG: immune response and protection against heterologous challenge**

*Poster Presenter:* Luciana Cezar de Cerqueira Leite (Brazil)

I.438 **A deep intronic DOCK8 variant in two kindreds with Hyper-IgE syndrome**

*Poster Presenter:* Fatma Betul Oktelik (Turkey)

I.439 **NFATc1 deficiency: unveiling metabolic reprogramming as a therapeutic strategy for CD8+ T-cell dysfunction**

Poster Presenter: Sevgi Köstel Bal (Austria)

I.442 **Targeting ALPK1 to modulate immune dysregulation in the ROSAH syndrome**

Poster Presenter: Julia Hecker (Germany)

I.443 **Dysfunction of immunoproteasome subunit *Psmb8* in T cells induces rapid cell death dependent of TCR engagement**

Poster Presenter: Erkhebayar Shinebaatar (Japan)

I.444 **Standardized ontology-based patient data in the canadian inborn errors of immunity national registry: a foundation for interoperability and advanced analysis algorithms**

Poster Presenter: Beata Derfalvi (Canada)

I.445 **Primary immunodeficiency in adults: One-year experience from a tertiary care centre in North India**

Poster Presenter: Baidhnath Kumar Gupta (India)

I.446 **Bone marrow failure as presentation of DADA 2**

Poster Presenter: Lucia Peirano (Argentina)

I.448 **DEF6 promotes canonical CD56dim NK cell survival and function**

Poster Presenter: Lars Gerullat (Sweden)

*Poster Walk*

12:15 - 13:45

Poster Area

**T cells 1**

Chair: Dietmar Zehn (Germany)

Chair: Bernhard Kratzer (Vienna, Austria)

I.476 **Histone deacetylase 1 controls the generation and maintenance of effector-like CD8+ T cells during chronic viral infection**

Poster Presenter: Emi Miyakoda (Austria)

I.477 **The CD73 ectoenzyme regulates cytotoxic CD4 T-cell functionality during *Trypanosoma cruzi* infection**

Poster Presenter: Gastón Bergero (Argentina)

I.478 **Contribution of cytotoxic and tissue-resident memory CD4+ T cells to immunity against human renal cell carcinoma tumors**

Poster Presenter: Farides Saavedra (Chile)

I.480 **Role of adenosine receptor A2A in the generation of exhausted CD8+ T cells in the tumor microenvironment**

Poster Presenter: Daniela Sauma (Chile)

I.481 **KIR+ CD8+ T cells are key modulators of diminished anti-viral responses in older adults**

Poster Presenter: Tamara Schenk (Netherlands)

I.482 **Expanded CD8+ T cell clones targeting CagA-epitopes shape the gastric infiltrate induced by *Helicobacter pylori***

Poster Presenter: Maximilian R. A. Koch (Germany)

I.483 **Modulation of *in vitro* CD8+ T cell differentiation by metabolic pathways**

Poster Presenter: Gustavo Amarante-Mendes (Brazil)

I.484 **Statins promote an anti-tumor activity of anti-PD-1 antibody by enhancing tumor-specific CD8+ T cells via possible inhibition of Tregs and T cell exhaustion**

Poster Presenter: CHAW KYI THA THU (Japan)

I.485 **Human  $\gamma\delta$ 2 T cells sustain multifunctionality during IL-2/15**

**stimulation**

*Poster Presenter:* Pedro Ventura (Switzerland)

I.486 **Multimodal landscaping of human liver sinusoidal  $\gamma\delta$  T cells according to HCMV serostatus**

*Poster Presenter:* Bae-Hyeon Moon (Korea, Republic of)

I.487  **$\gamma\delta$  T cells regulate epithelial cell status in intestinal organoid cultures**

*Poster Presenter:* George Adams (United Kingdom)

I.489 **Early measles immunization in children before 12 month of age shapes specific T cell responses**

*Poster Presenter:* Maaike van der Staak (Netherlands)

I.490 **The impact of the tumor micromilieu on gamma delta T cell function in squamous cell carcinoma in Epidermolysis bullosa**

*Poster Presenter:* Leonie Schoeftner (Austria)

I.492 **Characterizing unconventional T cell populations in aneurysmal subarachnoid hemorrhage: a preliminary study**

*Poster Presenter:* Noémi Balázs (Hungary)

I.494 **Mucosa-associated invariant T cells drive early liver fibrosis with a type-17 functional bias**

*Poster Presenter:* Nicole Wang (Canada)

I.495 **TCR affinity and bond lifetime for lipid antigen dictates phenotype and function of iNKT1 and iNKT2 cells**

*Poster Presenter:* Jacob Kisiolek (United States)

I.496 **Modeling acute intestinal inflammation with patient-derived appendix organoids reveals MAIT cell trafficking, recruitment, and pathological roles**

*Poster Presenter:* Edwin Leeansyah (China)

**Poster Walk**

12:15 - 13:45

Poster Area

**Autoimmunity 2**

*Chair:* Teresa Preglej (Vienna, Austria)

*Chair:* Musa Khaitov (Russian Federation)

I.059 **NLRP3 exacerbates EAE severity through ROS-dependent NET formation in the mouse brain**

*Poster Presenter:* Jaeho Lee (Korea, Republic of)

I.060 **Investigating helper T and innate lymphoid cells in the active and remission phases of autoimmune demyelinating diseases**

*Poster Presenter:* Kar Min Loh (Malaysia)

I.061 **Neopterin as a predictive marker for active-disease in antineutrophil cytoplasmic autoantibody-associated vasculitis**

*Poster Presenter:* Mahendra Kumar (India)

I.062 **Peripheral monocyte and dendritic cell distribution during and between attacks in PFAPA syndrome**

*Poster Presenter:* Sara Sebnem Kilic (Turkey)

I.063 **Respiratory allergy and autoimmune lung disease, clinical confounders**

*Poster Presenter:* Elophe Sibanda (Zimbabwe)

I.064 **GPR141, an orphan GPCR, is a negative regulator in the immune system**

*Poster Presenter:* Tomonori Kaifu (Japan)

I.065 **Antigen discovery in seronegative myasthenia gravis employing a novel *in-vitro* model of the neuromuscular junction**

*Poster Presenter:* Marlene Wolfsgruber (Austria)

I.066 **Dysregulation of p63 expression in the salivary gland epithelium leads to the development of Sjögren's syndrome**

*Poster Presenter:* Daisuke Suzuki (Japan)

I.067 **Identification of gut-derived, CNS-specific autoimmune antibodies in IBD patients**

*Poster Presenter:* Benjamin Jädicke (Germany)

I.070 **Immunoregulatory carbohydrates on T cells are dysregulated in ankylosing spondylitis**

*Poster Presenter:* Hani Choksi (Canada)

I.071 **Understanding the role of T Cell dysregulating microRNAs in the etiology of Psoriasis**

*Poster Presenter:* Manju Jain (India)

I.076 **Preventing L-plastin phosphorylation in T cells ameliorates imiquimod-induced psoriasis in mice**

*Poster Presenter:* Huiying Liu (Germany)

I.077 **Assembly of the TCR-HLA interaction puzzle in T1D**

*Poster Presenter:* Ilnar Muftakhutdinov (Russian Federation)

I.078 **Increased frequency of Tph and Tf<sub>h</sub> cells and serum concentration of IL-6 and TGFB3 in patients with systemic lupus erythematosus**

*Poster Presenter:* Katya Rocío Félix-Murray (Mexico)

*Poster Walk*

12:15 - 13:45

Poster Area

**Clinical immunology**

*Chair:* Massoud Vosough (Tehran, Iran)

*Chair:* Elisabeth De Leeuw (Ghent, Belgium)

I.239 **The Cold-shock Protein YB-1 Controls Pathogenetic Th2 Cells during Asthma through Metabolic-epigenetic Mechanisms**

*Poster Presenter:* Hildburg Volkmann (Germany)

I.240 **Intermittent fasting-derived acetate alleviates ILC2-mediated type 2 airway inflammation**

*Poster Presenter:* Young Jin Pyung (Korea, Republic of)

I.244 **In search of new immune mechanisms for severe asthma**

*Poster Presenter:* Nontobeko Mthembu (South Africa)

I.245 **Microbiota-derived butyrate alleviates asthma via inhibiting Tf<sub>h</sub>13-mediated IgE production**

*Poster Presenter:* Yiwei Chu (China)

I.246 **Early life RSV infection as a preventable risk factor for asthma**

*Poster Presenter:* Elisabeth De Leeuw (Belgium)

I.247 **Functional characterization of a novel type-3 immune-epithelial phenotype (E3) implicated in asthma pathogenesis**

*Poster Presenter:* Helen Charles (Germany)

I.248 **A conditional CRISPR/Cas9-mediated knockout approach targeting transmembrane adaptor proteins SIT and TRIM in CD4+ T cell-mediated HDM-induced allergic asthma and CD8+ T cell-mediated tumor immunity**

*Poster Presenter:* Nouria Jantz-Naeem (Germany)

I.249 **LMTK3 mediates thrombin-induced IL-8/CXCL8 expression and airway inflammation in severe asthma**  
*Poster Presenter:* Bing-Chang Chen (Taiwan)

I.251 **Reduced type I interferon response in plasmacytoid dendritic cells is associated with asthma in school-aged children**  
*Poster Presenter:* Jonatan Leffler (Australia)

I.252 **Smart dual-stimuli hydrogels: a platform for targeted drug delivery in dynamic biomedical environments**  
*Poster Presenter:* Soo Kyung Jun (Korea, Republic of)

I.253 **Targeting neutrophil extracellular traps (NETs) with anti-citrullinated histone antibody CIT-013: a promising therapeutic for immune-mediated inflammatory diseases**  
*Poster Presenter:* Annemarie Kip (Netherlands)

I.255 **Immunoregulatory cytokine IL-27 is a promising new biologic therapeutic for autoimmune arthritis**  
*Poster Presenter:* Kamal Moudgil (United States)

I.256 **Real life experience with a large cohort of patients with acute intermittent porphyria treated with the RNA interference-based givosiran**  
*Poster Presenter:* Anamaria Bancos (Romania)

I.257 **Exploring the repository of de novo- designed bifunctional antimicrobial peptides through deep learning**  
*Poster Presenter:* Rongrong Liu (China)

**Poster Walk**

12:15 - 13:45

Poster Area

**Genetics and bioinformatics***Chair:* Camila Coelho (United States)

I.277 **Single-cell network analysis identifies novel pro-inflammatory drivers in dendritic cells during viral infections**  
*Poster Presenter:* Christian Forst (United States)

I.278 **Transcriptional landscape of extracellular vesicle-binding immune cells based on single-cell RNAseq**  
*Poster Presenter:* Franziska Prummer (Germany)

I.279 **IMGT databases and tools for biocuration of immunoglobulin and T cell receptor genes**  
*Poster Presenter:* Guilhem Zeitoun (France)

I.280 **Transcriptomic perspective on high-fat diet-induced colon remodeling in mice**  
*Poster Presenter:* Minkyeong Ro (Korea, Republic of)

I.281 **Establishing a bioinformatic analysis workflow for the detection of alternative splicing events in T helper cell subsets**  
*Poster Presenter:* Monika Waldherr (Austria)

I.282 **Deciphering therapeutic potential and underlying mechanistic insights of Indian medicinal plants targeting the tumour-immune microenvironment in pancreatic cancer by computational and preclinical approaches**

I.283 **Targeted proteomics unveils unique biomarker profiles in chronic rhinosinusitis**  
*Poster Presenter:* Christina Morgenstern (Austria)

I.284 **Characterization of adipose tissue T and NK lymphocytes of**

**patients with obesity using single nuclei RNA sequencing***Poster Presenter:* Rafael Silva Lima (Brazil)

I.285 **Immunoinformatic mapping of the landscape of T-cell specificity and phenotype in synovial fluid of arthritic diseases**

*Poster Presenter:* Vincent Van Deuren (Belgium)

I.286 **Machine learning approaches to dissect hybrid and vaccine-induced T cell immunity**

*Poster Presenter:* Annalisa Ciabattini (Italy)

I.289 **Integrative analysis of single-cell RNA and TCR sequencing data reveals clonal features in human diseases**

*Poster Presenter:* Hongjian Sun (Australia)

I.290 **Diagnosis of autoimmune diseases using indirect immunofluorescence (IFI) and artificial intelligence (AI)**

*Poster Presenter:* Rahmani Amine (Algeria)

I.291 **Beyond the Genome: Refining Adaptive Immune Receptor Annotation**

*Poster Presenter:* Mats Ohlin (Sweden)

I.292 **Predicting CD4+ vs. CD8+ T Cell Fate from Murine Single-Cell TCR Sequences Using Machine Learning**

*Poster Presenter:* Juraj Michalik (Czech Republic)

I.293 **NFDI4Immuno - a FAIR data future in immunological sciences**

*Poster Presenter:* Sebastian Böhm (Germany)

I.294 **Engineering Optimized scFv-Fc Antibody-Drug Conjugates Targeting Galectin-3BP for Enhanced Cancer Therapy**

*Poster Presenter:* João Martins Sena (Brazil)

I.295 **A tissue-first scRNAseq pipeline uncovers tumour-specific and tumour-conserved B cell populations**

*Poster Presenter:* Isabella Withnell (United Kingdom)**Poster Walk**

12:15 - 13:45

Poster Area

**Blood cells and proteins***Chair:* Azzeddine Tahiat (Algiers, Algeria)*Chair:* Marion Brunck (Monterrey, Mexico)

I.100 **Lymphocyte phenotype in CD55 deficiency (CHAPLE disease): insights from a cohort study**

*Poster Presenter:* Azzeddine Tahiat (Algeria)

I.101 **Immune evasion strategies of the opportunistic yeast pathogen *Candida glabrata***

*Poster Presenter:* Tahsin Ahamed Khan (United Kingdom)

I.102 **Cellular complement and opsonized HIV-1 drive dendritic cell maturation and survival via Mcl-1 stabilization and anaphylatoxin receptors**

*Poster Presenter:* Wilfried Posch (Austria)

I.103 **Complement activity and NETs biomarkers in pediatric patients with immune dysregulation**

*Poster Presenter:* Marzena Garley (Poland)

I.105 **Single-cell dissection of bone marrow leukocytes in rhesus macaques**

*Poster Presenter:* Maria Guryleva (Sweden)

I.106 **Preserving cellular identity: APOBEC2 safeguards lymphoid cell-fate integrity during differentiation**

*Poster Presenter:* Elias Moris Amro (Germany)

I.107 **Measurable residual disease detection in pediatric BCP-ALL: Insights from novel immunophenotypic markers**

*Poster Presenter:* Hristo Taskov (Bulgaria)

I.108 **Impact of cytokines and soluble plasma proteins on the immune profile of acute myeloid leukemia patients**

*Poster Presenter:* Antonin Ptacek (Czech Republic)

I.110 **Impaired dendritic cell differentiation in multiple myeloma**

*Poster Presenter:* Stella Autenrieth (Germany)

I.112 **EFFECTS OF DIOSCIN ON NLRP3 INFLAMMOSOME EXPRESSION AND APOPTOSIS IN CHRONIC LYMPHOCYTIC LEUKEMIA CELLS**

*Poster Presenter:* Sanem Gokcen (Turkey)

I.114 **Anti-inflammatory effects of CAP-1902 in an LPS-induces mouse model: reduction of inflammatory monocytes, neutrophils, and CCL2 signaling**

*Poster Presenter:* Elsa Reyes-Reyes (United States)

I.115 **Adipose tissue macrophage-derived exosome containing miR-125a-5p and let-7e-5p regulates MAFLD progression via targeting AMPK pathway**

*Poster Presenter:* Hong-Yan Qin (China)

I.116 **The role of a small neutral amino acid transporter in macrophage metabolic reprogramming during inflammation**

*Poster Presenter:* Shota Yasukura (Japan)

I.117 **Co-engineering epidermal growth factor receptor 2 (HER-2)-specific chimeric antigen receptor (CAR) macrophages with C-X-C motif chemokine ligand 9 (CXCL9) to enhance antitumor activity**

*Poster Presenter:* István Révész (Hungary)

I.118 **Macrophages are crucial in ALGS-induced liver fibrosis**

*Poster Presenter:* Haesung Yang (Korea, Republic of)

*Poster Walk*

12:15 - 13:45

Poster Area

**B cells**

*Chair:* Mubeccel Akdis (Switzerland)

*Chair:* Xin (Andy) Gao (Australia)

I.119 **The  $\alpha$ 2,8-disialyl motif modulates B-cell receptor signaling**

*Poster Presenter:* Hoyang Tsai (Taiwan)

I.120 **The context dependent role of cAMP/PKA in B cell survival**

*Poster Presenter:* Klaus Maximilian Kistner (Germany)

I.121 **Septin-mediated organelle dynamics shape humoral responses in B cells**

*Poster Presenter:* Diogo M. Cunha (Finland)

I.122 **Acquisition of innate B cell properties and autoreactivity during homeostatic B cell proliferation**

*Poster Presenter:* Laura Kampe (Germany)

I.123 **Novel aspects of germinal center biology: AID, Ki67 and NSD2 as interrelated partners**

*Poster Presenter:* Anastasiia Marchuk (Austria)

I.125 **The role of inositol-5-phosphatase (INPP5B) in regulating human B cell function**

*Poster Presenter:* Aloka de Sa (United Kingdom)

I.126 **Antigen-dependent regulation of the early stages of unwanted human T cell-dependent B cell responses**

*Poster Presenter:* Charlotte Menage (Netherlands)

I.127 **NFATc1 transcription factor regulates human B-cell development in early life**

*Poster Presenter:* Olivia Fonseca Souza (Brazil)

I.128 **IgE class switch recombination and differentiation into plasma cells are regulated by PP2A family molecule in human peripheral blood B cells**

*Poster Presenter:* Kano Tanabe (Japan)

I.129 **B cell differentiation in the germinal centre reaction**

*Poster Presenter:* Ann-Kathrin Schnormeier (Germany)

I.130 **microRNAs are dispensable for mature B cell survival, but are critical for their differentiation and function**

*Poster Presenter:* Naythan Dcunha (Israel)

I.131 **The role of OxPhos during early B cell development**

*Poster Presenter:* Ann-Kathrin Himmelreich (Germany)

I.132 **The effect of mitochondrial Ca<sup>2+</sup> abundance on early B cell development**

*Poster Presenter:* Svenja Kovacic (Germany)

I.133 **Structure of the B-Cell Repertoire in a Camelid Species, *Lama pacos***

*Poster Presenter:* Liubov Bufeeva (Russian Federation)

*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 1**

*Chair:* Maria Sibilia (Austria)

*Chair:* Sergey Deyev (Russian Federation)

I.134 **A retrospective analysis of positive paraneoplastic neurologic syndrome antibody cases in a single medical center**

*Poster Presenter:* Mei-Jun Lai (Taiwan)

I.137 **IL-33 and IL-41 signaling in the crosstalk between cancer cells, fibroblasts, and immune cells**

*Poster Presenter:* Frauke Hoffmann (Germany)

I.139 **Targeting MCTP1/FYN-driven calcium signaling to overcome immunosuppression and therapy resistance in prostate cancer**

*Poster Presenter:* Yen-Nien Liu (Taiwan)

I.141 **Impact of CXCL12 gene polymorphism on breast cancer susceptibility and aggressiveness**

*Poster Presenter:* Kaouther Snoussi (Tunisia)

I.143 **Adenosine increases PD-L1 expression in mesenchymal stromal cells derived from cervical cancer by interaction with A<sub>2A</sub>R/A<sub>2B</sub>R and TGF- $\beta$  production**

*Poster Presenter:* Martha Cecilia Moreno-Lafont (Mexico)

I.144  **$\beta$ 2 adrenergic receptor signaling promotes pro-metastatic niche formation and cancer metastases in the liver**

*Poster Presenter:* Yixuan Zhang (China)

I.146 **Lymphoid organoids with different structural patterns in murine serosa-associated adipose tissues**

*Poster Presenter:* Xinkai Jia (Hungary)

I.147 **Analysis of bone marrow adipose tissue in multiple myeloma patients**

*Poster Presenter:* Chaimae Nouasria (Morocco)

I.148 **The Zinc transporter protein ZIP4 enhances chemoresistance and induces M2 macrophage polarization in gastric cancer**

*Poster Presenter:* Yuanyuan Lu (China)

I.149 **Investigating the anticancer mechanisms of 3-hydroxy- $\beta$ -ionone from *Moringa oleifera* leaves in triple-negative breast cancer: apoptosis induction and EMT inhibition through TGF- $\beta$ /Smad pathway**

*Poster Presenter:* Pornsuda Sutana (Thailand)

I.150 **Evaluation of SNP genetic variants in MICA genes in a mexican cohort associated with breast cancer**

*Poster Presenter:* Oscar Yair Rodriguez Ruiz (Mexico)

I.151 **Defining spatial circuits governing acute myeloid leukemia blasts fate within the bone marrow microenvironment**

*Poster Presenter:* Jyoti Kode (India)

I.152 **Tumorous cholesterol biosynthesis curtails anti-tumor immunity by preventing mTOR-TFEB-mediated lysosomal degradation of PD-L1**

*Poster Presenter:* Weinan Guo (China)

I.153 **OMIP-106: A 30-color panel for analysis of check-point inhibitory networks in the bone marrow of acute myeloid leukemia patients**

*Poster Presenter:* Jan Musil (Czech Republic)

*Poster Walk*

12:15 - 13:45

Poster Area

**Immunity across ages**

*Chair:* Birgit Weinberger (Austria)

*Chair:* Lucas Secchim Ribeiro (Bonn, Germany)

I.296 **Longevity-associated BPIFB4 gene mitigates inflammation in a platelet CD47-dependent manner**

*Poster Presenter:* Elena Ciaglia (Italy)

I.297 **Monocytes and macrophage phenotype and functions in aging and in older T2DM subjects**

*Poster Presenter:* Tamas Fulop (Canada)

I.298 **Senescent CD57<sup>+</sup>CD8<sup>+</sup> memory T cells exhibit enhanced il-15-induced NK-like cytotoxicity**

*Poster Presenter:* Saerom Kweon (Korea, Republic of)

I.299 **Unraveling senescence dynamics in human naïve CD8<sup>+</sup> T cells**

*Poster Presenter:* Luca Pangrazzi (Austria)

I.300 **Building a comprehensive platform to investigate molecular adaptive immune aging and potential interventions**

*Poster Presenter:* Sophie K Lindenberg (Germany)

I.301 **Pyroptosis dysregulation boosts aging-associated metabolic and behaviour drawback**

*Poster Presenter:* Gabriela C. De Paula (Switzerland)

I.303 **Circulating T cell immunosenescence is poorly reflected amongst tissue-resident T cells in healthy skin: preliminary findings from a**

**clinical study**

*Poster Presenter:* Noushin Zibandeh (United Kingdom)

I.304 **Training improves antimicrobial innate immune defenses in aged mice**

*Poster Presenter:* Thierry Roger (Switzerland)

I.305 **Revealing the unique features and age-related changes of B cell immunity in the long-lived rodent *Spalax galili***

*Poster Presenter:* Aleksei Mazalov (Russian Federation)

I.306 **Single-cell transcriptomic analysis of T-lymphocytes isolated from peripheral blood of HGPS patients**

*Poster Presenter:* Daria Pleteneva (Russian Federation)

I.307 **Chronic stress fine-tunes the transcriptomics of splenic T cells in aged dirty mice**

*Poster Presenter:* Chinna Susan Philip (Estonia)

I.308 **Modeling immunological resilience during menopause in response to chemotherapeutic stress using organ-on-chip technology**

*Poster Presenter:* Anna-Sophie Schlemmer (Germany)

I.309 **Effect of age and sex in leukocyte immunophenotyping in the general adult population: the Rhineland Study**

*Poster Presenter:* Lucas Secchim Ribeiro (Germany)

I.311 **Impact of IL-11 on mitochondrial function in keratinocytes during senescence**

*Poster Presenter:* Anthony Gabry (Brazil)

I.312 **Bayesian networks and deconvolution methods to study the influence of aging and chronic diseases on the immune system**

*Poster Presenter:* José Basílio (Austria)

I.314 **Integrated single-cell omics reveal quantitative, qualitative, and functional heterogeneity in CD4<sup>+</sup> T cell responses to primary mRNA-1273 COVID-19 vaccination in older adults**

*Poster Presenter:* Yvonne Dogariu (Netherlands)

**Poster Walk**

12:15 - 13:45

Poster Area

**Immunometabolism**

*Chair:* Luke O'Neill (Ireland)

*Chair:* Stefano Angiari (Austria)

I.315 **Intermittent fasting promotes alternative metabolic fluxes leading to memory CD8<sup>+</sup> T cell development and anti-tumor immunity**

*Poster Presenter:* Da-Jeong Park (Korea, Republic of)

I.316 **Cardiac macrophages with enhanced OXPHOS activities drive myocardial regeneration following ischemic injury**

*Poster Presenter:* Kai-Lin Cheng (Taiwan)

I.317 **Impact of fever on mitochondrial and effector functions of T helper 2 cells**

*Poster Presenter:* Bianca Thoma (Germany)

I.318 **Pattern recognition receptors and glucose transporters in innate immune cells: insights into chronic low-grade inflammation in childhood obesity**

*Poster Presenter:* Juliana A. S. Estanislau (Brazil)

I.319 **Generation of circulating foamy phagocytes displays pro-atherosclerotic risk in dyslipidemia**

*Poster Presenter:* Yu-Ping Hung (Taiwan)

I.321 **Exhausted primary human monocytes express a paradoxal profile, with coexisting pro-inflammatory and immunosuppressive states, persistent IL-6 production and sesescence markers**

*Poster Presenter:* Marcelo Damas (Brazil)

I.322 **Targeting the PDK/PDH axis modulates neutrophil and smooth muscle cell pathological responses and prevents abdominal aortic aneurysm formation**

*Poster Presenter:* Andrietta Grentzmann (Denmark)

I.323 **Targeting glutamine metabolism mitigates Foxp3-deficiency mediated disease**

*Poster Presenter:* Mohammad Adeel Zafar (United States)

I.324 **Aryl hydrocarbon receptor deficiency enhances glycolysis and promotes pro-inflammatory macrophage polarization under hypoxia**

*Poster Presenter:* Saeed Mohammadi (Oman)

I.325 **Metabolic profile of Calcium-macrophages: Fatty acid consumption is key to differentiation and maturation**

*Poster Presenter:* Syamantak Basu (Germany)

I.326 **Correlation of CX3CL1 with immunoinflammatory markers of metabolic syndrome: a case-control study**

*Poster Presenter:* Eli Mohapatra (India)

I.328 **Dysfunction of the proteasome subunit PSMB5 in adipocytes induces lipodystrophy with autoinflammation**

*Poster Presenter:* Junko Morimoto (Japan)

I.329 **High fat low carbohydrate diet is linked to CNS autoimmunity protection**

*Poster Presenter:* Duan Ni (Australia)

I.330 **Androgen-dependent atheroprotective immunity mediated by interferon- $\gamma$  and VLDL reduction**

*Poster Presenter:* Yinda Yu (Sweden)

I.331 **Systemic metabolism regulates T cell ferroptosis susceptibility and functional dynamics**

*Poster Presenter:* Di Yu (Australia)

I.332 **Pathogenic genetic and environmental interactions: the potential of altered diets to promote intestinal inflammation by dysregulating intestinal  $\gamma\delta$  T cells**

*Poster Presenter:* Vivien Kohlhaas (United Kingdom)

I.333 **Host bile acid metabolism mediates protection from LCMV-induced hepatitis**

*Poster Presenter:* Felix Richter (Austria)

*Poster Walk*

12:15 - 13:45

Poster Area

### **Infectious diseases 1**

*Chair:* Renan V. H. de Carvalho (La Jolla/San Diego, United States)

I.338 **Influence of the infection by *Mycobacterium tuberculosis* on the host's ability to control viral superinfection**

*Poster Presenter:* Joan Fine (France)

I.339 ***Chlamydia caviae* infection in human epithelial lung cells**

*Poster Presenter:* Tamara Weinmayer (Austria)

I.341 **Gp130 signaling in pericytes protects from pulmonary fibrosis via regulating fibrotic neutrophils activation**

*Poster Presenter:* Yingying Zhang (China)

I.342 **Intranasal BCG immunization protects against *Streptococcus pneumoniae* through the alteration of macrophage activity**

*Poster Presenter:* Valentin Sencio (France)

I.343 **The Role of IL-17A in anti-capsular immune responses and protection against *Streptococcus pneumoniae***

*Poster Presenter:* Analía Rial (Uruguay)

I.344 **Neutrophil adhesion to vessel walls impairs pulmonary circulation in COVID-19 pathology**

*Poster Presenter:* Hiroshi Ueki (Japan)

I.345 **The bronchoalveolar lavage fluid CD44 as a marker for pulmonary fibrosis in diffuse parenchymal lung diseases**

*Poster Presenter:* Vladimir Leksa (Slovakia)

I.346 **In situ T-cell responses to *Bordetella pertussis* and Influenza-A infections**

*Poster Presenter:* Anna Kratochvilova (Czech Republic)

I.347 **Irg1 is a master regulator of *Mycobacterium tuberculosis* replication in macrophages**

*Poster Presenter:* Inès Leleu (France)

I.348 **Pediatric trends in *Mycoplasma pneumoniae* immunoglobulin M positivity (2022-2024): data from a Korean referral laboratory**

*Poster Presenter:* Hyejin Ryu (Korea, Republic of)

I.349 **Discovery and functional characterization of human monoclonal anti-*Pseudomonas aeruginosa* IgG1 antibodies**

*Poster Presenter:* Berit Olofsson (Sweden)

I.350 **Matrix metalloproteinases and their tissue inhibitors as predictive biomarkers for cardiac remodeling in chagas disease: insights into disease progression and prognostic potential**

*Poster Presenter:* Nayara I. Medeiros (Brazil)

I.351 **Optimization of influenza pseudovirus production for vaccine immunogenicity studies**

*Poster Presenter:* Geraldo S. Magalhaes (Brazil)

*Poster Walk*

12:15 - 13:45

Poster Area

**Microbiome and mucosal immunology**

*Chair:* Maria Rescigno (Italy)

*Chair:* Clarissa Campbell (Vienna, Austria)

I.376 **Health-associated bacteria species metabolites have a potent immune modulatory effect on STAT-3 pathway**

*Poster Presenter:* Jeimy Johana Jimenez Loayza (Australia)

I.380 **Convergent SCFA and bile acid regulatory pathways in amelioration of murine allergic airway inflammation**

*Poster Presenter:* Miao-Tzu Huang (Taiwan)

I.381 **NFAT5-driven regulation of intestinal stem cells and microbiome composition prevents colitis progression**

*Poster Presenter:* Donghyun Kim (Korea, Republic of)

I.382 **Microbiome-mediated effect of synthetic food dyes on intestinal homeostasis**

*Poster Presenter:* Natalia Rzepka (Poland)

I.383 **Neutrophil extracellular traps impair vaginal barrier function and increase HIV acquisition in response to non-optimal bacteria species**

*Poster Presenter:* Marina Costa Fujishima (Canada)

I.384 **Germ free mice have increased susceptibility to HSV-2 due to restricted T and B cell subsets in the vaginal tract**

*Poster Presenter:* Nuzhat Rahman (Canada)

I.385 **AhR-dependent pathway-mediated modulation of IL-17A by *Lactobacillus reuteri* alleviates psoriasis symptoms in imiquimod-induced psoriatic mice**

*Poster Presenter:* Eun-Hye Hong (Korea, Republic of)

I.387 **How does birth shape immunity? A scoping review in progress on delivery mode, gut microbiota, and neonatal immune development**

*Poster Presenter:* Amira Cerimagic (Bosnia and Herzegovina)

I.388 **Club members only: KEAP1/NRF2 controls club cell development in human airway epithelium**

*Poster Presenter:* Jacob Storgaard (Denmark)

I.389 **Impacts of maternal microbial metabolites in fetal intestinal immune system development: insights from multi-species metabolomics**

*Poster Presenter:* Roselydiah Makunja (Finland)

I.390 **Antigen-specific mucosal IgA responses are induced by nasal immunization of *Staphylococcus aureus* membrane vesicles**

*Poster Presenter:* Tomomi Hashizume-Takizawa (Japan)

I.391 **Gut-resident Tregs (GTregs) ameliorate inflammatory bone loss under post-menopausal osteoporotic conditions**

*Poster Presenter:* Rupesh Kumar Srivastava (India)

I.392 **Inflammatory modalities shape the intestinal IgA repertoire via stochastic processes**

*Poster Presenter:* Kyeong-Hee Lee (Germany)

I.393 **Effect of gut mycobiome dysbiosis on host's T cell response during experimental colitis**

*Poster Presenter:* Bhawna Verma (India)

I.394 **Preterm Germ-Free Piglets Colonized with Fecal Infant Microbiota Containing *Klebsiella* spp**

*Poster Presenter:* Alla Splichalova (Czech Republic)

I.395 **Colonization of the preterm germ-free piglets with infant-derived synthetic microbiota**

*Poster Presenter:* Igor Splichal (Czech Republic)

#### Poster Walk

12:15 - 13:45

Poster Area

#### Infectious diseases 2

*Chair:* Viviane Boaventura (Salvador, Brazil)

*Chair:* Cristina Ribeiro de Barros Cardoso (Ribeirão Preto, Brazil)

I.354 **CSF-1R blockade to mitigate azithromycin-induced immunosuppression during intracellular *Shigella flexneri* infection**

*Poster Presenter:* Reena Agrawal-Rajput (India)

I.355 **Monomeric RBD vs. S/S1-protein: which immunogen is better in a coronavirus vaccine?**

*Poster Presenter:* Ferran Tarrés-Freixas (Spain)

I.356 **Identification of cross-stage, cross-species malaria CD8<sup>+</sup> T cell antigens**

*Poster Presenter:* Caroline Junqueira (Switzerland)

I.357 **Impact of fusion loop mutations in Zika prM/E-based vaccines on immune mechanism of protection**

*Poster Presenter:* Kantinan Chuensirikulchai (Thailand)

I.360 **Exhaustion on *Leishmania amazonensis* and *Leishmania braziliensis* infection**

*Poster Presenter:* Herbert Leonel de Matos Guedes (Brazil)

I.361 **Peripheral blood single-cell landscape of tuberculosis patients in the context of disease severity and strain-specific immune memory**

*Poster Presenter:* Laura Zaragoza-Infante (Switzerland)

I.364 **Decreased *Chlamydia muridarum* shading of the genital tract and restoration of protective immune responses in a beta2-adrenergic receptor knockout stress mouse model**

*Poster Presenter:* Tesfaye Belay (United States)

I.365 **Evaluation of genes that promote the persistence of *Salmonella Typhimurium* within B cells**

*Poster Presenter:* Rosario Campos Mojena (Mexico)

I.366 **Thymic atrophy induced by *Plasmodium berghei* ANKA and *Plasmodium yoelii* 17XL infection**

*Poster Presenter:* Gerardo Manuel Corral-Ruiz (Mexico)

I.367 **HLA-II peptide-binding repertoire size shapes humoral immune responses and infection risk**

*Poster Presenter:* Máté Manczinger (Hungary)

I.369 **Distinct neutrophil subsets drive sepsis progression in ICU: associations with specific clinical conditions and blood analyte levels**

*Poster Presenter:* Anirban Sengupta (Sweden)

I.370 **C-C motif chemokine receptor 2 and 7 synergistically control inflammatory monocyte recruitment but the infecting virus dictates monocyte function in the brain**

*Poster Presenter:* Clayton Winkler (United States)

I.371 **Post sepsis exercise therapy enhances CD4 T cell recovery in the lung**

*Poster Presenter:* Meihong Deng (United States)

I.373 **Cervical mucosal inflammation expands functional polymorphonuclear myeloid-derived suppressor cells**

*Poster Presenter:* Daan K.J. Pieren (Netherlands)

I.374 **Association of Redox Modulation with Suppression of Aim2 Inflammasome in *Francisella tularensis*-Infected Macrophages**

*Poster Presenter:* Meenakshi Malik (United States)

I.375 **A systems biology approach for targeting intracellular persistence: drug combinations and host interactions**

*Poster Presenter:* Alexandra Tietze (Germany)

*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 5***Chair:* Nilika Bhattacharya (Phoenix, United States)*Chair:* Ayman Oweida (Canada)

I.221 **Decoding T cell fate of exhausted and regulatory T cells in solid tumors via CRISPR screening**

*Poster Presenter:* Andrea J. Manrique Rincon (United Kingdom)

I.222 **Influence of TLR4 genetic variants in breast cancer therapeutic outcome**

*Poster Presenter:* Doudou Georges Massar Niang (Senegal)

I.223 **Regulation of TIM-3 expression via NLRP3 and its impact on the phenotype and function of transformed cutaneous T-cell lymphoma cells**

*Poster Presenter:* Brenda Hernández-Rico (Mexico)

I.224 **Metastatic ovarian cancer cells promote the formation of peritoneal pre-metastatic niche by exosomal ICAM-2-dependent recruitment of plasmacytoid dendritic cells**

*Poster Presenter:* Alice S. T. Wong (Hong Kong)

I.225 **Characterization of the immune infiltrate and the 3D genome structure of a TNBC sample by sc-RNAseq and Hi-C**

*Poster Presenter:* Luis Rendon (Mexico)

I.226 **Skin cancer in patients with recessive dystrophic epidermolysis bullosa is associated with dysregulated T cells**

*Poster Presenter:* Iris Gratz (Austria)

I.227 **Cellular switch confers dynamic conformational changes induced through inflammasome signaling in NSCLC: Insights from Systems Immunology**

*Poster Presenter:* Riya Khilwani (India)

I.228 **Antigenic-specificity and functionality of NSCLC-infiltrating CD4+ T-cells**

*Poster Presenter:* Anastasia Altunina (Russian Federation)

I.229 **Lymphatic endothelial cells in draining lymph nodes of breast cancer patients undergo marked modifications**

*Poster Presenter:* Sirpa Jalkanen (Finland)

I.230 **Characterization of human monocyte subsets in acute lymphoblastic leukemia**

*Poster Presenter:* Melis Afacan (Turkey)

I.233 **Energetic cost of actin during T-cell migration and synapse assembly**

*Poster Presenter:* Nicolas Socquet-Juglard (France)

I.234 **Deciphering the role of DNA sensors other than cGAS in modulating the immune response in triple negative breast cancer**

*Poster Presenter:* Alka Bhatia (India)

I.236 **Deleterious role of "bystander" CD8<sup>+</sup> T cells producing Granzyme K in leukemia progression**

*Poster Presenter:* Lisa Aziez (France)

I.238 **Early T cells changes predict the response to CD3xBCMA bispecific antibodies in blood cancer**

*Poster Presenter:* Nicolas Deredec (France)

*Industry Session*

12:30 - 13:30

Hall M

**Industry session***Industry Session*

12:30 - 13:30

Hall N

**Industry session***Award Lecture*

12:30 - 13:15

Hall L1 &amp; L2

**EFIS Lifetime Achievement Award Lecture & Ceremony****Honoree: Klaus Rajewsky***Keynote Lecture*

13:45 - 14:15

Hall A

**Establishment of T cell homeostasis in response to food and intestinal microbiota***Chair: Wilfried Ellmeier (Austria)***Establishment of T cell homeostasis in response to food and  
intestinal microbiota**

13:45 - 14:15

*Keynote Speaker: Dan Littman (United States)**Rising Star*

14:15 - 15:00

Hall A

**Rising stars***Chair: Dan Littman (United States)***Time-resolved tissue immunity over the course of acute and chronic  
infection**

14:15 - 14:25

*Rising Star Awardee: Thomas Krausguber (Austria)***Deciphering human antibody repertoires against the microbiome in  
health and disease**

14:25 - 14:35

*Rising Star Awardee: Thomas Vogl (Austria)***A coordinated cellular network regulates intestinal tolerance**

14:35 - 14:45

*Rising Star Awardee: Ranit Kedmi (Israel)***Discussion**

14:45 - 15:00

*Keynote Lecture*

15:00 - 15:30

Hall A

**(Cancelled) Stromal regulation of immune cells in health and disease****Stromal regulation of immune cells in health and disease**

15:00 - 15:30

*Break*

15:30 - 16:00

Exhibition Hall

**Coffee Break (Exhibition Hall)***Plenary Lecture*

16:00 - 17:00

Hall E1

**The neuro-immune axis***Chair: Nicolas Gaudenzio (France)**Chair: Ulrich H. von Andrian (United States)***Immunoneception: How the brain senses and shapes immunity**

16:00 - 16:30

*Plenary Speaker: Asya Rolls (Israel)*

**Peripheral neuroimmune circuits: from fetal imprinting to skin inflammation**

16:30 - 17:00

*Plenary Speaker:* Nicolas Gaudenzio (France)*Plenary Lecture*

16:00 - 17:00

Hall E2

**Innate immunity and inflammation***Chair:* Caetano Reis e Sousa (United Kingdom)*Chair:* Osamu Takeuchi (Kyoto, Japan)**Dendritic cell-mediated sensing of dead cells in immunity to cancer**

16:00 - 16:30

*Plenary Speaker:* Caetano Reis e Sousa (United Kingdom)**Macrophages: Gatekeepers of Inflammatory Balance**

16:30 - 17:00

*Plenary Speaker:* Miriam Merad (United States)*Plenary Lecture*

16:00 - 17:00

Hall F1

**Primary immune deficiencies***Chair:* Isabelle Meyts (Belgium)*Chair:* Mohamed Ridha Barbouche (Manama, Bahrain)**Precision immunology in inborn errors of immunity: from bed to bench and back**

16:00 - 16:30

*Plenary Speaker:* Isabelle Meyts (Belgium)**Inborn errors of immunity: Cellular and molecular insights from overlapping phenotypes**

16:30 - 17:00

*Plenary Speaker:* Imen Ben-Mustapha (Tunisia)*Plenary Lecture*

16:00 - 17:00

Hall F2

**Vaccines and vaccine development***Chair:* Emma Slack (Switzerland)*Chair:* Ursula Wiedermann (Austria)**Sticking bacteria together: clues to the nature of optimal protective antibody responses**

16:00 - 16:30

*Plenary Speaker:* Emma Slack (Switzerland)**Immune-modulation by pseudotyped virus-like nanoparticles**

16:30 - 17:00

*Plenary Speaker:* Winfried Pickl (Austria)*Abstract Session after Plenary*

17:00 - 17:30

Hall E1

**The neuro-immune axis***Chair:* Nicolas Gaudenzio (France)*Chair:* Ulrich H. von Andrian (United States)**Trafficking of intestinal immune cells into the Central Nervous System in homeostasis and autoimmunity**

17:00 - 17:10

*Oral Abstract Presenter:* Carolina Prado (Chile)**Microbiota-induced sensory neuron hyperinnervation exacerbates itch**

17:10 - 17:20

*Oral Abstract Presenter:* Michel Enamorado (United States)

*Abstract Session after Plenary*

17:00 - 17:30

Hall E2

**Innate immunity and inflammation**

Chair: Caetano Reis e Sousa (United Kingdom)

Chair: Osamu Takeuchi (Kyoto, Japan)

**Pooled transcriptional factor CRISPR screening identifies ZNF207 as a novel regulator of M-CSF mediated macrophage survival and function**

17:00 - 17:10

Oral Abstract Presenter: Miaomiao Qiao (United Kingdom)

**Advanced imaging-based *ex vivo* immunoprofiling to stratify patients with rheumatoid arthritis**

17:10 - 17:20

Oral Abstract Presenter: Lisabeth Emilius (Austria)

*Abstract Session after Plenary*

17:00 - 17:30

Hall F1

**Primary immune deficiencies and clinical immunology**

Chair: Isabelle Meyts (Belgium)

Chair: Mohamed Ridha Barbouche (Manama, Bahrain)

**First Human Cases of LT $\beta$ R Deficiency Characterized by Complete Lymph Node Aplasia and Impaired B-Cell Differentiation**

17:00 - 17:10

Oral Abstract Presenter: Bernhard Ransmayr (Austria)

**Global Swarm Learning: decentralized ecosystem for robust and secure data visiting in immunology-based cohorts**

17:10 - 17:20

Oral Abstract Presenter: Lucas Secchim Ribeiro (Germany)

**Cellular immunophenotypes are associated with heart-reactive antibody profiles in patients hospitalized for acute heart failure**

17:20 - 17:30

Oral Abstract Presenter: Boshra Afshar (Germany)

*Abstract Session after Plenary*

17:00 - 17:30

Hall F2

**Vaccines and vaccine development**

Chair: Emma Slack (Switzerland)

Chair: Ursula Wiedermann (Austria)

**Integrative mapping of pre-existing immune landscapes for vaccine response prediction**

17:00 - 17:10

Oral Abstract Presenter: Adriana Tomic (United States)

**Harnessing human immune organoid model for systemic and comparative analysis of clinically vaccine adjuvants**

17:10 - 17:20

Oral Abstract Presenter: Dandan Meng (China)

**20-year experience of mRNA/dendritic cell vaccination in cancer patients: survival benefit, association of clinical activity with type 1 T-lymphocyte response and synergy with checkpoint inhibitors**

17:20 - 17:30

Oral Abstract Presenter: Zwi Berneman (Belgium)

*Industry Session*

17:45 - 18:30

Hall N

**Industry session***Industry Session*

17:45 - 18:30

Hall L1 &amp; L2

**Industry session**

*Industry Session*

17:45 - 18:30

Hall L3

**Industry session**

*Industry Session*

17:45 - 18:30

Room 1.34

**Industry session**

**Wednesday, 20. August 2025***Symposium*

08:30 - 10:00

Hall A

**Emerging roles of eosinophils and mast cells in health and disease***Chair:* Ariel Munitz (Israel)*Chair:* Caterina Vizzardelli (Vienna, Austria)**Transcriptional Regulation of Eosinophils in the Tumor Microenvironment**

08:30 - 08:55

*Symposium Speaker:* Ariel Munitz (Israel)**Phenotypic adaptations and senescence of mast cells in tumor microenvironment**

08:55 - 09:20

*Symposium Speaker:* Claudia González-Espinosa (Mexico)**Mast cells suppress itch and protect skin barrier integrity via tryptase**

09:20 - 09:45

*Symposium Speaker:* Thomas Plum (Germany)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall E1

**Haematopoiesis and immune cell development***Chair:* Juan Carlos (JC) Zúñiga-Pflücker (Canada)*Chair:* Xiaoxiao Jia (Beijing, China)**The hidden predictors of human haematopoietic clonal fate**

08:30 - 08:55

*Symposium Speaker:* Shalin Naik (Australia)**Transcriptional network dynamics in early T cell development**

08:55 - 09:20

*Symposium Speaker:* Ellen Rothenberg (United States)**Human T cell fate decisions through lineage tracing, an evolutionary notch response waltz**

09:20 - 09:45

*Symposium Speaker:* Juan Carlos (JC) Zúñiga-Pflücker (Canada)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall E2

**Host - pathogen interaction***Chair:* Laura Cook (Melbourne, Australia)*Chair:* Rhiannon Bolton (Brisbane, Australia)**Bioenergetics in viral infection**

08:30 - 08:55

*Symposium Speaker:* Andreas Bergthaler (Austria)**Reviving resilience: impaired immune functions that increase risk of secondary infections following critical illness**

08:55 - 09:20

*Symposium Speaker:* Laura Cook (Australia)**Immune surveillance of the liver**

09:20 - 09:45

*Symposium Speaker:* Matteo Iannaccone (Italy)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall F1

**Immune dysregulation in autoimmunity***Chair:* Lucy Walker (United Kingdom)*Chair:* Jocelyn Carolina Pérez Lara (México City, Mexico)**Antiinflammatory effects of glucocorticoids**

08:30 - 08:55

*Symposium Speaker:* Gerhard Krönke (Germany)**Tissue-resident T cells**

08:55 - 09:20

*Symposium Speaker:* Georg Stary (Austria)**Costimulation blockade in the regulation of autoimmune diseases**

09:20 - 09:45

*Symposium Speaker:* Lucy Walker (United Kingdom)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall F2

**Basic approaches and challenges in transplantation immunology***Chair:* Megan Sykes (United States)*Chair:* Rawan Kawach (Ulm, Germany)**Cell-based therapeutic approaches for modulating alloimmune response for transplantation**

08:30 - 08:55

*Symposium Speaker:* Christine Falk (Germany)**Molecular markers for monitoring graft survival following solid organ transplantation**

08:55 - 09:20

*Symposium Speaker:* Narinder Mehra (India)**Induction of immune tolerance to kidney allografts and xenografts.**

09:20 - 09:45

*Symposium Speaker:* Megan Sykes (United States)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall M

**Inborn errors of immunity***Chair:* Azzeddine Tahiat (Algiers, Algeria)*Chair:* Miriam Merad (United States)**Immunedysregulation through the prism of inborn errors of immunity**

08:30 - 08:55

*Symposium Speaker:* Azzeddine Tahiat (Algeria)**Approach to patients with inborn errors of immunity**

08:55 - 09:20

*Symposium Speaker:* Nima Rezaei (Iran)**The genetic landscape of IEI in highly consanguineous MENA region populations and its contribution to their classification**

09:20 - 09:45

*Symposium Speaker:* Mohamed Ridha Barbouche (Bahrain)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall N

**Mucosal immunology***Chair:* Maria Rescigno (Italy)*Chair:* Genta Furuya (Tokyo, Japan)*Chair:* Vivien Kohlhaas (London, United Kingdom)**Microbiome and gut inflammation**

08:30 - 08:55

*Symposium Speaker:* Maria Rescigno (Italy)

**Host-microbiota interaction for the maintenance of intestinal homeostasis**

08:55 - 09:20

*Symposium Speaker:* Kiyoshi Takeda (Japan)

**Aberrant microbial-host interaction in Inflammatory Bowel Disease**

09:20 - 09:45

*Symposium Speaker:* Janneke Samsom (Netherlands)

**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall L1 & L2

**Tumor Immunity and Immunotherapy (FIMSA)**

*Chair:* Amit Awasthi (India)

*Chair:* Osamu Takeuchi (Kyoto, Japan)

**Regulatory B cells and tumor immunity**

08:30 - 08:50

*Society Symposium Speaker:* Yiwei Chu (China)

**Differentiation and function of Tc17 cells in cancer**

08:50 - 09:10

*Society Symposium Speaker:* Yeonseok Chung (Korea, Republic of)

**Understanding the generation and function of Th9 cells in inflammatory conditions**

09:10 - 09:30

*Society Symposium Speaker:* Amit Awasthi (India)

**Interaction of heterogeneous immune cell populations in the tumour microenvironment of people with colorectal cancer - potential for individualised therapy**

09:30 - 09:50

*Society Symposium Speaker:* Roslyn Kemp (New Zealand)

*Symposium*

08:30 - 10:00

Hall L3

**Structural and functional features of allergens: more than just IgE-binding antigens (NOM committee)**

*Chair:* Alexandra Santos (London, United Kingdom)

**Nomenclature versus allergic disease: minor allergens as major immunogens**

08:30 - 08:50

*Symposium Speaker:* Alain Jacquet (Thailand)

**Bacterial and fungal allergens: the flip side of host-pathogen interaction**

08:50 - 09:10

*Symposium Speaker:* Uta Jappe (Germany)

**Antibody recognition of structurally unrelated antigens: fact or fiction in allergy? (Pro)**

09:10 - 09:30

*Symposium Speaker:* Christian Radauer (Austria)

**Antibody recognition of structurally unrelated antigens: fact or fiction in allergy? (Con)**

09:30 - 09:50

*Symposium Speaker:* Ronald van Ree (Netherlands)

*Break*

10:00 - 10:30

Exhibition Hall

**Coffee Break (Exhibition Hall)**

**Abstract Session**

10:30 - 12:00

Hall A

**Allergy**

Chair: Carole A. Oscheritzian (Columbia, United States)  
 Chair: Wolfgang Pfützner (Marburg, Germany)

**Engineering and characterization of a recombinant cat allergy vaccine for allergen-specific immunotherapy**

10:30 - 10:38

Oral Abstract Presenter: Daria Trifonova (Austria)

**Phenotypically and functionally distinct Th2 cell subpopulations in patients with birch pollen allergy**

10:38 - 10:46

Oral Abstract Presenter: Wolfgang Pfützner (Germany)

**Pipeline for allergen agnostic isolation and characterisation of human IgE**

10:46 - 10:54

Oral Abstract Presenter: Eric Franciskovic (Sweden)

**Aggregation geometry and signaling efficiency of the high affinity receptor for IgE (FcεRI) depend on IgE occupancy and antigen valency**

10:54 - 11:02

Oral Abstract Presenter: Birgit Linhart (Austria)

**Characterization of IgE-Producing B Cells in Birch Pollen Allergy: A Focus on Seasonal Immune Responses**

11:02 - 11:10

Oral Abstract Presenter: Maria Byazrova (Russian Federation)

**Diagnosis of genuine allergic sensitization to *Blomia tropicalis* and *Dermatophagoides pteronyssinus* with micro-arrayed allergen molecules**

11:10 - 11:18

Oral Abstract Presenter: Nishelle Dsouza (Austria)

**The adaptive immune response to *Staphylococcus aureus* serine protease-like protein B reinforces the skin inflammation in patients with atopic dermatitis**

11:18 - 11:26

Oral Abstract Presenter: Lennart Roesner (Germany)

**Human mast cells developed in NSG-Tg(hu-mSCF) mice degranulate upon challenge with Bet v 1**

11:26 - 11:34

Oral Abstract Presenter: Caterina Vizzardelli (Austria)

**Enhanced & selective priming of allergen-specific IgE B cells in secondary recall response**

11:34 - 11:42

Oral Abstract Presenter: Mohammed Zghaebi (Austria)

**Basophils promote the resolution of acute respiratory distress syndrome through IL-4 production**

11:42 - 11:50

Oral Abstract Presenter: Kensuke Miyake (Japan)

**Endogenous retroelements promote intestinal homeostasis and tolerance to dietary antigens**

11:50 - 11:58

Oral Abstract Presenter: Claudia A. Rivera Cifuentes (United States)

**Abstract Session**

10:30 - 12:00

Hall E1

**Effector mechanisms in cancer**

Chair: Maria Sibilia (Austria)  
 Chair: Nilika Bhattacharya (Phoenix, United States)

**Immunoregulatory double negative B cells suppress cytotoxic T cell function in renal cell carcinoma**

10:30 - 10:38

Oral Abstract Presenter: Zara Baig (United Kingdom)

**Tissue-colonizing disseminated tumor cells secrete prostaglandin E2 to promote NK cell dysfunction and evade anti-metastatic**

10:38 - 10:46

**immunity***Oral Abstract Presenter:* Anna-Marie Pedde (Germany)**A new IL-8 humanized mouse model to dissect the role of IL-8 in immunotherapy**

10:46 - 10:54

*Oral Abstract Presenter:* Viktoria Valkovskaia (Sweden)**Tissue-Dependent Dichotomy in IL-15 Mediated Anti-Tumor Immunity to Colorectal Cancer**

10:54 - 11:02

*Oral Abstract Presenter:* Marina Yakou (Australia)**The nuclear receptor NR2F6 acts as a negative regulator of NK cell-mediated tumor immunity**

11:02 - 11:10

*Oral Abstract Presenter:* Johannes Woelk (Austria)**Elucidating mechanisms by which TRPS1 maintains Treg stability and limits anti-tumor immunity**

11:10 - 11:18

*Oral Abstract Presenter:* Nilika Bhattacharya (United States)***Akkermansia muciniphila* protects mice from intestinal cancer via myeloid progenitor cell imprinting and attenuated IL-6 production**

11:18 - 11:26

*Oral Abstract Presenter:* Ekaterina Gubernatorova (Russian Federation)**Limiting bone marrow chimerism impairs thymic cell competition and causes leukemia**

11:26 - 11:34

*Oral Abstract Presenter:* Vera Martins (Portugal)**Highly multiplexed 2D and 3D imaging uncovers leukemia-induced immune dysregulation and vascular immaturity in the bone marrow microenvironment**

11:34 - 11:42

*Oral Abstract Presenter:* Lanzhu Li (Germany)*Abstract Session*

10:30 - 12:00

Hall E2

**Immunity to viruses part II***Chair:* Nafiseh Ghobakhloo (Edmonton, Canada)*Chair:* Wilfried Posch (Innsbruck, Austria)**ART loaded in liposomes with immunomodulatory properties: effect on viral inhibition and activation of the innate immune system**

10:30 - 10:38

*Oral Abstract Presenter:* Mohammed Rafii-El-Idrissi Benhnia. (Spain)**Prophylactic ChAdOx1/MVA-based HTI vaccination induces strong, broad *de-novo* CD8 T cell responses of elevated functional avidity in PWoH**

10:38 - 10:46

*Oral Abstract Presenter:* Thuong Nguyen (Spain)**Modulation of TCR signaling events impact HIV reservoir dynamics**

10:46 - 10:54

*Oral Abstract Presenter:* Riley Greenslade (Canada)**Effect of latent MCMV infection on the development of metabolic dysfunction-associated steatohepatitis**

10:54 - 11:02

*Oral Abstract Presenter:* Woomi Jung (Korea, Republic of)**Vaccination with the recombinant preS-based hepatitis B virus vaccine VVX001: Results from a phase II clinical trial**

11:02 - 11:10

*Oral Abstract Presenter:* Inna Tulaeva (Austria)**A unified immune metric of functional cure for chronic hepatitis B**

11:10 - 11:18

*Oral Abstract Presenter:* Qiyi Zhao (China)**Limiting the IRF-1 response in intravaginal CD4+ cells could offer a promising strategy to prevent the systemic spread of HIV-1 infection**

11:18 - 11:26

*Oral Abstract Presenter:* Ruey-Chyi Su (Canada)

<b>Chronic nasal neutrophilic inflammation in adults living with HIV on suppressive antiretroviral therapy</b>	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Joseph Aston Phiri (Malawi)	
<b>Discovery of neutralising antibodies against hantaviruses and their cognate epitopes to inform vaccine design</b>	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Simon Kimuda (United Kingdom)	
<i>Abstract Session</i>	
10:30 - 12:00	Hall F1
<b>Autoimmune diseases part I</b>	
<i>Chair:</i> Michael Bonelli (Austria)	
<i>Chair:</i> Fatma Betul Oktelik (Boston, Turkey)	
<i>Chair:</i> Günter Steiner (Austria)	
<b>Therapeutic modulation of endoplasmic reticulum amino peptidase 1 (ERAP1) in cancer and autoimmunity</b>	10:30 - 10:38
<i>Oral Abstract Presenter:</i> Samantha Bucktrout (United Kingdom)	
<b>Targeted neutrophil extracellular trap (NETs) inhibition with a nuclear penetrating antibody reduces inflammation and kidney damage in autoimmune vasculitis</b>	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Kim Maree O'Sullivan (Australia)	
<b>Crosstalk between NK cells and macrophages in Pemphigus Vulgaris: implications for therapeutic strategies</b>	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Vishakha Hooda (India)	
<b>An integrative immunoinformatics analysis uncovers infectious pathogen and gut microbiome-driven molecular mimicry in Autoimmune Hemolytic Anemia</b>	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Pratyusha Patidar (India)	
<b>Exploring potential of anti-hyperglycemic benefits of BCG vaccine in streptozotocin induced diabetic animal models</b>	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Sunil Korde (India)	
<b>Multi-OMICs based biomarkers for Autoimmune Hemolytic Anaemia and Immune Thrombocytopenia Autoimmune Diseases</b>	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Tulika Prakash Srivastava (India)	
<b>Presence of HLA B27 affects monocyte function in ERA category of Juvenile Idiopathic Arthritis</b>	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Shivika Guleria (India)	
<b>Enhancer RNA m<sup>6</sup>A modification controls SIRP<math>\alpha</math> signaling strength in intestinal macrophages to ensure adequate efferocytosis for inflammation resolution</b>	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Qingqing Wang (China)	
<b>TLR7-9 adaptors TASL and TASL2 mediate IRF5-dependent antiviral responses and autoimmunity</b>	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Manuele Rebsamen (Switzerland)	
<b>Therapeutic modulation of myocardial neutrophil polarization prevents cardiomyocyte damage and improves cardiac function in autoimmune myocarditis</b>	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Alexandru Schiopu (Sweden)	
<b>Modulation of membrane complement regulatory proteins (mCreg) decay accelerating factor (mDAF) and membrane cofactor protein(mMCP) by cytokines in Rheumatoid arthritis</b>	11:50 - 11:58
<i>Oral Abstract Presenter:</i> Nibhriti Das (India)	

*Abstract Session*

10:30 - 12:00

Hall F2

**Vaccine and antibody design**

Chair: Joshua Tobias (Vienna, Austria)

Chair: Anirban Sengupta (Stockholm County, Sweden)

**WN-Neutralizing plasma versus placebo for hospitalized patients with West Nile fever - a double-blind randomized controlled trial**

10:30 - 10:38

Oral Abstract Presenter: Gili Regev-Yochay (Israel)

**A chimeric vaccine based on a single fusion protein shows induction of broadly neutralizing antibodies and protective effect against Omicron infection in *in vivo* models**

10:38 - 10:46

Oral Abstract Presenter: Pia Gattlinger (Austria)

**B cells and T follicular helper cells as drivers of excellent immunogenicity and protection by HPV vaccines**

10:46 - 10:54

Oral Abstract Presenter: Eunice Kiamba (Gambia)

**T-cell immune response elicited by an MVA-based vaccine against Middle East Respiratory Syndrome in humans**

10:54 - 11:02

Oral Abstract Presenter: Leonie Mayer (Germany)

**Parenteral priming followed by mucosal boosting: An alternative approach to induce potent mucosal and systemic immune responses to a respiratory syncytial virus subunit vaccine**

11:02 - 11:10

Oral Abstract Presenter: Mina Zhiani (Canada)

**Polyepitope tandem mRNA-LNP vaccines present immunogenic potentials for inducing *de novo* and recall CD8<sup>+</sup> T cell responses against viruses or tumors**

11:10 - 11:18

Oral Abstract Presenter: Hoang Oanh Nguyen (France)

**Poly(allylamine hydrochloride)-based nanoparticles as adjuvants for systemic and mucosal vaccines**

11:18 - 11:26

Oral Abstract Presenter: Paola Lorena Smaldini (Argentina)

**Development of a safe, T cell-inducing heterologous vaccine against elephant endotheliotropic herpesvirus (EEHV): findings of a first-in-elephant proof-of-concept study**

11:26 - 11:34

Oral Abstract Presenter: Tanja Maehr (United Kingdom)

**CD154 in a subunit vaccine up-regulates IL-2 and IFN-gamma T cell responses against classical swine fever virus**

11:34 - 11:42

Oral Abstract Presenter: Yu-Chieh Chen (Taiwan)

*Abstract Session*

10:30 - 12:00

Hall M

**T cell development**

Chair: Ludger Klein (Germany)

Chair: Yu Gao (Stockholm, Sweden)

**Transcriptional Engineering of CAR-T cells for durable control and checkpoint blockade synergy in solid tumors**

10:30 - 10:38

Oral Abstract Presenter: Surojit Sarkar (United States)

**Role of transcriptional co-factor IRF2BP2 in activation and differentiation of CD8 T cells**

10:38 - 10:46

Oral Abstract Presenter: Barbara L. Morais de Oliveira Vieira (Brazil)

**GFI1-driven transcriptional and epigenetic programs maintain CD8<sup>+</sup> T cell stemness and persistence**

10:46 - 10:54

Oral Abstract Presenter: M. Zeeshan Chaudhry (Australia)

**APOBEC2 as a regulator of cell identity within the hematopoietic**

10:54 - 11:02

**system***Oral Abstract Presenter:* Christos Gkougkousis (Germany)**CD4 T cell-derived HBEGF blocks their differentiation into Th17 and prevents autoimmunity**

11:02 - 11:10

*Oral Abstract Presenter:* Kimaya Tekade (Germany)**Heterogeneity, genetic regulation and tissue specific properties of the thymic antigen presenting cell network**

11:10 - 11:18

*Oral Abstract Presenter:* Mark Chong (Australia)**Lamp2 connects the autophagy-lysosomal pathway in Thymic Epithelial Cells and regulates their role in CD4 T-cell selection, TCR repertoire formation and T-cell responses**

11:18 - 11:26

*Oral Abstract Presenter:* Nuno L. Alves (Portugal)**The interplay between RNA binding proteins ZFP36L1 and ZFP36L2 balances thymic epithelial cell differentiation to control thymus function**

11:26 - 11:34

*Oral Abstract Presenter:* Pedro Ferreira (Portugal)**Study of the expressed repertoires of the adaptive immune responses: example of mouse T cell receptors**

11:34 - 11:42

*Oral Abstract Presenter:* Myriam Croze (France)**Thymic development of human invariant Natural Killer T cells**

11:42 - 11:50

*Oral Abstract Presenter:* Naeimeh TAVAKOLINIA (Australia)*Abstract Session*

10:30 - 12:00

Hall N

**T cell activation***Chair:* Klaus Schmetterer (Austria)*Chair:* Stephan Jonas Holtkamp (Wuppertal, Germany)**Defining immune correlates of recurrent TB disease risk for targeted intervention**

10:30 - 10:38

*Oral Abstract Presenter:* Anele Gela (South Africa)**DUSP22 deficiency and UBR2 induction promote T-cell signaling and autoimmune disease**

10:38 - 10:46

*Oral Abstract Presenter:* Tse-Hua Tan (Taiwan)**ETS1 and its partners in molecular control of T cell quiescence**

10:46 - 10:54

*Oral Abstract Presenter:* Jong-Hwi Yoon (Korea, Republic of)**The serine/threonine kinase PIM3 acts as essential gatekeeper of T cell functions**

10:54 - 11:02

*Oral Abstract Presenter:* Tobias Frey (Austria)**Manipulating effector and memory fates in CD8+ T Cells: a novel Tpm transitional state and the role of TGF- $\beta$** 

11:02 - 11:10

*Oral Abstract Presenter:* Veronika Niederlova (Czech Republic)**Zc3h13 promotes T cell activation through snoRNA-mediated ribosome biogenesis**

11:10 - 11:18

*Oral Abstract Presenter:* Takuya Uehata (Japan)**Understanding the basis of LAG-3 mediated immune regulation**

11:18 - 11:26

*Oral Abstract Presenter:* Jan Petersen (Australia)**Glycocalyx engineering to modulate T cell activation**

11:26 - 11:34

*Oral Abstract Presenter:* Fauzia N. Izzati (Canada)**Th17 cells require the DNA repair sensor XPC to control oxidative DNA damage**

11:34 - 11:42

Oral Abstract Presenter: Jefferson Antonio Leite (Brazil)

*Abstract Session*

10:30 - 12:00

Hall L1 & L2

**Neuroimmunology**

Chair: Agata Mlynška (Vilnius, Lithuania)

Chair: Stefano Angiari (Austria)

**Immune regulatory Bile Acid Metabolites modulate Central Nervous System Autoimmunity**

10:30 - 10:38

Oral Abstract Presenter: Marika Falcone (Italy)

**Reduced PTEN facilitate IL-2 & IL-10 mediated expansion of CD4<sup>+</sup>CD25<sup>+</sup>Tregs in Guillain-Barré syndrome: implications for early clinical improvement**

10:38 - 10:46

Oral Abstract Presenter: Rasel Ahmed (Bangladesh)

**TNFR2 contributes to synaptic potentiation failure in hippocampal synapses and memory loss in a familial Alzheimer's disease mouse model**

10:46 - 10:54

Oral Abstract Presenter: Gustavo Pedraza-Alva (Mexico)

**ATP13A2 restrains macrophage NLRP3 activation to repress neurodegeneration via modulating mitochondrial homeostasis**

10:54 - 11:02

Oral Abstract Presenter: Meng Xia (China)

**Brainstem neurons control autoimmune CNS infiltration by GDF-15-GFRAL axis**

11:02 - 11:10

Oral Abstract Presenter: Jana K. Sonner (Germany)

**Origin, dynamics and function of sensory neurons associated macrophages (sNAMs) in neuropathic pain**

11:10 - 11:18

Oral Abstract Presenter: Conceição Elidianne Aníbal Silva (Brazil)

**AI-driven discovery of a novel neuroimmune axis in non-small cell lung cancer**

11:18 - 11:26

Oral Abstract Presenter: Zoey Zeyuan Ji (Hong Kong)

**KChIP3 foster neuroinflammation and synaptic dysfunction in Alzheimer's Disease**

11:26 - 11:34

Oral Abstract Presenter: Leonor Pérez-Martínez (Mexico)

**Diurnal coordination of immune processes primes the olfactory bulb's response to an intranasal immune challenge**

11:34 - 11:42

Oral Abstract Presenter: Gregory Pearson (United States)

**Context-depend modulation of neuroinflammation and CD4+ T cell activation by heated tobacco and cigarette smoke**

11:42 - 11:50

Oral Abstract Presenter: Pablo Scharf (Brazil)

**Site-directed antibodies reveal new possibilities in diagnosis and treatment of neurodegenerative diseases**

11:50 - 11:58

Oral Abstract Presenter: Vladka Čurin Šerbec (Slovenia)

*Abstract Session*

10:30 - 12:00

Hall L3

**B cells and antibodies**

Chair: Marta Rizzi (Austria)

Chair: Ola Grimsholm (Austria)

**CD molecules nomenclature 2024: antibody validation and expression profiling of immune system G protein-coupled receptors (GPCRs)**

10:30 - 10:38

Oral Abstract Presenter: Javier Fernández-Calles (Spain)

<b>Donor-specific IgE can amplify allospecific responses through its low affinity receptor CD23</b>	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Anna Marianne Weijler (Austria)	
<b>A B-cell cross-road between systemic and upper respiratory tract immunity</b>	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Eva Piano Mortari (Italy)	
<b>The ICOM discovery supports the dissociation activation model (DAM) of B cell activation</b>	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Michael Reth (Germany)	
<b>Liver-associated tertiary lymphoid structures support CD4 T cell-dependent B cell immunity in a mouse model of HBV pathogenesis</b>	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Cristian G Beccaria (Italy)	
<b>Multi-step antibody class switching in a primary human response is restricted after <i>IGHG2</i> and dependent on B cell maturation stage</b>	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Joseph Ng (United Kingdom)	
<b>Asparagine availability controls germinal center B cell homeostasis</b>	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Yavuz F. Yazicioglu (United Kingdom)	
<b>Anti-viral and anti-commensal antibody repertoires differ across human tissues</b>	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Tomer Hertz (Israel)	
<b>Clonal lineage tree analysis in surrogate light chain deficient mice reveals the existence of memory B cells in the mouse splenic marginal zone</b>	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Ola Grimsholm (Austria)	
<b>Immunological memory in a teleost fish: common carp IgM<sup>+</sup> B cells differentiate into memory and plasma cells</b>	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Justin Tze Ho Chan (Austria)	
<b>Polyreactive IgA's pattern recognition selectively inhibits the folate cycle of pathogenic bacteria</b>	11:50 - 11:58
<i>Oral Abstract Presenter:</i> Genta Furuya (Japan)	

**Poster Walk**

12:15 - 13:45

Poster Area

**Primary and secondary immunodeficiency**

Chair: Elisabeth Förster-Waldl (Austria)

Chair: Imen Ben-Mustapha (Tunisia)

II.456 **Finding NEMO's special role in Inborn Errors of Immunity**

Poster Presenter: Sara Fernández Hermira (Netherlands)

II.458 **IFIH1 mutation in a case of primary immunodeficiency presenting with EBV-related lymphoproliferation and GLILD: Singleton-Merten Syndrome**

Poster Presenter: Ceyda Tunakan Dalgiç (Turkey)

II.460 **Evaluation of a rapid screening test for IgG deficiency in primary immunodeficient patients**

Poster Presenter: Najla Mekki (Tunisia)

II.461 **Phenotypic and functional characteristics of a novel IRF8 variant**

Poster Presenter: Amir A. Sadighi Akha (United States)

II.462 **Duodenal T cell profiling in patients with primary antibody deficiencies: associations with enteropathy**

Poster Presenter: Semra Demir (Turkey)

II.463 **Expanding the boundaries of systemic autoinflammatory diseases: an updated summary from a Chinese referral cohort**

*Poster Presenter:* Sihao Gao (China)

II.464 **Clinical Spectrum of Artemis Deficiency: A retrospective analysis of 30 years**

*Poster Presenter:* Deniz Cagdas (Turkey)

II.465 **A novel dominant-negative CARD11 variant causes atopy and immunodeficiency syndrome**

*Poster Presenter:* Kim My Le (Finland)

II.466 **Effect of COVID-19 pandemic to health-related quality of life in patients with primary and secondary immunodeficiencies**

*Poster Presenter:* Matthaios Speletas (Greece)

II.468 **Two Faces of Artemis: Combined Immunodeficiency Presenting with Different Clinical Features**

*Poster Presenter:* Pinar Şahin (Turkey)

*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 2**

*Chair:* Jolanda de Vries (Netherlands)

*Chair:* Bo Huang (China)

II.152 **Prognostic value of pro- and anti-inflammatory cytokines in colorectal cancer**

*Poster Presenter:* Hana Khenine (Tunisia)

II.153 **Cancer-associated fibroblasts enhance protumoral behavior in cervical cancer cells independently of 17 $\beta$ -estradiol**

*Poster Presenter:* Jonathan René García Bernal (Mexico)

II.154 **The role of the antitumor GK-1 peptide in mediating tumor damage through mitochondrial dysfunction and ferroptosis in a murine model of breast cancer**

*Poster Presenter:* Laura Montero León (Mexico)

II.157 **Immune Cells in Prostate Cancer: Their Influence on Tumor Growth and Clearance**

*Poster Presenter:* Manoj Mishra (United States)

II.158 **Evaluating the significance of tumor-infiltrating lymphocytes and invasion depth in T1 bladder cancer**

*Poster Presenter:* Busra Yaprak Bayrak (Turkey)

II.159 **Mechanistic insights into barriers to immune cell activity across distinct immune phenotypes in solid tumors**

*Poster Presenter:* Manasa Srinivasan (India)

II.160 **Agonistic SLAMF7 (CD319) signals mediate human CD8 T-cell differentiation and responses against low affinity tumor associated antigens**

*Poster Presenter:* Monika Brunner-Weinzierl (Germany)

II.161 **Immunoregulatory role of B cells and their subtypes in bladder cancer: implications for therapeutic intervention**

*Poster Presenter:* K David Raja (India)

II.162 **ALOX15 induces CD39+ $\gamma$ 6 Treg polarization and promotes the progression of right-sided colon cancer**

*Poster Presenter:* Yang Zhan (China)

II.163 **Controllable release of immunogen for the induction of specific T**

**cell response**

*Poster Presenter:* Danuta Gutowska-Owsiaik (Poland)

II.164 **PD-L1-responsive nanoplatform for boosting chemo-immunotherapy in colorectal cancer**

*Poster Presenter:* Chunxia Su (China)

II.166 **Serum levels of adipokines, IL-6 and IL-8 in Mexican women with benign and malignant ovarian tumors**

*Poster Presenter:* Lizeth Montserrat Aguilar Vazquez (Mexico)

II.167 **Elucidating the contribution of B cells in the pathogenesis of metabolic dysfunction associated steatohepatitis (MASH) and its progression to hepatocellular carcinoma (HCC)**

*Poster Presenter:* Aysan Poursadegh zonouzi (Germany)

II.168 **Mapping T cell subsets and TME types in prostate cancer**

*Poster Presenter:* Kared Hassen (Norway)

II.169 **TAN heterogeneity shapes the immunotherapy efficacy in HCC patients varying in etiology**

*Poster Presenter:* Zhulin Chen (China)

II.170 **TGF $\beta$  as a major contributor to TAN pathogenicity and drives ICB resistance in MASH-HCC**

*Poster Presenter:* Rachael Julia Yuenyinn Tan (Hong Kong)

II.171 **A cancer-promoting CD8 $^{+}$  T cell subset that accumulates in aging**

*Poster Presenter:* Arya Biragyn (United States)

II.173 **Tyrosine kinase targeting uncovers oncogenic pathway plasticity in transmissible tasmanian devil cancers**

*Poster Presenter:* Anna Schönbichler (Austria)

*Poster Walk*

12:15 - 13:45

Poster Area

**Neuroimmunology**

*Chair:* Dan Littman (United States)

II.395 **Long-term use of rituximab increases T cell count in MS patients**

*Poster Presenter:* Gunnar Sigfús Björnsson (Iceland)

II.396 **Regulation of intercellular crosstalk by HuD in neuroinflammation**

*Poster Presenter:* Myeongwoo Jung (Korea, Republic of)

II.397 **Preschoolers born preterm at risk of development delay have lower neutrophil-to-lymphocyte ratio, transitional B cells and IP-10 than preschoolers with normal development**

*Poster Presenter:* Armida Ivette Bahena-Delgado (Mexico)

II.399 **Sorafenib induces systemic post-stroke immunomodulation of T cells under LPS-induced proinflammatory conditions**

*Poster Presenter:* Juliane Schulze (Germany)

II.400 **Antigen-specifically activated CD8 $^{+}$  and double-negative T cells accumulate in the brain of Alzheimer's disease mice**

*Poster Presenter:* Antje Vogelgesang (Germany)

II.401 **GDF-15 expression and signaling in neuroinflammation**

*Poster Presenter:* Audrey Sarah Kahn (Germany)

II.402 **Differential expression of SLAMF7 in multiple sclerosis: possible link to Epstein-Barr virus**

*Poster Presenter:* Carina Thomas (Germany)

II.403 **Investigating neurogenic inflammation in the nasal mucosa of Thai rhinitis patients**

*Poster Presenter:* Nathachit Limjunya Wong (Thailand)

II.404 **Inflammatory biomarkers in mental health: depression, anxiety and stress**

*Poster Presenter:* Luciana Camillo (Brazil)

II.405 **Analysis of biomarkers CK-MB, myoglobin, NT-ProBNP, CRP, hsCRP, IL-6, TNF- $\alpha$  and IL-8 and their correlation with mental disorders in hypertensive patients**

*Poster Presenter:* Fernanda de F Anibal (Brazil)

II.407 **The BrEndO mouse - a new mouse model for studying T cell-driven cerebral vasculitis and developing therapeutic approaches**

*Poster Presenter:* Manja Thiem (Germany)

II.408 **Immune Profiling of Human Vestibular Schwannoma Secretions Identifies TNF- $\alpha$  and TWEAK as Cytokines with Synergistic Potential to Impair Hearing**

*Poster Presenter:* Sasa Vasilijic (United States)

II.409 **C-type natriuretic peptide-mediated T cell regulation in autoimmune neuroinflammation**

*Poster Presenter:* Aneta Kolakowska (Germany)

II.410 **Investigating the role of the gut-microbiota-brain axis in the pathophysiology of depression**

*Poster Presenter:* Ana Miquelão (Brazil)

II.411 **Biomarkers: a perspective for the complementary diagnosis of depression and anxiety**

*Poster Presenter:* Fernanda de F Anibal (Brazil)

II.412 **Evaluation of cortisol levels and inflammatory biomarkers in substance-using patients admitted to a psychiatric hospital**

*Poster Presenter:* Fernanda Duarte (Brazil)

II.413 **Extracellular vesicles secreted by microglia during chronic virus infection can induce demyelinating disease in the central nervous system**

*Poster Presenter:* Julie Olson (United States)

*Poster Walk*

12:15 - 13:45

Poster Area

**Clinical immunology**

*Chair:* Tineke Cantaert (Phnom Penh, Cambodia)

II.214 **Measurement of 46 cytokines in peripheral blood of papillary thyroid cancer patients and healthy subjects with AI driven analysis to distinguish two groups**

*Poster Presenter:* Chy Hyun Cho (Korea, Republic of)

II.215 **Analysis of the relationship between NF- $\kappa$ B and cytokine gene expression in hematological malignancy: leveraging XAI and machine learning for small dataset insights**

*Poster Presenter:* Chy Hyun Cho (Korea, Republic of)

II.216 **Immunological responses among adults persistently negative for SARS-CoV-2 infection for ~2.5 years after emergence in South Africa**

*Poster Presenter:* Paballo P. Mosala (South Africa)

II.218 **Phenotypic and functional immune alterations in patients bearing urea cycle disorders**

*Poster Presenter:* Ruben Dario Motrich (Argentina)

II.219 **Post-transplant anti-HLA donor-specific antibodies (DSAs) in kidney recipients and their association with humoral rejection**

*Poster Presenter:* Ismahane Khelifa (Algeria)

II.221 **Identification of substrates of MBL-associated serine protease-1 (MASP-1) In human plasma using n-terminomics approach**

*Poster Presenter:* Sadhana Sharma (India)

II.223 **Evaluation of the development of netosis in psoriatic arthritis and its comparison with rheumatoid arthritis**

*Poster Presenter:* Aysegul Atak Yucel (Turkey)

II.224 **Neutrophil extracellular traps and serum Alpha-1 anti-trypsin in children with Familial Mediterranean Fever**

*Poster Presenter:* Kibriya FİDAN (Turkey)

II.227 **Interferon-related signature assessment in Aicardi-Goutières syndrome patients demonstrates involvement of additional inflammatory pathways**

*Poster Presenter:* Lucas Grinwis (Netherlands)

II.228 **Targeting *Candida* spp. with a Nanostructured Mannose-Binding Lectin: A New Antifungal Approach**

*Poster Presenter:* Patricia Moura (Brazil)

II.229 **Health quality and treatment satisfaction in IEI patients; not only IgRT but comorbidities**

*Poster Presenter:* Elif Karakoc Aydiner (Turkey)

II.230 **The role of autophagy in the development of obesity in a cohort of young adults from Mexico**

*Poster Presenter:* Gloria Guillermina Guerrero Manriquez (Mexico)

II.231 **Complement C1q and von Willebrand factor colocalize during blood clot formation in a microfluidic bleeding model**

*Poster Presenter:* Peymane Zahiroddini (Switzerland)

II.232 **Immunomodulatory effect of micro- and nanoplastic particles on human monocytes**

*Poster Presenter:* Hermann-Josef Thierse (Germany)

II.234 **Immunity of lipid-lowering drugs - how statins and PCSK9 inhibition shape immune phenotype and function**

*Poster Presenter:* Philipp Schatzlmaier (Austria)

#### *Poster Walk*

12:15 - 13:45

Poster Area

#### **Genetics and bioinformatics**

*Chair:* Helen McGuire (Australia)

*Chair:* Stefan Stoiber (Vienna, Austria)

II.253 **Deep Single-Cell Profiling Reveals Detailed Characterization of T-cell Subpopulations**

*Poster Presenter:* Oleg Suchalko (United Arab Emirates)

II.255 **Landscape of antigenic specificity of T cell receptors**

*Poster Presenter:* Roman Mungalov (Russian Federation)

II.256 **Identification of immunoregulatory factors linked to copy-number variations in neurodevelopmental disorders through an enhanced whole-genome sequencing bioinformatics pipeline**

*Poster Presenter:* Jiahong Sun (Hong Kong)

II.260 **Using amplicon sequencing to measure Treg-specific DNA methylation patterns**  
*Poster Presenter:* Tamara Kaufmann (Germany)

II.261 **FOXP3 expression in CD19+CD39+ and CD19+CD39- B cells and their potential suppressive effects**  
*Poster Presenter:* Abraham Cardenas-Juarez (Mexico)

II.262 **Rapid mRNA-based screening test for detecting leukemia cells in bone marrow of pediatric acute lymphoblastic leukemia patients**  
*Poster Presenter:* Jesus Garcia-Gomez (Mexico)

II.263 **The immunological landscape of the peripheral immune system during menstrual cycle**  
*Poster Presenter:* Lisa Holsten (Germany)

II.264 **Discovery of somatic mutations associated with clonally expanded T cells**  
*Poster Presenter:* Elizaveta Nikonova (Russian Federation)

II.265 **Pooled CRISPR Screening for Drug Target Discovery in Primary Human Monocyte-derived Cells**  
*Poster Presenter:* Anke Loregger (Austria)

II.266 **Harnessing the Nrf2-Selenoprotein Pathway to Prevent Ferroptosis and Inflammation in Stem Cell-Derived Retinal Ganglion Cells**  
*Poster Presenter:* Michael Siu-Lun Lai (Hong Kong)

II.268 **-786T/C Endothelial nitric oxide synthase gene polymorphism in childhood acute leukemia**  
*Poster Presenter:* Lydia Lamara Mahammed (Algeria)

II.269 **ENHANCING CRISPR GENE CORRECTION IN HEMATOPOIETIC STEM/PROGENITOR CELLS**  
*Poster Presenter:* Cecilia Fahlquist-Hagert (Norway)

II.270 **Label-Free Multiplexed Microarrays Based on Photonic Crystal Surface Mode Imaging**  
*Poster Presenter:* Igor Nabiev (France)

II.271 **Complement genetics in renal pathologies**  
*Poster Presenter:* Katarina Kouter (Slovenia)

**Poster Walk**

12:15 - 13:45

Poster Area

**Allergy**

*Chair:* Rudolf Valenta (Vienna, Austria)  
*Chair:* Nishelle Dsouza (Vienna, Austria)

II.001 **CD4+ T cell cross-reactivity towards locust tropomyosin in house dust mite-sensitized individuals**  
*Poster Presenter:* Katharina Siewert (Germany)

II.003 **Nanobody-based quantification of allergen load in ambient air samples**  
*Poster Presenter:* Sabine Flicker (Austria)

II.004 **Improving the in vitro detection of chemical-specific T cells: insights into p-phenylenediamine contact allergy**  
*Poster Presenter:* Marina Aparicio-Soto (Germany)

II.005 **Antibody, T cell and cytokine responses to cat albumin, Fel d 2, an important cross-reactive cat allergen**  
*Poster Presenter:* Zicheng Liu (Austria)

II.006 **Clinical Relevance of Immunologic Diagnosis of Shrimp Allergy in Adults**

*Poster Presenter:* Young-Min Ye (Korea, Republic of)

II.007 ***In vitro* differentiated human pathogenic Th2 cells as a new model for studying signaling requirements and transcriptional mechanisms driving T cell pathogenicity in allergic inflammation**

*Poster Presenter:* Verena Fuhrmann (Austria)

II.008 **Recombinant IgE-reactive functional can f 5 devoid of cross-reactive carbohydrate determinants**

*Poster Presenter:* Evgenii Kozlov (Russian Federation)

II.009 **Major cat allergen Fel d 4: structure and identification of a cross-reactive IgE-epitope**

*Poster Presenter:* Nikolina Todorovic (Austria)

II.010 **Climate-driven differences in molecular IgE sensitization profiles in allergic patients from Bahía Blanca and La Plata in Argentina**

*Poster Presenter:* Eszter Sarzsinszky (Austria)

II.011 **Macrophages from stressed mice lose their anti-inflammatory function via  $\beta$ 2-adrenergic receptor-induced epigenetic modifications in allergic inflammation of the skin**

*Poster Presenter:* Soichiro Yoshikawa (Japan)

II.012 **Microarray-based Measurement of Allergen-specific IgE-blocking IgG Reflects Clinical Efficacy of Vaccination with the Molecular Grass Pollen Vaccine BM32**

*Poster Presenter:* Ljiljana Anicic (Austria)

II.013 **Clinical cases of exacerbation of skin processes against of biological therapy**

*Poster Presenter:* Kseniia Riabova (Russian Federation)

II.014 **Diagnostic and Clinical Value of Biomarkers in Birch Pollen-Associated Allergic Rhinitis**

*Poster Presenter:* Olga Elisutina (Russian Federation)

II.015 **Diagnostic usefulness of IgE-recognizing epitope profile and IgE content specific to mixture of all epitopes defined in cow's milk allergens**

*Poster Presenter:* Yoshihiro Watanabe (Japan)

II.016 **Immunophenotyping of T Helper Cell Subsets in Chronic Rhinosinusitis Patients Undergoing Dupilumab Treatment**

*Poster Presenter:* Tuuliki Pomerants (Estonia)

II.017 **Comparison of natural and recombinant forms of allergens for allergy diagnosis**

*Poster Presenter:* Caroline Rohner (Austria)

II.018 **Clinical features of Stevens-Johnson syndrome and toxic epidermal necrolysis in an original retrospective study**

*Poster Presenter:* Rezeda Fayzullina (Russian Federation)

*Poster Walk*

12:15 - 13:45

Poster Area

**Antigens and antibodies**

*Chair:* Guillermo Docena (Argentina)

*Chair:* Lena Ederer (Vienna, Austria)

II.019 **Evidence that IgE epitopes of the major dog allergen Can f 2 are conformational**

*Poster Presenter:* Alexandra Dubovets (Russian Federation)

II.022 **CD1 antigens can be found in the lungs and are enriched in small extracellular vesicles isolated from bronchoalveolar lavage fluid**

*Poster Presenter:* Reza Abouali (Poland)

II.023 **Profiling and quantitating CD8+ T-cell mediated immunity through molecular live cell imaging**

*Poster Presenter:* Johannes Holler (Austria)

II.024 **Understanding the connections between cellular metabolism, MHC-I regulation, and the immune response**

*Poster Presenter:* Surender Nakka (Switzerland)

II.025 **Nickel activation of CD4 T cells in a single MHC/peptide transgenic mouse**

*Poster Presenter:* Shaodong Dai (United States)

II.026 **The regulation of MHC-I antigen presentation pathway by cooperation of NLRC5 and IRF1**

*Poster Presenter:* Tsutomu Tanaka (Japan)

II.029 **Evaluation of CD154 as a molecular immuno-adjuvant in CSF E2 subunit vaccine**

*Poster Presenter:* Hso-Chi Chaung (Taiwan)

II.030 **Development and Immunogenicity Evaluation of a Recombinant Baculovirus-Based Norovirus Vaccine**

*Poster Presenter:* Hee Jung Lee (Korea, Republic of)

II.031 **Designing novel strategies for developing low-cost subunit vaccine immunogens based on envelope protein domain III of Dengue virus**

*Poster Presenter:* Disharee Mallick (India)

II.034 **Innate and adaptive immune response of human cells against *Mycobacterium bovis* BCGΔBCG1419c, a tuberculosis vaccine candidate**

*Poster Presenter:* Edwin Uriel Rojas Valles (Mexico)

II.036 **Enhancing cross-protective CD8+ T cell memory response to influenza through 4-1BBL incorporation into an adenovirus vaccine containing Influenza nucleoprotein**

*Poster Presenter:* Razieh Eshraghisamani (Canada)

II.037 **The Molecular Clamp Platform: a broadly applicable solution to the manufacture of multipathogen subunit vaccines**

*Poster Presenter:* Keith Chappell (Australia)

II.038 **Development of next-generation measles-vectorized vaccines against Orthopoxviruses**

*Poster Presenter:* Tiphany Chrunc (France)

#### *Poster Walk*

12:15 - 13:45

Poster Area

#### **Cytokines**

*Chair:* Srikanth Sadhu (Faridabad, India)

II.235 **Diabetes-induced CD8+ T cell dysfunction and an exacerbated cytokine response in patients and in an experimental model of parasite infection**

*Poster Presenter:* Gastón Bergero (Argentina)

II.236 **FcRy-Card9 signaling activated by GM-CSF facilitates the differentiation of bone marrow-derived macrophages induced by GM-CSF**

*Poster Presenter:* Ei'ichi Iizasa (Japan)

II.237 **The role of IFN-alpha and IFN-beta in the immune defence against viral infections**

*Poster Presenter:* Verena Babl (Austria)

II.240 **Targeting interleukin-1 receptor accessory protein for selective cytokine-based therapy of inflammatory diseases**

*Poster Presenter:* Lisa Scanduzzi (Netherlands)

II.241 **Dysregulated cytokine profiles associated with interleukin-17A suppression in B-cell acute lymphoblastic leukemia**

*Poster Presenter:* Zekhethelo Alondwe Mkhwanazi (South Africa)

II.243 **Uncovering the role of CMTM4 in IL-17RC trafficking**

*Poster Presenter:* Tijana Trivic (Switzerland)

II.245 **Unravelling the secretion of the two different subunits (p35/p40) of IL-12 at the immunological synapse between dendritic cells and T cells**

*Poster Presenter:* Anithi Psoma (Netherlands)

II.246 **Mechanisms Underlying Regulation of Intestinal Epithelial Cell Homeostasis Upon Sepsis**

*Poster Presenter:* Xiao-Di Tan (United States)

*Poster Walk*

12:15 - 13:45

Poster Area

**Infectious diseases 1**

*Chair:* Theresa Rossouw (South Africa)

*Chair:* Thomas Krausguber (Austria)

II.312 **Proteomic and transcriptomic profiling unveil a type I interferon-driven immune response in *Brucella abortus*-infected macrophages**

*Poster Presenter:* Leonardo A. Gómez (Chile)

II.314 **CD177 enhances neutrophil viral uptake and inflammation in SFTS and H1N1: mechanistic insights and prognostic implications**

*Poster Presenter:* Liuluan Zhu (China)

II.315 **Mechanism and implications of human monocyte/macrophage activation by Ebola virus protein VP40**

*Poster Presenter:* Karnail Singh (United States)

II.316 **Identification of novel antiviral targets against measles virus infection**

*Poster Presenter:* Maria Lange Pedersen (Denmark)

II.318 **Humoral responses to SARS-CoV-2 vaccine in vasculitis-related immune suppression**

*Poster Presenter:* Kimia Kamelian (United Kingdom)

II.319 **Activation of Wnt/Beta-catenin pathway decrease HIV replication and increase central memory CD4+ T cell differentiation**

*Poster Presenter:* Simone Fonseca (Brazil)

II.320 **Identification of new subpopulation of NK cells in the lungs of Balb/c mice infected with influenza A virus**

*Poster Presenter:* Tatiana Betáková (Slovakia)

II.322 **Virucidal phytochemicals identified from *Saxifraga* plants and attempt evaluation of their effects to innate immune system**

*Poster Presenter:* Toshihiro Murata (Japan)

II.323 **Lower CCR6 expression in peripheral blood myeloid cells distinguish children and young people with long COVID**

*Poster Presenter:* Jon Izquierdo-Pujol (Spain)

II.324 **Sepsis induced tissue specific dysregulation analyzed through model of 3D iPSCs derived organoids**

*Poster Presenter:* Jan Frič (Czech Republic)

II.325 **Human alveolar macrophage function is impaired in tuberculosis contacts with diabetes**

*Poster Presenter:* Katharina Ronacher (Australia)

II.327 **Impaired TGF-beta receptor 2 signalling on myeloid cells increases susceptibility to *Mycobacterium tuberculosis***

*Poster Presenter:* Natalie E. Nieuwenhuizen (Germany)

II.328 **Immune Signatures distinct to Severe versus Self-limiting Scrub Typhus: New Evidence from Murine Models**

*Poster Presenter:* Lynn Soong (United States)

II.329 **Macrophages orchestrate elimination of *Shigella* from the intestinal epithelial cell niche via TLR-induced IL-12 and IFN-γ**

*Poster Presenter:* Kevin D. Eislmayr (United States)

II.330 **Berry e-cigarette vapour impair alveolar macrophage mobility and infection clearance**

*Poster Presenter:* Ajitha Thanabalsuriar (Canada)

II.331 **B cells as a host of persistent *Salmonella Typhimurium***

*Poster Presenter:* Jocelyn Carolina Pérez Lara (Mexico)

*Poster Walk*

12:15 - 13:45

Poster Area

**Autoimmunity 3**

*Chair:* Nima Rezaei (Tehran, Iran)

*Chair:* Ingo Schmitz (Germany)

II.078 **Single-cell profiling of CD4+ T cells reveals early-stage immune alterations in type 1 diabetes**

*Poster Presenter:* Rahul Biradar (Finland)

II.079 **Tissue-resident memory B cells in the kidneys of a mouse model of Systemic Lupus Erythematosus**

*Poster Presenter:* María Rosa Bono (Chile)

II.080 **TCR-dependent CD8+ T cell responses drive atherosclerotic plaque instability**

*Poster Presenter:* Jonathan Noonan (Australia)

II.081 **Decades-long elevation of IFNa drives a Sjögren syndrome endotype**

*Poster Presenter:* Ivana Jorgacevic (Germany)

II.082 **Characterization of exhausted T cells in systemic lupus erythematosus**

*Poster Presenter:* Paola Santana Sánchez (Mexico)

II.084 **Liver immunologic tests: from homeostasis to disease**

*Poster Presenter:* Rahmani Amine (Algeria)

II.086 **IL-6 mediated immune dysfunction-a role in regulatory T cell defect in pemphigus vulgaris**

*Poster Presenter:* Mohammad A. Ansari (India)

II.087 **IL-21-c-Maf Axis-Mediated Dual Targeting for Effector and Regulatory T Cells Mitigates Myelin-Destructive Encephalitis**

*Poster Presenter:* Jia Ling Dong (Taiwan)

II.088 **The type 1 diabetes susceptible MHC-II β56H/57S polymorphisms contribute to the pathogenesis of rheumatoid arthritis**

*Poster Presenter:* Yu-Hsuan Liu (Taiwan)

II.089 **CD8<sup>+</sup> T cell-mediated renal damage in a BWF1 model of Systemic Lupus Erythematosus**

*Poster Presenter:* Maria Rosa Bono (Chile)

II.090 **Studying the role of adipose tissue in intestinal inflammation using acquired generalized lipodystrophy**

*Poster Presenter:* Toka Omar (Germany)

II.091 **CD8<sup>+</sup> T cell-related inhibitory molecules in Behcet's disease: comparison with Myasthenia Gravis**

*Poster Presenter:* Seyda Bilgin (Turkey)

II.092 **Phosphorylation of signaling molecules in peripheral and thymic B cells and responses to T follicular helper cell-related cytokines in Myasthenia Gravis**

*Poster Presenter:* Cemre AKTAS (Turkey)

II.093 **Impaired bone marrow B cell development and peripheral B cell maturation in ANCA-associated vasculitis**

*Poster Presenter:* Franziska Schmidt (Austria)

II.095 **MIF inhibition combined with glucocorticoid treatment ameliorates myocarditis and prevents progression to dilated cardiomyopathy**

*Poster Presenter:* Kyle Pressley (United States)

II.096 **Spatially restricted clonal expansion along with cytotoxic and Th1 phenotypes characterizes the T cell immune landscape of atherosclerotic plaques**

*Poster Presenter:* Fedor M. Polyakov (Russian Federation)

II.097 **Autoantibodies at the Crossroads: Exploring Associations of Natural Autoantibodies with pathological autoantibodies and anti-SARS-CoV2 Immunity**

*Poster Presenter:* Dávid Szinger (Hungary)

*Poster Walk*

12:15 - 13:45

Poster Area

### **B cells**

*Chair:* Marta Rizzi (Austria)

*Chair:* Ola Grimsholm (Austria)

II.116 **INPP5K Shapes B Cell Fate: A Key Link to the SMN Complex**

*Poster Presenter:* Alice Mostafa (Belgium)

II.117 **Human B-cell development at the single-cell level**

*Poster Presenter:* Timothy Sundell (Sweden)

II.119 **IL-7 receptor signaling drives human B-cell progenitor differentiation and expansion**

*Poster Presenter:* Jakov Korzhenevich (Austria)

II.120 **Defective cellular metabolism caused by biotin deficiency impairs follicular B cell differentiation and limits antibody responses to vaccination**

*Poster Presenter:* Chu Han Hsieh (Taiwan)

II.121 **Dominant Extrafollicular B Cell Responses in High-Risk Patients Following SARS-CoV-2 Vaccination**

*Poster Presenter:* Rebeca Gutiérrez-Cózar (Netherlands)

II.122 **Heterologous immunization promotes IgM memory B cells, essential for mucosal immunity**

*Poster Presenter:* Poorya Foroutan Pajoohian (Iceland)

**II.123 31-parameter spectral flow cytometry panel for immune phenotyping of B and T cell responses***Poster Presenter:* Kassandra Hoetzel (Germany)**II.124 SARS-CoV-2 infection versus COVID-19 mRNA vaccination-induced Spike-specific memory B cells: frequencies, Ig class and subclass usage, cross-reactivities, and affinity distributions***Poster Presenter:* Greg Kirchenbaum (United States)**II.125 Intrinsic effect of SENP2-mediated SUMO regulation in germinal center function and immune response***Poster Presenter:* Stephanie Sayson (Taiwan)**II.126 Impact of early measles immunization on memory B cell frequency and functionality***Poster Presenter:* Maaike van der Staak (Netherlands)**II.127 Comparing the diagnostic specificity of flow cytometry-based probe staining and ELISPOT for detection of SARS-CoV-2 Spike-reactive memory B cells using defined cohorts of human PBMC***Poster Presenter:* Georgia Stylianou (United Kingdom)**II.128 Deciphering the function of glutaminyl-peptide cyclotransferase-like protein (QPCTL) in plasma cells***Poster Presenter:* Hannah Smid (Germany)**II.129 Surprisingly high sequential isotype switch in peripheral blood IgA<sup>+</sup> memory B-cells***Poster Presenter:* Aleksandr Granovskii (Russian Federation)**II.130 Investigating the role of di-sialic acids for plasma cell functions***Poster Presenter:* Ronja Brüchert (Germany)**Poster Walk**

12:15 - 13:45

Poster Area

**Autoimmunity 2***Chair:* Georg Stary (Austria)*Chair:* Kaan Boztug (Vienna, Germany)**II.058 Mouse IgA modulates human gut microbiota of inflammatory bowel disease patients***Poster Presenter:* Keishu Takahashi (Japan)**II.059 Interplay between pro-inflammatory cytokines and chromatin-remodeling enzymes in CNS demyelination and repair***Poster Presenter:* Xinda Zhao (Germany)**II.061 Metabolic regulation of checkpoint receptor expression in Regulatory T cells in the context of type 1 diabetes***Poster Presenter:* Martyna Tomaszewicz (Poland)**II.062 Antigen expression and inflammatory response in giant cell arteritis (GCA)***Poster Presenter:* Stephanie Seidlberger (Austria)**II.063 Dual faces of pediatric inflammation: PFAPA meets Henoch-Schönlein purpura***Poster Presenter:* Andreea Alexandru (Romania)**II.065 Interferon- $\alpha$  promotes HLA-B-restricted presentation of conventional and alternative antigens in human pancreatic  $\beta$ -cells***Poster Presenter:* Fatoumata Samassa (France)**II.067 Molecular control of regulatory T cells by nuclear factor interleukin-3 regulated**

*Poster Presenter:* Bianca Luckerbauer (Austria)

II.068 **Anti-IL-1 $\alpha$  autoantibodies in the population: links to demographic, clinical, and genetic factors**

*Poster Presenter:* Martti Vanker (Estonia)

II.071 **Anti-dsDNA reactive B-cells are activated through the extrafollicular pathway in systemic lupus erythematosus**

*Poster Presenter:* Lars van Vliet (Netherlands)

II.072 **Cellular and Spatial Dynamics of T Cell-Epithelial Interactions in IBD Models**

*Poster Presenter:* Oier Etxezarreta Arrastoa (Israel)

II.073 **An unsupervised flow cytometry analysis reveals a major shift in T cell memory towards activated TEMRA cells in APECED patients**

*Poster Presenter:* Joonatan Mattila (Finland)

II.074 **Time-resolved immune dynamics in rheumatoid arthritis under methotrexate therapy**

*Poster Presenter:* Teresa Preglej (Austria)

II.075 **A novel humanized mouse model of Sjögren's disease**

*Poster Presenter:* Xiang Lin (Hong Kong)

II.076 **Daphnetin alleviates psoriasis-like skin inflammation via mitochondrial regulation of Th17 cells in an imiquimod-induced model**

*Poster Presenter:* Eunjung Kim (Korea, Republic of)

II.077 **Distinct transcriptomic profiles in mononuclear cells and platelets reveal promising novel biomarkers for early Rheumatoid Arthritis**

*Poster Presenter:* Tulio Lopera Restrepo (Colombia)

*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 1**

*Chair:* Akira Takeda (Finland)

II.131 **Establishing the role of CD4 T-cells in blood cancer**

*Poster Presenter:* Nicolas Deredec (France)

II.133 **Inhibition of NLRP3 enhances pro-apoptotic effects of FLT3 inhibition in AML**

*Poster Presenter:* Diana Amend (Austria)

II.134 **Extracellular Acidosis as a Driver of Immune Evasion in Solid Tumors: Targeting the Acidic Tumor Microenvironment for Immunotherapy**

*Poster Presenter:* Sebastian Kunz (Germany)

II.135 **Transcriptomic analysis of the influence of the large T antigen in Merkel cell carcinoma cell lines**

*Poster Presenter:* Franziska Bremm (Germany)

II.136 **Peritoneal metastasis associated fibroblasts express CXCL2 in response to efferocytosis of apoptotic tumour cells**

*Poster Presenter:* Chiara Zotter (Austria)

II.137 **The mitochondrial DNAJC15 protein regulates cancer immunogenicity and metastatic potential**

*Poster Presenter:* Basel Al-Ramadi (United Arab Emirates)

II.138 **The NLRP3/eIF2 axis in acute myeloid leukemia**

*Poster Presenter:* Helene Sieberer (Austria)

II.140 **Variation of tissue inflammatory threshold can originate smoldering inflammation with collagen scaffold remodeling, supporting the development of major pathologies**  
*Poster Presenter:* Luca Vannucci (Czech Republic)

II.141 **Epidemiological profile of patients undergoing treatment for non-small cell lung carcinoma with monoclonal antibodies in a private clinic in the interior of Brazil**  
*Poster Presenter:* Ana Miquelão (Brazil)

II.142 **Enabling fast and convenient immune profiling of fresh and long-term stabilized human whole blood samples with CyTOF**  
*Poster Presenter:* Melissa Klug (Germany)

II.144 **The tumor microenvironment of germinal center-derived lymphoma contains cytotoxic CD4<sup>+</sup> T-follicular cells**  
*Poster Presenter:* Friederike Berberich-Siebelt (Germany)

II.145 **Attenuated Mt10 Coxsackievirus as an oncolytic virus for the treatment of cancers**  
*Poster Presenter:* Kiruthiga Mone (United States)

II.146 **Cytokines as drivers of differential tumor growth of anaplastic thyroid cancer xenografts**  
*Poster Presenter:* Agustina Jaroszewski (Argentina)

II.147 **Post-transcriptional and epigenetic control of NAT1 in pediatric acute lymphoblastic leukemia**  
*Poster Presenter:* Edith Elena Uresti Rivera (Mexico)

II.150 **The alarmin HMGB1 is released in different forms from cancer cell lines**  
*Poster Presenter:* Harini Pechiappan (Norway)

II.151 **Frequency of exhausted and senescent CD4<sup>+</sup> T cells in the peripheral blood of patients with benign and malignant ovarian tumors**  
*Poster Presenter:* Gabriela Nohemi Espinoza de León (Mexico)

**Poster Walk**

12:15 - 13:45

Poster Area

**NK and other ILCs**

Chair: Domenico Mavilio (Milano, Italy)

Chair: Gunnur Deniz (Istanbul, Turkey)

II.416 **DNAM-1 exacerbates intestinal inflammation by activating ILC3 via the Akt/mTORC1/HIF-1 $\alpha$  signaling pathway**  
*Poster Presenter:* Natsuki Ide (Japan)

II.418 **The role of ILC2-ILC3 plasticity in long-term allergen exposure and emphysema pathogenesis**  
*Poster Presenter:* Davit Khijakadze (Canada)

II.419 **Adaptive-like NK cells co-expressing NKG2C and NKG2A constitute a unique subset with enhanced proliferative and cytokine-producing capabilities**  
*Poster Presenter:* Elena I. Kovalenko (Russian Federation)

II.420 **Impairment of Natural Killer-cell-mediated tumor killing by transforming growth factor  $\beta$**   
*Poster Presenter:* Gheorghita Isvoranu (Romania)

II.421 **The effect of irradiation on trained immunity in cancer: the role of NK cells**  
*Poster Presenter:* Tim Bozic (Slovenia)

II.422 **IKAROS and AIOLOS directly regulate AP-1 transcriptional complexes and are essential for NK cell development**  
*Poster Presenter:* Sebastian Scheer (Luxembourg)

II.423 **PD-L1 signaling promotes the anti-tumor activity of NK cells**  
*Poster Presenter:* Olivia Makinson (Canada)

II.424 **Memory and antigen-specific NK cell response to hCMV and SARS-CoV-2**  
*Poster Presenter:* Maria Ustiuzhanina (Russian Federation)

II.425 **Functional co-option of HIF1α and AhR control NK cell responsiveness under hypoxia**  
*Poster Presenter:* Sebastiano Giorgetta (Germany)

II.426 **NFAT is important for NK cell maturation and function**  
*Poster Presenter:* Xiaoli Lou (Germany)

II.427 **The role of serine/threonine kinase 38 in natural killer cells**  
*Poster Presenter:* Faith O. David (Austria)

II.428 **Adaptive NK Cell Development in an Altered Landscape Following Hematopoietic Stem Cell Transplantation**  
*Poster Presenter:* Sebastian Grocott (Canada)

II.430 **TXNIP regulates IFN-γ production of NK cells by inhibiting TAK1-mediated pathways during bacterial infection**  
*Poster Presenter:* ChanHo Park (Korea, Republic of)

II.431 **A cross-tissue atlas of human natural killer cells in immune-mediated inflammatory diseases**  
*Poster Presenter:* Jarne Beliën (Belgium)

II.432 **MYO1G participates in the expression of NK1.1 molecule and the cytotoxicity of NK cells**  
*Poster Presenter:* Hector Romero-Ramírez (Mexico)

II.433 **Natural killer cell exhaustion and dysfunction as a hallmark of the inflammation in Still's disease**  
*Poster Presenter:* Amber De Visscher (Belgium)

*Poster Walk*

12:15 - 13:45

Poster Area

**Mixed topics 1***Chair:* Shalin Naik (Australia)*Chair:* Luis Andrade (Brazil)

II.353 **In Vivo Imaging of Response mechanism of Peptide drug within Thymus Tissue**  
*Poster Presenter:* Jenny Junghyon Ohm (Korea, Republic of)

II.354 **Exploring the Role of Human Primary Keratinocytes in *Candida auris* Infection: Antimicrobial Defense and Immune Signaling**  
*Poster Presenter:* Saskia Seiser (Austria)

II.355 **Octenidine-based antiseptics significantly reduce *Candida auris* burden on ex vivo human skin**  
*Poster Presenter:* Diana Cerbu (Austria)

II.356 **IVF-conceived mice exhibit higher tendency to develop allergic response following sensitization with OVA**  
*Poster Presenter:* Hamid Ahmadi (Hungary)

II.357 **Analysis of levels of C3 and C4 of the complement system during and post-COVID-19 pandemic**

*Poster Presenter:* Sunkyung Jung (Korea, Republic of)

II.358 **Next-Level Efficiency: StraightFrom Spleen Isolation Kits - Standardizing Isolation of Untouched B cells with Minimal Hands-On Time**

*Poster Presenter:* Anna Baranska (Germany)

II.360 **Influence of HLA-B leader (-21M/T) Dimorphism along with Bw4 epitopes on graft versus host disease after hematopoietic cell transplantation**

*Poster Presenter:* Gaurav Sharma (India)

II.361 **Effect of caloric restriction on cGAS-STING signaling in acute kidney injury**

*Poster Presenter:* Barbara Nunes Padovani (Brazil)

II.362 **Mechanisms of gut barrier dysfunction: effects of detergents and food additives on epithelial integrity, molecular toxicity and inflammation**

*Poster Presenter:* Ismail Ogunur (Switzerland)

II.363 **Monosodium glutamate affects inflammation, cellular stress, protein folding defect, mitochondrial dysfunction and cell death in intestinal epithelial cells**

*Poster Presenter:* Ismail Ogunur (Switzerland)

II.365 **Impact of T cell-mediated inflammatory response in cardiac adipose tissue in reperfused myocardial infarction**

*Poster Presenter:* Vincent Matteo Menkel (Germany)

II.366 **Next gen spatial biology high-throughput multiplexed IMC™ with whole slide modes**

*Poster Presenter:* Melissa Klug (Germany)

II.368 **Detection and diagnosis of clinically latent pulmonary alveolar proteinosis**

*Poster Presenter:* Evgenia Katsimpourlia (Greece)

II.369 **Circulatory microinflammation and its association with serum antibody epitope repertoires by PhIP-sequencing**

*Poster Presenter:* Ismail Ogunur (Switzerland)

II.370 **Circulating inflammatory responses to air pollution exposure**

*Poster Presenter:* Ismail Ogunur (Switzerland)

II.371 **Single-cell analysis of female ME/CFS patients identifies immune dysregulations linked to chronic peripheral activation**

*Poster Presenter:* Francesco Elli (Germany)

II.372 **Immune, neurological, and hormonal dysregulation in Long COVID with chronic fatigue syndrome**

*Poster Presenter:* Shokrollah Elahi (Canada)

II.373 **The Sugar Language of Immunology: Glycosylation-Related Biomarkers for Severity Stratification in Post-Infectious Chronic Fatigue Syndrome**

*Poster Presenter:* Davide Ret (Austria)

*Poster Walk*

12:15 - 13:45

Poster Area

**Mixed topics 2**

*Chair:* Pasquale Maffia (United Kingdom)

II.374 **ALKBH5-mediated RNA m<sup>6</sup>A demethylation epigenetically orchestrates innate immunity in host-pathogen interactions**

*Poster Presenter:* Yang Liu (China)

II.375 **Obesity hampers phagocytosis of bacteria by human neutrophils**

*Poster Presenter:* Carlos Rosales (Mexico)

II.376 **IgM-dependent immune evasion of antibiotic-tolerant *Salmonella***

*Poster Presenter:* Uki Kimura (Japan)

II.377 **Regulation of reactive oxygen species and NETs by lipoic acid**

*Poster Presenter:* Gisela Anay Valencia Hernandez (Mexico)

II.378 **The transcription factors TCF1 and LEF1 promote B-1a cell homeostasis and regulatory function**

*Poster Presenter:* Qian(Sophie) Shen (United Kingdom)

II.379 **Direct Effects of Bacterial Amino Acids on Lymphocyte Effector Functions**

*Poster Presenter:* Vicky Lampropoulou (Greece)

II.380 **Anti-cancer immune responses induced by cytokines**

*Poster Presenter:* Alexandra Berger (Canada)

II.381 **Cooperative induction of CXCL chemokines by low concentrations of inflammatory cytokines and oxidized phospholipids**

*Poster Presenter:* Olga Oskolkova (Austria)

II.382 **Effects of electrophilic drugs and natural products on the spectrum of pro- and anti-inflammatory genes induced by cytokines and PAMPs**

*Poster Presenter:* Valery Bochkov (Austria)

II.383 **Commensal bacteria sensed by memory CD8+ T cells impede antigen-specific CD8 responses by inducing NO synthesis in antigen-presenting cells**

*Poster Presenter:* Uwe Ritter (Germany)

II.384 **Soluble isoform of CTLA-4 regulates DC function via non-canonical NF-K $\beta$  signaling and induces cellular turnover of B7-1**

*Poster Presenter:* Nidhi Pandey (India)

II.385 **Induction of Th2 type T cell response by ct-CD45 treatment of DCs**

*Poster Presenter:* Sara Gil Cantero (Austria)

II.386 **Interaction of putative inducible damage-associated molecular patterns (PiDAMPs) with TLR4 and TLR8 in ex vivo generated human dendritic cells and THP-1 cells**

*Poster Presenter:* Fermín González (Chile)

II.387 **Characterization of dendritic cells in SARS-CoV-2 infected human immunocompetent 3D respiratory models**

*Poster Presenter:* Sophie Ann Erckert (Austria)

II.388 **Generation of a xeno-free monocyte-derived dendritic cell cultivation workflow**

*Poster Presenter:* Paul Schweighofer (Austria)

II.389 **HIV-1-infected CD4 $^{+}$  T cells induce human plasmacytoid DC diversification in vitro**

*Poster Presenter:* Mehdi Khelfa (France)

*Poster Presenter:* Anne Hosmalin (France)

II.390 **Cell-derived matrixes as versatile tissue models for immune cell migration studies**

*Poster Presenter:* Pauline Weinzettl (Finland)

II.391 **GM-CSF Signal Induces Functional Dendritic Cells with**

**Immunoregulatory Phenotype***Poster Presenter:* Woojin Kim (Korea, Republic of)

II.392 **Fibroblasts are professional phagocytes: they can detect and phagocytose necrotic acinar cells in experimental acute pancreatitis**

*Poster Presenter:* Juliane Glaubitz (Germany)

II.393 **MerTk regulates inflammation and lung integrity in COPD**

*Poster Presenter:* Alessandra Filardy (Brazil)

II.394 **Clearance of apoptotic cells by neutrophils triggers an anti-inflammatory and regenerative response in colorectal cancer**

*Poster Presenter:* Rudolf Oehler (Austria)*Poster Walk*

12:15 - 13:45

Poster Area

**Immunity to bacteria***Chair:* Sadhna Sharma (Delhi, India)*Chair:* Henrique Colaco (Vienna, Austria)

II.291 **Immune cell alterations in patients with surgical infections of the spine**

*Poster Presenter:* Pia Fehrenbach (Switzerland)

II.292 **Functional analysis of repurposed drugs as immune regulators in the protection against *M. tb***

*Poster Presenter:* Armin O'Connor (South Africa)

II.293 **How the microbiome shapes *S. aureus* colonization of healthy and inflamed skin**

*Poster Presenter:* Jule Riebelmann (Germany)

II.294 **Monocyte-dependent innate immunity prevents severe complications from acute bacterial infection in the middle ear**

*Poster Presenter:* Haengran Park (Korea, Republic of)

II.295 **Interleukin-15 receptor alpha independent IL-15 functions in early innate responses**

*Poster Presenter:* Sheela Ramanathan (Canada)

II.296 **Investigating the immunological roles of dectin-1 and mincle during Mycobacterial infection**

*Poster Presenter:* Akshita Singh (India)

II.297 **Antibacterial effects of coniferyl alcohol-derived dehydrogenation polymer on chlamydial infection in vitro**

*Poster Presenter:* Aleksandra Inic-Kanada (Austria)

II.300 **ADP-heptose attenuates *Helicobacter pylori*-induced dendritic cell activation**

*Poster Presenter:* Theresa Neuper (Austria)

II.301 **The prime-boost vaccination method using recombinant BCG and DNA vaccines induces antigen-specific cellular immunity and is effective for protection against mycobacteria**

*Poster Presenter:* Shihoko Komine-Aizawa (Japan)

II.302 **IL-33 enhances mast cell response to *E. coli*: new perspectives on host defense against bacteria**

*Poster Presenter:* Ricardo Emmanuel Martínez-Martínez (Mexico)

II.303 ***Helicobacter pylori*-derived outer membrane vesicles induce activation of primary human monocytes**

*Poster Presenter:* Gunda Üblagger (Austria)

II.304 **Mtb specific T cell activation and immune perturbation as potential biomarkers for asymptomatic Tuberculosis (TB)**

*Poster Presenter:* Mahlatse Maseeme (South Africa)

II.305 **TIR-domain-containing protein C of *Escherichia coli* CFT073 as regulator of innate immune checkpoints**

*Poster Presenter:* Leon Heine (Germany)

II.306 **Proteomic profile of exosomes derived from macrophages infected with *Brucella abortus*: mechanisms of immune evasion and host response modulation**

*Poster Presenter:* Francisco Álvarez González (Chile)

II.307 **Characterization of type 2 immunity against enteropathogenic bacteria**

*Poster Presenter:* Bihua Chen (Austria)

II.308 **Dual RNA-seq analysis reveal distinct transcriptomic signatures of Macrophages-Mtb interactions**

*Poster Presenter:* Chenyan Shi (China)

II.309 **Investigating the roles of two newly characterized immune-induced peptides, IbinA and IbinB, in the fruit fly *Drosophila melanogaster* model**

*Poster Presenter:* Matthew Maasdorp (Finland)

II.311 **Study on the Role and Mechanism of the C3a/C3aR Axis in *Salmonella Enteritidis* Induced Enteritis in Mouse**

*Poster Presenter:* Xiaoli Zheng (China)

*Poster Walk*

12:15 - 13:45

Poster Area

**Blood cells and proteins**

*Chair:* Helen Goodridge (Los Angeles, United States)

*Chair:* Philipp Starkl (Austria)

II.098 **The role of AhR in gut macrophages: balancing tissue-resident differentiation and host defense**

*Poster Presenter:* Sun-Young Chang (Korea, Republic of)

II.099 **Gut macrophages regulate colonic inflammation and tumorigenesis via the AhR environmental sensor**

*Poster Presenter:* Seo-Hee Oh (Korea, Republic of)

II.100 **Doublecortin-like kinase 1 regulates monocyte dynamics and inflammation in endotoxemia-induced acute lung injury**

*Poster Presenter:* Pei-Yun Lin (Taiwan)

II.101 **Protein Kinase C 6: a critical hub regulating GM-CSF production for immunomodulatory functions in macrophages during *Mycobacterium tuberculosis* infection**

*Poster Presenter:* Rudranil Hazra (South Africa)

II.102 **Knock, knock, it's AM o'clock!**

*Poster Presenter:* Fanzhe Meng (China)

II.103 **Jagged1 mutation induces immune response dysregulation in hepatic phagocytes**

*Poster Presenter:* Bora Kim (Korea, Republic of)

II.104 **MRC2 Deficiency Alleviates the Development of MAFLD by Downregulating CD147-Mediated TNF- $\alpha$  Production in Macrophage**

*Poster Presenter:* Hsin-Ying Clair Chiou (Taiwan)

II.105 **Myeloid type I IFN sensing facilitates splenic stress erythropoiesis**

*Poster Presenter:* Florian Deckert (Austria)

II.106 **Characterising the myeloid immune compartment in colorectal tumours using routine clinical features and a mātauranga Māori approach.**

*Poster Presenter:* Brad Devery (New Zealand)

II.107 **Spatial immune regulation in the liver to maintain the tissue homeostasis**

*Poster Presenter:* Yu Miyamoto (Japan)

II.108 **Inhibitory role of CD244 in human macrophages: Insights into cytokine regulation and immune modulation**

*Poster Presenter:* Aarón Adrián-Ochoa (Spain)

II.109 **Regulation of M1 macrophage phenotype by IFN- $\gamma$ -inducible IRGA: linking mitochondrial function to immune response**

*Poster Presenter:* Anup Kumar Singh (India)

II.112 **Repositioning Doxycycline as a Novel Immunotherapeutic: Exploring its Synergy with Antagonists of Ectonucleotidase**

*Poster Presenter:* Parameswar Dalai (India)

II.113 **Unravelling the Role of ACKR3 in Peritoneal Macrophage Function and Immune Cell Migration**

*Poster Presenter:* Ayumi Fukuoka (United Kingdom)

II.114 **An inverse relationship between LPS and cAMP drives early metabolic changes in M1 macrophage polarization - a modelling and simulation study**

*Poster Presenter:* Sachin Sudesh Desh (India)

II.115 **Serotonin, melatonin & beyond: tryptophan metabolites in macrophage immunity**

*Poster Presenter:* Lars Hofstede (Netherlands)

*Poster Walk*

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Poster Area

#### **Novel immunomodulation therapies**

*Chair:* Michael Mingueneau (Cambridge, United States)

II.434 **Therapeutic potential of a pyridine-based IRAK4 inhibitor against autoimmune diseases through modulation of innate immunity**

*Poster Presenter:* Daeyong Kim (Korea, Republic of)

II.435 **Re-educating the immune system in iTTP: autoantigen-loaded PS-liposomes to induce self-tolerance**

*Poster Presenter:* Daniela Greco (Spain)

II.436 **In Vivo Transient Programming of T cells with Targeted Nanoparticles Encapsulating eRNA-encoded hCD19 CAR Achieves Deep B cell Depletion in B-cell Repopulating Humanized Mice**

*Poster Presenter:* Michael Mingueneau (United States)

II.437 **Development of an in vitro T cell assay to measure the pharmacodynamic characteristic of Kv1.3 inhibitors**

*Poster Presenter:* Mariann Kremlitzka (Hungary)

II.438 **EGL-003: an optimized IL-2 mutein designed to expand regulatory T cells for the treatment of autoimmune diseases**

*Poster Presenter:* Cindy Orvain (France)

II.440 **MHC class I peptide antigens presented on HLA-G-derived molecules induce antigen-specific tolerance *in vitro* and *in vivo***

*Poster Presenter:* Jörg Wischhusen (Germany)

II.441 **In silico Identification of Type 1 Inhibitors Against JAK2 Protein by Molecular Docking and Molecular Dynamics Studies as Potential Immunomodulatory Therapies**

*Poster Presenter:* Elena Jaime-Sánchez (Mexico)

II.442 **RBC-engager for NK and T cell activation in cancer immunotherapy**

*Poster Presenter:* Oana Gavriliuc (Romania)

II.443 **Exercise-induced extracellular vesicles trigger inflammation and delay tumor growth in an immunologically cold triple-negative breast cancer model**

*Poster Presenter:* Agata Mlynka (Lithuania)

II.444 **EGL-001: A Tumor-Targeted anti-CTLA-4-IL-2 antagonist Fusion Antibody That Prevents CTLA-4-Mediated CD80/CD86 Removal and Enhances Anti-Tumor Immunity**

*Poster Presenter:* Nedra Chriti (France)

II.446 **Functionalized nanodiamond particles modulate immune responses through dendritic cells and regulatory T cells**

*Poster Presenter:* Nora Marek (Norway)

II.447 **Engineered cytokine/antibody fusion proteins confer cancer or autoimmune disease protection through selective expansion of specific immune cell populations**

*Poster Presenter:* Jakub Tomala (United States)

II.449 **Lyve1<sup>+</sup> macrophages contribute to vascular density and perfusion important for tissue normalization during healing of ischemic injuries**

*Poster Presenter:* Chiara Testini (Sweden)

II.450 **Nutritional-mediated modulation of intestinal integrity and immune response in weaned piglets through heat-killed *Mycobacterium manresensis* supplementation**

*Poster Presenter:* Carmen Álvarez-Delgado (Spain)

*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 3**

*Chair:* Maria Sibilia (Austria)

*Chair:* Martin Holcmann (Vienna, Austria)

II.174 **Selective inflammation of the tumor microenvironment and invigorated T cell-mediated tumor control upon induced systemic inactivation of TREX1**

*Poster Presenter:* Emilia Marinkovic (Germany)

II.175 **Tailoring β-Ag<sub>2</sub>MoO<sub>4</sub> Microstructures for Targeted Bladder Cancer Therapy: A Morphology-Dependent Cytotoxic Approach**

*Poster Presenter:* Bruna Dias de Lima Fragelli (Brazil)

II.178 **COMPREHENSIVE IMMUNOLOGICAL PROFILE OF COLORECTAL CANCER PATIENTS**

*Poster Presenter:* Chien Huynh (Vietnam)

II.179 **Patient study reveals an induction of effector MAIT1 at the expense of effector MAIT17 cells in pancreatic ductal adenocarcinoma**

*Poster Presenter:* Magdalena Huber (Germany)

II.180 **Evaluation of citrate and acetyl-l-carnitine in combination with docetaxel as a potential chemotherapeutic strategy in cellular models of advanced prostate cancer**

*Poster Presenter:* Pablo Elías Prado Guevara (Colombia)

II.181 **Immunotoxin IL-13-DT390 as a Potential Drug Candidate in Muscle Invasive Bladder Cancer Expressing IL-13R $\alpha$ 2**

*Poster Presenter:* Aleksandra Klimczak (Poland)

II.182 **Ex Vivo STAT3 Phosphorylation in Circulating Immune Cells: A Novel Biomarker for Early Cancer Diagnosis and Response to Anti-PD-1 Therapy**

*Poster Presenter:* Young Ju Kim (Korea, Republic of)

II.183 **Enhanced thrombopoiesis supplies PD-L1 to circulating immune cells via the generation of PD-L1-expressing platelets in patients with lung cancer**

*Poster Presenter:* Saei Jeong (Korea, Republic of)

II.184 **Targeting MUC1 for breast and pancreatic cancer with synthetic modular cancer vaccines and monoclonal antibody-derived therapies**

*Poster Presenter:* Isabelle Silvestre (Germany)

II.185 **Targeting mitochondria to enhance epigenetic therapy in acute myeloid leukaemia**

*Poster Presenter:* Annika Seddon (New Zealand)

II.187 **IL-7 cytokine therapy promotes antitumor responses of immunotherapies through regulation of CD8 $^{+}$  tumor-infiltrating lymphocytes**

*Poster Presenter:* Jaehyuk Yang (Korea, Republic of)

II.188 **ROLE OF microRNA's AND THEIR IMPACT ON JAK/STAT SIGNALING PATHWAY IN THE PATHOGENESIS OF HEPATOCELLULAR CARCINOMA: A POTENTIAL THERAPEUTIC AXIS IN HCC**

*Poster Presenter:* Dil Afroze (India)

II.189 **Inhibition of IL6 trans-signalling is sufficient to control metastatic burden by reshaping of the tumour immune environment**

*Poster Presenter:* Amr Allam (Australia)

II.191 **Eradication of high-risk neuroblastoma with novel immunogenic cell death inducer**

*Poster Presenter:* Tai-Na Wu (Taiwan)

II.192 **BTLA as potential plasma biomarker in diffuse large B cell lymphoma**

*Poster Presenter:* Katarína Lopušná (Slovakia)

II.193 **Identification of the 3' UTR mutations of the IL7R gene in lung cancer, breast cancer, and melanoma**

*Poster Presenter:* Zeynep Akcin (Turkey)

#### *Poster Walk*

12:15 - 13:45

Poster Area

#### **T cells 1**

*Chair:* Juan Carlos (JC) Zúñiga-Pflücker (Canada)

*Chair:* Donna Farber (United States)

II.488 **Development of heterologous PD-1 based DNA vaccines eliciting robust tissue-resident CD8 $^{+}$  T cell immunity against HIV-1 gastrointestinal reservoirs**

*Poster Presenter:* Jinlin Wang (Hong Kong)

II.489 **Altered cytotoxic and metabolic features of unconventional T-cells in type 2 diabetes**

*Poster Presenter:* Isanawidya H. Paramita (United Kingdom)

II.490 **Memory T lymphocyte residency and recall capacity are shaped by tissue-specific epigenetic imprints**

*Poster Presenter:* Jun Dong (Germany)

II.491 **Investigating the regulatory potential of human CD8<sup>+</sup>HLA-DR<sup>+</sup>CD45RC<sup>-</sup> T cells**

*Poster Presenter:* Gabriel Knoll (Austria)

II.492 **Implications for sustained TIGIT expression on the suppressive functions in activated T cells**

*Poster Presenter:* Naoko Negishi (Japan)

II.493 **FOXP3<sup>+</sup> Treg cells control the Tc1- and neutrophil-mediated inflammation to establish nasal immune homeostasis in chronic rhinosinusitis**

*Poster Presenter:* Haewon Park (Korea, Republic of)

II.494 **Transposable elements become demethylated during the differentiation of human regulatory T cells in skin tissue**

*Poster Presenter:* Niklas Beumer (Germany)

II.495 **The role of LFA-1 and regulatory T cells in skin inflammation**

*Poster Presenter:* Maike Hartmann (Germany)

II.496 **High-throughput drug screening identifies Hsp90 inhibitors down-regulating FoxP3 in regulatory T cells**

*Poster Presenter:* Qian Wei (Norway)

II.497 **Dynamic landscape of regulatory regions during the early stages of human Treg differentiation**

*Poster Presenter:* Nikita Kumar (Finland)

II.498 **Immune aging: the role of BAF chromatin remodeling complexes in the development and maintenance of regulatory T cells**

*Poster Presenter:* Karolina Romaniuk (Germany)

II.499 **Quiescent Stem-like Progenitors Maintain Long-lived Regulatory T Cell Responses**

*Poster Presenter:* Yumi Kanemaru (United Kingdom)

II.500 **Proteomics reveals the protein landscape of human induced regulatory T cells**

*Poster Presenter:* Kedar Batkulwar (Finland)

II.501 **Treg and CKD-induced cardiomyopathy development**

*Poster Presenter:* Nicolas Valentini (Canada)

II.502 **Nuclear receptor corepressor 1 controls regulatory T cell subset differentiation and effector function**

*Poster Presenter:* Rafael Freitas (Austria)

II.503 **High-throughput drug-repurposing screen identifies FAK as a potential modulator of the suppressive functions of regulatory T cells**

*Poster Presenter:* Nuria García-Díaz (Norway)

II.504 **The role of FOXP3<sup>+</sup> Treg in liver disease**

*Poster Presenter:* Caitlin Abbott (Italy)

II.505 **Regulatory T cells in tracheal regeneration following transplantation of a cryopreserved aortic graft**

*Poster Presenter:* Clara Cretet-Rodeschini (France)

*Poster Walk*

12:15 - 13:45

Poster Area

**Viruses***Chair:* Ling Chen (China)*Chair:* Forgu Esemu Livo (Yaoundé, Cameroon)

II.546 **Antibody responses targeting different epitopes on dengue envelope protein: implications for protection and pathogenesis**

*Poster Presenter:* Sokchea Lay (Cambodia)

II.549 **Quercetin-3-Methyl Ether Triggers Early Apoptosis to Counteract Human Rhinovirus 1B Immune Evasion, Inhibit Viral Replication, and Alleviate Inflammatory Pathogenesis**

*Poster Presenter:* Seo-Hyeon Mun (Korea, Republic of)

II.551 **Epitope focusing of humoral immune responses in highly antigen-experienced vaccine recipients**

*Poster Presenter:* Anne Maria Hahn (Australia)

II.552 **ULBP2-expressing HCMV mutants affect NK cell function and activation**

*Poster Presenter:* Greta Meyer (Germany)

II.553 **ULBP2-expressing HCMV mutants modulate NKG2D expression and function of CD8+ T cells**

*Poster Presenter:* Irina Bevzenko (Germany)

II.554 **Long-term antibody responses to Ebola virus and the vaccine vector after rVSV-ZEBOV vaccination in DRC**

*Poster Presenter:* Christian Kahusu Mwan-za-k'a (Congo (Democratic Republic))

II.555 **Glutamate exporter xCT promotes cGAS-dependent anti-viral responses**

*Poster Presenter:* Julia Blay-Cadanet (Denmark)

II.556 **Infectious interactions: how epithelial cells determine the outcome of respiratory viral infections in concert with activated monocyte-macrophage responses**

*Poster Presenter:* Lisabeth Pimenov-Reifelsthammer (Austria)

II.557 **Development of a novel adenoviral vector-based universal influenza vaccine that provides protection against seasonal and potential pandemic influenza viruses**

*Poster Presenter:* Suresh K. Mittal (United States)

II.558 **Evaluating the immune response to Epstein-Barr virus in young transgender people**

*Poster Presenter:* Jonatan Leffler (Australia)

II.561 **Significance of T cell lymphopenia and infection of the thymus in viral infections**

*Poster Presenter:* Xiaobo Huang (Finland)

II.562 **Bocavirus-specific antibodies target sequential epitopes on capsid protein VP1**

*Poster Presenter:* Maja Bajic (Austria)

II.563 **Influenza hijacks an unusual monocyte to cause collateral damage in the heart**

*Poster Presenter:* Jeffrey Downey (United States)

II.564 **Usp18 (UBP43) and acid ceramidase in modulating virus propagation in different myeloid cell populations, and how this affects immune activation, virus control and disease onset**

*Poster Presenter:* Karl Lang (Germany)

II.567 **STAT1 signaling in splenic stromal cells contributes to the antiviral defense against murine cytomegalovirus**

*Poster Presenter:* Andrzej Gruza (Austria)

II.568 **Modification of inner mitochondrial membrane architecture contributes to early innate immune defence**

*Poster Presenter:* Ichiro Katahira (Germany)

*Poster Walk*

12:15 - 13:45

Poster Area

**Rheumatology**

*Chair:* Michael Bonelli (Austria)

*Chair:* Maria Zakharova (Moscow, Russian Federation)

II.470 **Exosomal influence on macrophage polarization: Insights into the immunopathogenesis of adult-onset Still's disease**

*Poster Presenter:* Hyoun-Ah Kim (Korea, Republic of)

II.471 **Trained immunity enhances monocyte-T-cell pathogenic crosstalk in ankylosing spondylitis**

*Poster Presenter:* Liye Chen (United Kingdom)

II.472 **Investigation of IgA1 glycosylation and inflammatory mechanisms in ankylosing spondylitis**

*Poster Presenter:* Hui-Ling Chiang (Taiwan)

II.473 **Aptamers targeting fibroblast-like synoviocytes in inflammatory arthritis**

*Poster Presenter:* Jessica Lange (Austria)

II.474 **Epigenetic inhibitors: a novel treatment for rheumatoid arthritis**

*Poster Presenter:* Marie Brinkmann (Austria)

II.475 **Activation of TRPA1 affects the function of human fibroblast-like synoviocytes in rheumatoid arthritis**

*Poster Presenter:* Gabor Tajti (Austria)

II.476 **Pharmacokinetics of the systemic application of hyaluronic acid for joint arthritis treatment**

*Poster Presenter:* Lukas Kubala (Czech Republic)

II.477 **Therapeutic activity and biodistribution of a nano-sized polymer-drug conjugates intended for the targeted treatment of rheumatoid arthritis**

*Poster Presenter:* Daniela Rubanová (Czech Republic)

II.478 **Plasma levels of monounsaturated fatty acids (MUFA) are associated with disease activity in patients with rheumatoid arthritis (RA)**

*Poster Presenter:* Beatriz Yae Hanaoka (United States)

II.479 **Cytokine profiles in active rheumatoid arthritis and their involvement in non-inflammatory biological processes**

*Poster Presenter:* Valeria Miroslava Limón López (Mexico)

II.480 **Clinical features of the course of rheumatoid arthritis in Kyrgyzstan**

*Poster Presenter:* Roman Khanferyan (Kyrgyzstan)

II.481 **A Cross-Tissue, Single-Cell Atlas of HLA-B27-Positive Axial Spondyloarthritis**

*Poster Presenter:* Liying Jin (China)

II.482 **T-Cell Responses in Rheumatoid Arthritis: Insights from a Humanized Mouse Model**

*Poster Presenter:* Sofya Ulanova (Canada)

II.483 **New insights into the pathogenesis of Ankylosing Spondylitis**

*Poster Presenter:* Hui-Ling Chiang (Taiwan)

II.484 **Characterization of IL-17 receptor family expression in B lymphocytes as potential therapeutic targets in patients with rheumatoid arthritis**

*Poster Presenter:* Christian Fernando Coronado González (Mexico)

II.485 **Surface characterization of F<sub>c</sub> gamma receptors (F<sub>c</sub>γRs) in patients with Kawasaki Disease: Impact of intravenous immunoglobulin therapy**

*Poster Presenter:* Vibhu Joshi (India)

II.486 **Synergistic analysis of autoantigenic peptide repertoire presented by Rheumatoid Arthritis-associated HLA class II**

12:15 - 12:19

*Poster Presenter:* Maria Zakharova (Russian Federation)

II.487 **Inhibition of LPS-induced MMP-1 production in SW982 cell line by anti-CD63 monoclonal antibody**

*Poster Presenter:* Panida Khunkaewla (Thailand)

*Poster Walk*

12:15 - 13:45

Poster Area

## T cells 2

*Chair:* Luciana Berod (Germany)

*Chair:* Ellen Rothenberg (United States)

II.506 **Chemically-induced protein degradation reveals inflammation-dependent requirement for Treg lineage-defining transcription factor FOXP3**

*Poster Presenter:* Christina Jäger (Austria)

II.507 **Genetic and epigenetic regulation of Treg cell fitness by autism-related chromatin remodeler CHD8**

*Poster Presenter:* Fukun Guo (United States)

II.508 **Microbiota-induced intestinal Treg cells modulate neuroinflammation**

*Poster Presenter:* Rebecca Jasser (Germany)

II.510 **The presence of endocytic receptors varies depending on the stimulation of Treg cells**

*Poster Presenter:* Miroslav Tibenský (Slovakia)

II.511 **Regulatory T cells require IL-6 receptor alpha signaling to control skeletal muscle function and regeneration**

*Poster Presenter:* Maike Becker (Germany)

II.512 **Impact of CCL22 and CCL17 on pancreatic Treg cells in islet autoimmunity**

*Poster Presenter:* Gianmarco Spata (Germany)

II.515 **Renal Treg instability in a preclinical model of hypertension**

*Poster Presenter:* Bianca Nguyen (United States)

II.516 **TNF-signaling facilitates a non-canonical pathway for thymic Treg cell development**

*Poster Presenter:* Ryoji Kawakami (Japan)

II.517 **Uncovering novel targets to boost regulatory T cell phenotype**

*Poster Presenter:* Ariane Walsh (Germany)

II.518 **IL-18 reprograms Tregs into IFN- $\gamma$  producing T cells and impairs**

**their suppressive capacity***Poster Presenter:* Tania GAJARDO (France)

II.519 **Xpr1 deficiency dysregulates CD4+ T-cell responses by impaired calcium signalling and increased mTOR activation**

*Poster Presenter:* Marion Mengel (Germany)

II.520 **Induction of T cell anergy by blocking CD28/CD80 interaction: use Cyn-1324 as a novel approach to treat allergic asthma**

*Poster Presenter:* Chieh-Ying Kuo (Taiwan)

II.521 **Long intergenic noncoding RNA, LINC01871 is exclusively expressed in T and NK cells and is highly induced upon T-cell activation**

*Poster Presenter:* Amogh Vinay Ranade (Finland)

II.522 **DISC-PEN, a divisional indexing method in single-cell RNA-seq to unravel novel regulators in CD4 T cell differentiation**

*Poster Presenter:* Mehrdad Pazhouhandeh (Australia)

II.523 **IL-2 Mediates Human Bystander CD8<sup>+</sup> T Cell Responses to Innate Immune Signals**

*Poster Presenter:* Tamara Schenk (Netherlands)*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 4***Chair:* Mariana Maccioni (Córdoba, Argentina)*Chair:* Shinya Sakaguchi (Austria)

II.194 **PGE<sub>2</sub> released by tumor cells dying of ferroptosis limits cDC1-mediated anti-cancer immunity**

*Poster Presenter:* Lukas Ramsauer (Germany)

II.195 **Generation of immunocompetent human prostate cancer organoids**

*Poster Presenter:* Julia Kzhyshkowska (Germany)

II.196 **Foamy CD68+ TAMs as indicators of dynamic intratumoral immunometabolism in prostate cancer**

*Poster Presenter:* Julia Kzhyshkowska (Germany)

II.197 **Benchmarking bulk RNA-seq immune cell deconvolution in breast cancer tissue**

*Poster Presenter:* Hatice Toprak Dogramaci (Norway)

II.199 **BET inhibitor in combination with BCL-2 or BTK inhibitors in chronic lymphocytic leukemia (CLL) cells modulates genes associated with disease progression**

*Poster Presenter:* Bruna Lins Pansonato (Brazil)

II.200 **The role of Complement System in Allergic and Oncologic Disease**

*Poster Presenter:* Luljeta Ahmetaj (Kosovo)

II.201 **Modelling immune-excluded tumors in mouse breast cancer models using 3D spheroid injections**

*Poster Presenter:* Egle Zymantaite (Lithuania)

II.202 **Contribution of mast cellsto intratumoral endothelial senescence**

*Poster Presenter:* Julissa Gonzalez Gonzalez (Mexico)

II.207 **Identification of the mimotope/B cell peptide of lemezparlimab - one step closer toward vaccination-based immunotherapy against CD47 overexpressing tumors**

*Poster Presenter:* Joshua Tobias (Austria)

II.209 **Rejuvenating exhausted tumor-infiltrating T cells by bispecific DC-T cell engager**

*Poster Presenter:* Xuhao Zhang (China)

II.212 **Immunoregulatory roles of DANCR in immune evasion and poor prognosis in melanoma**

*Poster Presenter:* Ege Amirak (Turkey)

II.213 **T-cell infiltration and pro-apoptotic BAX expression in tumors of head and neck cancer patients treated with novel vaccine, anti-GITR, and anti-PD-L1 therapy**

*Poster Presenter:* Shawn M. Jensen (United States)

*Poster Walk*

12:15 - 13:45

Poster Area

**Immunity across ages**

*Chair:* Janko Nikolic (United States)

*Chair:* Houda Yacoub-Youssef (Tunis, Tunisia)

II.272 **Unraveling the Genetic Landscape of Skin Aging: Key Genes in Wound Healing and Immune Function**

*Poster Presenter:* Maryam Kaboli (Iran)

II.273 **Alterations in bacterial sensing drive immune ageing**

*Poster Presenter:* Martin Lukačišin (Slovakia)

II.275 **Effect of punicalagin on the viability of bovine mononuclear cells**

*Poster Presenter:* Petr Slama (Czech Republic)

II.277 **Offspring immunity is altered by maternal SARS-CoV-2 infection**

*Poster Presenter:* Jiaqi Shen (Austria)

II.276 **Innate immune responsiveness 6 weeks after birth is highly reduced in HIV exposed but uninfected neonates**

*Poster Presenter:* Mzabalazo Nsimbi (South Africa)

II.278 **Distinct regulation of type 1 interferon responses in neonates compared to adults**

*Poster Presenter:* Lucy Hartnell (Australia)

II.279 **Characterization of the B cell response in HIV exposed uninfected infants**

*Poster Presenter:* Rodrigo Tonalli Camacho-Pacheco (Mexico)

II.280 **Maternal obesity and its impact on neonatal immune response**

*Poster Presenter:* María Fernanda Aguilar Dueñas (Mexico)

II.281 **Altered expression of ectonucleotidases might contribute to immunosuppression in newborns**

*Poster Presenter:* Anna Julia Pietrobon (Brazil)

II.282 **Characterization of dendritic cells in human colostrum**

*Poster Presenter:* Sergio García-Juárez (Mexico)

II.283 **Distinct inflammation and T cell activation profiles associate with reduced T cell responses in HIV-exposed uninfected newborns**

*Poster Presenter:* Moritz Schmiedeberg (Germany)

II.285 **Age-dependent trajectories of antigen-specific IL-17 and IL-22 responses in naive T cells**

*Poster Presenter:* Katrin Vogel (Germany)

II.288 **Immunosenescence signature in Lewy body diseases**

*Poster Presenter:* Petra Laznickova (Czech Republic)

II.289 **Disease-associated microglia and activated CD8+ T cell driven neuroinflammation precede neuronal cell loss in a model of hereditary spastic paraplegia**

*Poster Presenter:* Aleksej Frolov (Germany)

II.290 **Neuroinflammation during influenza A infection**

*Poster Presenter:* Jana Blaškovičová (Slovakia)

*Poster Walk*

12:15 - 13:45

Poster Area

**COVID**

*Chair:* Andreas Bergthaler (Austria)

*Chair:* Laura Cook (Melbourne, Australia)

II.526 **Public TCR usage by dominant SARS-CoV-2 spike-specific CD4+ T cells are associated with mild disease and increased cytotoxicity four-years post COVID-19**

*Poster Presenter:* Elie Antoun (United Kingdom)

II.529 **Long-term immune profiling of COVID-19 recovered patients: effects of disease severity and vaccination**

*Poster Presenter:* Thomas Marandu (Tanzania)

II.530 **Understanding the association between immunosenescence and long COVID**

*Poster Presenter:* Huai Hui Wong (Finland)

II.531 **Uncovering of novel neutrophil immune signatures with stratification potential in post-COVID condition**

*Poster Presenter:* Ioanna Papatheodorou (Czech Republic)

II.533 **Comprehensive analysis of anti-SARS-CoV-2 humoral response in patients recovered from Wuhan and Delta variants**

*Poster Presenter:* Mariia Sukhova (Russian Federation)

II.535 **Binding properties of SARS-CoV-2 N-protein to heparan sulphates and inflammatory effects induced by its immune complexes**

*Poster Presenter:* Gwenaëlle Le Roux (France)

II.536 **Effects of the COVID19 infection in the IFN- $\gamma$  signaling pathway**

*Poster Presenter:* Velia Veronica Rangel Ramírez (Mexico)

II.537 **Divergent inflammatory and neurology-related plasma protein profiles in individuals with long COVID following primary and breakthrough SARS-CoV-2 infections**

*Poster Presenter:* Emily M Eriksson (Australia)

II.539 **SARS-CoV-2-modulated microbiota induces persistent inflammation and depressive-like behavior similar to Long COVID sequelae**

*Poster Presenter:* Jackeline Marino Lucas (Brazil)

II.541 **Dynamics of immune dysregulation and the contribution of circulating proinflammatory extracellular vesicles to MIS-C pathogenesis**

*Poster Presenter:* Tugce Canavar Yildirim (Turkey)

II.542 **A 4-year follow-up on vaccine responses in multiple myeloma patients after SARS-CoV-2-booster vaccination and infection**

*Poster Presenter:* Maria Orola-Taus (Austria)

II.544 **COVID-19 lung imprinting and consequences for disease development**

*Poster Presenter:* Jessica Brösamlen (Austria)

II.545 **Characterization of T-Cell immune responses to SARS-CoV-2 and**

**cross-reactivity to variants of concern in South African children***Poster Presenter:* Ntombi S B Benede (South Africa)*Poster Walk*

12:15 - 13:45

Poster Area

**Autoimmunity 1***Chair:* Kensuke Miyake (Japan)

II.039 **Neuropeptide Catestatin modulates nerve-immune related inflammation**

*Poster Presenter:* Elke Muntjewerff (Sweden)

II.040 **Impact of the A09/A15 epitope on structural assembly and function of C1q in the light of Systemic Lupus Erythematosus**

*Poster Presenter:* Julianne Klehr (Switzerland)

II.041 **Metabolic abnormalities characteristic of B-cells in Systemic Lupus Erythematosus**

*Poster Presenter:* Elias Rosenlehner (Germany)

II.042 **B lymphocytes subpopulations association with peripheral T follicular cells in patients with Systemic Lupus Erythematosus (SLE) in remission**

*Poster Presenter:* Asimina Fylaktou (Greece)

II.044 **Is there a protection of peripheral CD4 T cells and T follicular cells in the development of cardiomyopathy in SLE and Lupus Nephritis (LN) patients?**

*Poster Presenter:* Asimina Fylaktou (Greece)

II.046 **AI machine learning reveals the novel gene UHRF1P as a biomarker for systemic lupus erythematosus and an inhibitor of UHRF1 E3 ligase**

*Poster Presenter:* Huai-Chia Chuang (Taiwan)

II.047 **The SUMOylation of Blimp-1 Negatively Modulates Th1 and Th17 Cell Responses in T Cell-Mediated Inflammatory Diseases**

*Poster Presenter:* Shin-Huei Fu (Taiwan)

II.050 **Multi-modal interrogation of autoimmune disease patients reveals highly diverse biomarker signatures**

*Poster Presenter:* Olha Novokhatska (Germany)

II.054 **Role of DJ-1 in the Pathological Activity of Synoviocytes and Cartilage Destruction in Rheumatoid Arthritis**

*Poster Presenter:* Giheon Jeong (Korea, Republic of)

II.055 **Goat Whey Proteins Attenuate Immune Mediated Liver Injury in Mice**

*Poster Presenter:* Natalia Solovjova (Serbia)

II.056 **BBB-penetrant selective ROCK2 inhibitor ameliorates a murine model of multiple sclerosis by harnessing inflammation and demyelination**

*Poster Presenter:* Julien MORETTI (United States)

II.057 **Streptozotocin induced type 1 diabetes disturbs immune cell populations and increases osteoclast progenitor pool**

*Poster Presenter:* Marta Radošević (Croatia)

## Poster Walk

12:15 - 13:45

Poster Area

**Infectious diseases 2**

Chair: Shailza Singh (India)

Chair: Musa Khaivor (Russian Federation)

II.332 **Deciphering the traits of human immune response to Japanese Encephalitis virus in different disease outcomes**

*Poster Presenter:* Suvechchha Pandit (India)

II.334 **Investigating the role of Cysteinyl leukotriene receptor 2 signalling during cutaneous Leishmaniasis**

*Poster Presenter:* Rebeng Maine (South Africa)

II.335 **Association between rs4804803 G allele of the CD209 and Post-Chikungunya Chronic Arthropathy**

*Poster Presenter:* Patricia Moura (Brazil)

II.336 **IL-17 is associated with protection in human visceral leishmaniasis**

*Poster Presenter:* Om Prakash Singh (India)

II.337 **Bioinformatic analysis of organoboron compounds in Aro 8, Aro 9, and EPA1 from *Candida* spp. (*Candida albicans* and *Candida glabrata*)**

*Poster Presenter:* Juan Ernesto López-Ramos (Mexico)

II.339 **Interleukin-27 receptor-alpha and Epstein-Barr virus-induced gene 3-deficient mice display differential susceptibility to *Mycobacterium tuberculosis* infection**

*Poster Presenter:* Kristina Ritter (Germany)

II.341 **Heterogeneity in immune cell function defines immunotypes of extrapulmonary tuberculosis**

*Poster Presenter:* Kilian Dahm (Germany)

II.342 **The common carp (*Cyprinus carpio*) mounts an IgT antibody response against the myxozoan (Cnidaria) *Sphaerospora molnari***

*Poster Presenter:* Justin Tze Ho Chan (Austria)

II.344 **Auxotrophic *Salmonella* Typhimurium generates a diverse IgA humoral response cross-reactive to several pathogenic *Salmonella* typhimurium strains**

*Poster Presenter:* Francisco Osorio Barrios (Switzerland)

II.345 **Serotype-specific and time-dependent macrophage responses to Group B *Streptococcus*: distinct pathways of pyroptosis and immune evasion**

*Poster Presenter:* Larisa Janzic (Slovenia)

II.346 **Flow cytometry-based method to distinguish the immune response of patients after *Mycobacterium tuberculosis* infection. Verification of pilot study results**

*Poster Presenter:* Markéta Ibrahimová (Czech Republic)

II.347 **Interleukin-4 receptor alpha (IL-4R $\alpha$ ) signalling on T cells in Tuberculosis**

*Poster Presenter:* Suraj P Parihar (South Africa)

II.348 **Deficiency of IRF3 promotes a beneficial neutrophil response to severe pulmonary bacterial infection**

*Poster Presenter:* Heng Li (Singapore)

II.350 **Outer membrane vesicles of *Klebsiella pneumoniae* decrease bactericidal properties of alveolar macrophages**

*Poster Presenter:* Mohammad Estiri (Germany)

II.351 **Human epidermal Langerhans cells induce tolerance and drive immune evasion upon tick-borne pathogen transmission**

*Poster Presenter:* Johanna Strobl (Austria)

*Industry Session*

12:30 - 13:30

Hall E1

**Industry session**

*Award Lecture*

12:30 - 13:30

Hall N

**Acteria Awards: itching news from IgE and IELs to neuronal circuits**

*Chair:* Federica Sallusto (Switzerland)

*Chair:* Anne Hosmalin (France)

*Industry Session*

12:30 - 13:15

Room 1.34

**Industry session**

*Editors' Panel*

13:45 - 15:15

Hall A

**Meet the Editors**

*Chair:* Brian Brown (United States)

*Panellist:* Cheri Sirois (United States)

*Panellist:* Ross McGlenon (United Kingdom)

*Panellist:* Ching-yu Huang (China)

*Panellist:* Ursula Weiss (United Kingdom)

*Panellist:* Sarah Ross (United Kingdom)

*Panellist:* Lucie Laurien (Netherlands)

*Panellist:* Laurie Dempsey (United States)

*Panellist:* Alexandra Flemming (United Kingdom)

*Panellist:* Seth Scanlon (United Kingdom)

*Symposium*

13:45 - 15:15

Hall E1

**Metabolic regulation of immune responses**

*Chair:* Luciana Berod (Germany)

*Chair:* Vanderlei da Silva Fraga-Junior (Rio de Janeiro, Brazil)

**Metabolic regulation of innate cells**

13:45 - 14:10

*Symposium Speaker:* Jose C. Alves-Filho (Brazil)

**Posttranslational protein modifications at the intersection between metabolism and immunity**

14:10 - 14:35

*Symposium Speaker:* Luciana Berod (Germany)

**Metabolic regulation of tissue homeostasis by macrophages**

14:35 - 15:00

*Symposium Speaker:* Thomas Weichhart (Austria)

**Panel discussion**

15:00 - 15:15

*Symposium*

13:45 - 15:15

Hall E2

**Breaking Barriers & Building Bridges: Cultivating the next generation of global immunologists (EDU)**

*Chair:* Clive Gray (South Africa)

*Chair:* Dieter Kabelitz (Germany)

**Introduction and framework for the session**

*Chair:* Clive Gray (South Africa)

*Chair:* Dieter Kabelitz (Germany)

<b>A 10 year building block: a 10 year history of teaching immunology in LMICs</b>	13:45 - 14:05
<i>Symposium Speaker:</i> Mehrnaz Mesdaghi (Iran)	
<i>Symposium Speaker:</i> Sawsan Feki (Tunisia)	
<i>Symposium Speaker:</i> Janet Valdez Tejeira (Canada)	
<b>Online Pre-Course Learning</b>	14:05 - 14:15
<i>Symposium Speaker:</i> Roslyn Kemp (New Zealand)	
<i>Symposium Speaker:</i> Tracey Lamb (United States)	
<b>Regional Focus: Specific learning priorities, learning programs, and challenges faced by each region will be discussed.</b>	14:15 - 14:35
<i>Symposium Speaker:</i> Guillermo Docena (Argentina)	
<i>Symposium Speaker:</i> Tineke Cantaert (Cambodia)	
<i>Symposium Speaker:</i> Tomabu Adjobimey (Benin)	
<b>Dialogue for the future and opening new approaches</b>	14:35 - 15:15
<i>Symposium Speaker:</i> Sawsan Feki (Tunisia)	
<i>Symposium Speaker:</i> Tomabu Adjobimey (Benin)	
<i>Symposium</i>	
13:45 - 15:15	Hall F1
<b>Respiratory immunology</b>	
<i>Chair:</i> Hans-Uwe Simon (Switzerland)	
<i>Chair:</i> Wuji Zhang (China)	
<b>Harnessing barrier to prevent hypersensitivity diseases</b>	13:45 - 14:10
<i>Symposium Speaker:</i> Cezmi Akdis (Switzerland)	
<b>Bronchial Asthma - from mechanism to therapy</b>	14:10 - 14:35
<i>Symposium Speaker:</i> Harald Renz (Germany)	
<b>Eosinophils and disease</b>	14:35 - 15:00
<i>Symposium Speaker:</i> Hans-Uwe Simon (Switzerland)	
<b>Panel discussion</b>	15:00 - 15:15
<i>Symposium</i>	
13:45 - 15:15	Hall F2
<b>Regulation of central and peripheral tolerance</b>	
<i>Chair:</i> Claudia A. Rivera Cifuentes (Bethesda, United States)	
<i>Chair:</i> Nicole Joller (Switzerland)	
<b>The co-inhibitory receptor TIGIT promotes tissue protection and repair</b>	13:45 - 14:10
<i>Symposium Speaker:</i> Nicole Joller (Switzerland)	
<b>Determinants of central T cell tolerance</b>	14:10 - 14:35
<i>Symposium Speaker:</i> Ludger Klein (Germany)	
<b>Regulatory B cells in autoimmunity</b>	14:35 - 15:00
<i>Symposium Speaker:</i> Claudia Mauri (United Kingdom)	
<b>Panel discussion</b>	15:00 - 15:15
<i>Symposium</i>	
13:45 - 15:15	Hall M
<b>Visualizing immunity (American Association of Immunologists - AAI)</b>	
<i>Chair:</i> Ulrich H. von Andrian (United States)	
<b>Far from home: T cell migration through non-lymphoid organs</b>	13:45 - 14:10
<i>Society Symposium Speaker:</i> Susan Schwab (United States)	

<b>Imaging antibody affinity maturation</b>	14:10 - 14:35
<i>Society Symposium Speaker:</i> Gabriel Victora (United States)	
<b>Tissue-specific immune regulation within the upper airway</b>	14:35 - 15:00
<i>Society Symposium Speaker:</i> Ashley Moseman (United States)	
 <i>Symposium</i>	
13:45 - 15:15	Hall N
<b>Immunity mediated by innate lymphocytes (EFIS)</b>	
<i>Chair:</i> Gunnur Deniz (Istanbul, Turkey)	
<i>Chair:</i> Bojan Polić (Croatia)	
<b>Mechanisms of NK cell clonality</b>	13:45 - 14:10
<i>Society Symposium Speaker:</i> Chiara Romagnani (Germany)	
<b>New insights on the activation and regulation of gamma-delta T cells</b>	14:10 - 14:35
<i>Society Symposium Speaker:</i> Bruno Silva-Santos (Portugal)	
<b>Human innate lymphoid cells in colon inflammation and tumors</b>	14:35 - 15:00
<i>Society Symposium Speaker:</i> Jenny Mjösberg (Sweden)	
 <i>Symposium</i>	
13:45 - 15:15	Hall L1 & L2
<b>The IUIS Junior Community: perspectives from driving immunological research across the globe (ECC)</b>	
<i>Chair:</i> Lee-Hwa Tai (Sherbrooke, Canada)	
<i>Chair:</i> Adeleye Adeshakin (Memphis, United States)	
<b>Welcome address and introduction to the IUIS Junior Community</b>	13:45 - 13:50
<b>From exploring the immunometabolism of tuberculosis to unravelling factors influencing research assessment</b>	13:50 - 14:15
<i>Symposium Speaker:</i> Luciana Balboa (Argentina)	
<b>Mechanisms of immune-mediated radiotherapy resistance in squamous cell carcinomas</b>	14:15 - 14:40
<i>Symposium Speaker:</i> Ayman Oweida (Canada)	
<b>Immune and metabolic effects of African heritage diets versus Western diets in men: a randomized controlled trial</b>	14:40 - 14:50
<i>Oral Abstract Presenter:</i> Tal Pecht (Germany)	
<b>TIF1γ regulates stability of regulatory T cells during inflammation</b>	14:50 - 15:00
<i>Oral Abstract Presenter:</i> Eugenio Contreras Castillo (Mexico)	
<b>Insulin signalling regulates B cell function and metabolism</b>	15:00 - 15:10
<i>Oral Abstract Presenter:</i> Sue Tsai (Canada)	
<b>Public vote for best talk</b>	15:10 - 15:15
 <i>Symposium</i>	
13:45 - 15:15	Hall L3
<b>Sex and Gender and Immunology (GEC)</b>	
<i>Chair:</i> Sylvia Knapp (Vienna, Austria)	
<i>Chair:</i> Roslyn Kemp (New Zealand)	
<b>Sensitive periods in brain development determined by the immune system: relevance to sex differences</b>	13:45 - 14:15
<i>Symposium Speaker:</i> Anna Maximova (United States)	
<b>Global perspectives to enhance strategies for advancing women in healthcare and STEMM leadership</b>	14:15 - 14:45

*Symposium Speaker:* Roslyn Kemp (New Zealand)

*Break*

15:15 - 15:45

Exhibition Hall

**Coffee Break (Exhibition Hall)**

*Keynote Lecture*

15:45 - 16:15

Hall A

**Specificity, reactivity, and adaptive immunity**

*Chair:* Caetano Reis e Sousa (United Kingdom)

**Specificity, reactivity, and adaptive immunity**

15:45 - 16:15

*Keynote Speaker:* Ruslan Medzhitov (United States)

*Rising Star*

16:15 - 17:00

Hall A

**Rising stars**

*Chair:* Laurence Zitvogel (France)

**Macrophages in tumors, not always the bad guys**

16:15 - 16:25

*Rising Star Awardee:* Rodrigo Nalio Ramos (Brazil)

**Unveiling dendritic cell subsets in humans: new molecular mechanisms for enhancing tumor immunity**

16:25 - 16:35

*Rising Star Awardee:* Akira Takeda (Finland)

**Can a B cell eat a parasite?**

16:35 - 16:45

*Rising Star Awardee:* Xin (Andy) Gao (Australia)

**Discussion**

16:45 - 17:00

*Keynote Lecture*

17:00 - 17:30

Hall A

**Metabolic mechanisms governing the impact of the gut microbiota in cancer immuno-surveillance**

*Chair:* Abdallah Badou (Morocco)

**Metabolic mechanisms governing the impact of the gut microbiota in cancer immuno-surveillance**

17:00 - 17:30

*Keynote Speaker:* Laurence Zitvogel (France)

*Industry Session*

17:45 - 18:30

Hall L1 & L2

**Industry session**

*Industry Session*

17:45 - 18:30

Hall L3

**Industry session**

*Industry Session*

17:45 - 18:30

Room 1.34

**Industry session**

*Networking Event*

19:30 - 22:00

Offsite

**Immunology run**

**Thursday, 21. August 2025***Symposium*

08:30 - 10:00

Hall A

**Vaccines against difficult targets***Chair:* Ursula Wiedermann (Austria)*Chair:* Rita Carselli (Italy)**Personalized RNA-neoantigen vaccines**

08:30 - 08:55

*Symposium Speaker:* Vinod Balachandran (United States)**Vaccines against antimicrobial resistance**

08:55 - 09:20

*Symposium Speaker:* Rita Carselli (Italy)**Rational design of an optimised malaria vaccine candidate**

09:20 - 09:45

*Symposium Speaker:* Hedda Wardemann (Germany)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall E1

**Type II immunity***Chair:* Hamida Hammad (Belgium)*Chair:* Paola Andrea Martinez Murillo (Davos, Switzerland)**Type II immunity and asthma**

08:30 - 08:55

*Symposium Speaker:* Hamida Hammad (Belgium)**Lung inflammation**

08:55 - 09:20

*Symposium Speaker:* Clare M. Lloyd (United Kingdom)**Pathogenic Th2 cells and allergic airway inflammation**

09:20 - 09:45

*Symposium Speaker:* Nicole Boucheron (Austria)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall E2

**Cancer immunotherapy II - Clinical application***Chair:* Tanja Jesenko (Slovenia)*Chair:* Chen Ni (Germany)**Monitoring the dynamics of circulating tumor cells during neoadjuvant systemic therapy in early breast cancer**

08:30 - 08:55

*Symposium Speaker:* Tanja Jesenko (Slovenia)**Checkpoint inhibitors - clinical trials**

08:55 - 09:20

*Symposium Speaker:* Padmanee Sharma (United States)**NK cell therapy**

09:20 - 09:45

*Symposium Speaker:* Eric Vivier (France)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall F1

**T cell exhaustion in infection and cancer***Chair:* Shinya Sakaguchi (Austria)*Chair:* Noushin Zibandeh (Oxford, United Kingdom)**T cell exhaustion during viral infection**

08:30 - 08:55

*Symposium Speaker:* Dietmar Zehn (Germany)

**T cell stemness and exhaustion in chronic infection and cancer**

08:55 - 09:20

*Symposium Speaker:* Axel Kallies (Australia)

**Factors that regulate T cell fates in cancer**

09:20 - 09:45

*Symposium Speaker:* Chen Dong (China)

**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall F2

**Intercellular communication in tissues**

*Chair:* Ajithkumar Vasanthakumar (Melbourne, Australia)

*Chair:* Karoline Strobl (Vienna, Austria)

**Pregnancy induced tissue-resident memory T cells protect against breast cancer**

08:30 - 08:55

*Symposium Speaker:* Ajithkumar Vasanthakumar (Australia)

**Immune regulation during pregnancy**

08:55 - 09:20

*Symposium Speaker:* Taruna Madan (India)

**Spatial control of tumor immunity and mRNA therapeutics**

09:20 - 09:45

*Symposium Speaker:* Brian Brown (United States)

**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall M

**Nucleic acids and immunity**

*Chair:* Kensuke Miyake (Japan)

*Chair:* Ege Amirak (Izmir, Turkey)

**lncRNAs in macrophage differentiation**

08:30 - 08:55

*Symposium Speaker:* Susan Carpenter (United States)

**Control of lymphocyte development and effector function by RNA-binding proteins**

08:55 - 09:20

*Symposium Speaker:* Vigo Heissmeyer (Germany)

**Toll-like receptor responses to lysosomal nucleic acid stress**

09:20 - 09:45

*Symposium Speaker:* Kensuke Miyake (Japan)

**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall N

**Novel approaches combating infectious diseases**

*Chair:* Juliana Cassataro (Argentina)

*Chair:* Anne Maria Hahn (Melbourne, Australia)

**Discovery of new mucosal vaccine adjuvants and development of a booster vaccine against SARS-CoV2**

08:30 - 08:55

*Symposium Speaker:* Juliana Cassataro (Argentina)

**siRNA-based treatment for COVID-19**

08:55 - 09:20

*Symposium Speaker:* Musa Khatov (Russian Federation)

**Protein subunit vaccines for COVID-19**

09:20 - 09:45

*Symposium Speaker:* George F. Gao (China)

**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall L1 &amp; L2

**Neuro-immune interactions***Chair:* David Hafler (United States)*Chair:* Conceição Elidianne Aníbal Silva (Ribeirão Preto, Brazil)**More than just a symptom: pain sensation in inflammation and cancer**

08:30 - 08:55

*Symposium Speaker:* Ulrich H. von Andrian (United States)**IFN $\gamma$ -secreting CD4 cells migrating from the gut to CNS regulates behavior**

08:55 - 09:20

*Symposium Speaker:* David Hafler (United States)**Neuroimmune circuits: Navigating protection and harm**

09:20 - 09:45

*Symposium Speaker:* Michel Enamorado (United States)**Panel discussion**

09:45 - 10:00

*Symposium*

08:30 - 10:00

Hall L3

**Tackling immunological disorders and co-morbidities in Africa (FAIS)***Chair:* Clive Gray (South Africa)*Chair:* Abdallah Badou (Morocco)**Introduction and setting the scene**

08:30 - 08:45

*Chair:* Clive Gray (South Africa)**The Microbial Jekyll and Hyde: Unmasking the dual nature of *Schistosoma mansoni* in Host Immune Modulation**

08:45 - 09:00

*Society Symposium Speaker:* Lucy Ochola (Kenya)**Immune Mechanisms and Translational Targets in Pregnancy-Associated Malaria: Insights from Ongoing Studies**

09:00 - 09:15

*Society Symposium Speaker:* Bernard Kanoi (Kenya)**Early-life immunity in HIV-Exposed Uninfected infants: Insights from responses to common pediatric infections**

09:15 - 09:30

*Society Symposium Speaker:* Forgu Esemu Livo (Cameroon)**Round Table: Sustainable funding  
WHO, Wellcome Trust, Gates Foundation, European Union, Networking, African Consortium, FAIS Legacy Project.**

09:30 - 10:00

*Chair:* Clive Gray (South Africa)*Chair:* Abdallah Badou (Morocco)*Break*

10:00 - 10:30

Exhibition Hall

**Coffee Break (Exhibition Hall)***Abstract Session*

10:30 - 12:00

Hall A

**Cancer immunotherapy part II***Chair:* Antonia Müller (Austria)*Chair:* Adeleye Adeshakin (Memphis, United States)**Modeling CAR-T cell migration and efficacy in a microphysiological system**

10:30 - 10:38

*Oral Abstract Presenter:* Rosanna Stolberg (Germany)**Radiation-induced tumor-derived migrasomes bridge innate and adaptive immune responses**

10:38 - 10:46

*Oral Abstract Presenter:* Yang Pu (China)

<b>Novel Fluorescent Dyes - Expanding the Spectrum of Flow Cytometry Solutions. A tale of optimization of a 39-color Immune Checkpoint Panel</b>	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Stella Autenrieth (Germany)	
<b>Immunoexpression, genetic, and epigenetic alterations of the PTEN gene in chronic myeloid leukemia: insights from the Indian population</b>	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Asgar Ali (India)	
<b>Moderating Regulatory T Cell Brakes in CAR T Cell Immunotherapy of Solid Tumors Through the CD4-CD28 Co-stimulation Axis</b>	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Surojit Sarkar (United States)	
<b>Regnase-1 KO B7-H3 CAR T cells for osteosarcoma: improved antitumor activity and potency to impact endogenous immune cells</b>	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Adeleye Adeshakin (United States)	
<b>mRNA-based engineering for flexible 'off-the-shelf' allogeneic T cell therapy</b>	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Shan He (Singapore)	
<b>CTLA4-CD28 chimera potentiates CAR-T cells via CD80/86 on both T and B cells</b>	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Seoho Lee (Korea, Republic of)	
<b>Microbiome-derived postbiotics integrate into CAR T cell metabolism and augment anti-tumor immunity</b>	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Maik Luu (Germany)	
<b>Progressive accumulation of circulating CD27<sup>+</sup>CD28<sup>-</sup> effector/memory CD8<sup>+</sup> T cells in lung cancer patients blunts responses to immune checkpoint inhibitor therapy</b>	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Sung-Woo Lee (Korea, Republic of)	
<b>Armored anti-macrophage CAR T cells remodel the tumor microenvironment and control metastatic ovarian and lung tumor growth</b>	11:50 - 11:58
<i>Oral Abstract Presenter:</i> Jaime Mateus-Tique (United States)	
 <b>Abstract Session</b>	
10:30 - 12:00	Hall E1
<b>Autoimmune diseases part II</b>	
<i>Chair:</i> Georg Stary (Austria)	
<i>Chair:</i> Teresa Preglej (Vienna, Austria)	
<b>Targeting the catalytic activity of HDAC1 in T-cells protects mice against experimental autoimmune encephalomyelitis</b>	10:30 - 10:38
<i>Oral Abstract Presenter:</i> Osamah Al-Rubaye (Austria)	
<b>C1q-Mimicking scFv Fragment binding anti-C1q autoantibodies has disease-progression effect in MRL/lpr Mouse Model of Systemic Lupus Erythematosus</b>	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Andrey Tchorbanov (Bulgaria)	
<b>Spatial immune network of clonal CXCL13<sup>+</sup>CD4<sup>+</sup> T cells and Tregs within tertiary lymphoid structures in chronic pemphigus blisters</b>	10:46 - 10:54
<i>Oral Abstract Presenter:</i> A Yeong Lee (Korea, Republic of)	
<b>Distribution of T peripheral helper (TPH), circulating T follicular helper (cTFH), and atypical memory B lymphocytes (CXCR5-CD11c+)</b> in patients with Sjogren's disease (SjD)	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Victor Manuel Menchaca Tapia (Mexico)	
<b>Iron deprivation counteracts systemic autoimmune inflammation</b>	11:02 - 11:10

**caused by Treg depletion***Oral Abstract Presenter:* Dana Costigan (United Kingdom)**Identification of Th17 cells with stemness features in crescentic glomerulonephritis**

11:10 - 11:18

*Oral Abstract Presenter:* Mingjie Lin (Germany)**CD19<sup>-</sup> plasma cells harbor distinct autoreactive subsets and are associated with lupus**

11:26 - 11:34

*Oral Abstract Presenter:* Van Duc Dang (Germany)**Engineered IL-35 protein to treat autoimmunity and inflammation**

11:34 - 11:42

*Oral Abstract Presenter:* Jun Ishihara (United Kingdom)**Mutated Nod2 enhances Th17 expansion and autoimmune uveitis in a T cell-dependent manner**

11:42 - 11:50

*Oral Abstract Presenter:* Leah Huey (United States)*Abstract Session*

10:30 - 12:00

Hall E2

**Innate mechanisms in cancer***Chair:* Wolfgang Weninger (Austria)*Chair:* Fabiola Gonzalez-Herrera (Santiago, Chile)**ATF3 characterizes aggressive drug-tolerant persister cells in HGSOC**

10:30 - 10:38

*Oral Abstract Presenter:* Chunguang Liang (Germany)**In silico analysis of single-cell RNA sequencing data identifies tumor associated macrophages with inflammatory and tissue remodeling profiles that differ from the M1/M2 bimodal classification**

10:38 - 10:46

*Oral Abstract Presenter:* Eric Lopez-Huerta (Mexico)**Development of anti-tumor immunity in ovarian cancer patients depending on the induction of a paraneoplastic syndrome**

10:46 - 10:54

*Oral Abstract Presenter:* Lena Wahl (Germany)**Myeloid-specific Ezh2 deficiency drives tumor-associated macrophages toward tumor promoting phenotypes in liver cancer model**

10:54 - 11:02

*Oral Abstract Presenter:* Tanapat Palaga (Thailand)**Induction of mature regulatory dendritic cells by nasopharyngeal carcinoma-derived extracellular vesicles: the influence of galectin-9**

11:02 - 11:10

*Oral Abstract Presenter:* Olivier Morales (France)**Dual Mechanisms of Clever-1 Inhibition with Bexmarilimab Plus Azacitidine in Myelodysplastic Syndrome: Translational Insights from the Phase 1/2 BEXMAB Study**

11:10 - 11:18

*Oral Abstract Presenter:* Maija Hollmén (Finland)**Targeting oxidation specific epitopes: identifying novel modulators of Myeloid Derived Suppressor Cell activation in cancer**

11:18 - 11:26

*Oral Abstract Presenter:* Tamina Österreicher (Austria)**Sucralose intake during gestation increases colitis-associated colorectal cancer in the offspring by altering the intestinal immune response**

11:26 - 11:34

*Oral Abstract Presenter:* Aranza Daniela Mejía Muñoz (Mexico)**Pattern recognition receptor Dectin-2 promotes immune responses against melanoma by macrophage-mediated phagocytosis**

11:34 - 11:42

*Oral Abstract Presenter:* Anna Teegen (Germany)

**Human Lung Macrophages and Circulating Monocytes Might Contribute to Bacterial Infection Susceptibility and Prognosis of Lung Cancer Patients**

11:42 - 11:50

Oral Abstract Presenter: Francesco Palestra (Italy)

*Abstract Session*

10:30 - 12:00

Hall F1

**Regulatory T cells**

Chair: Klaus Schmetterer (Austria)

Chair: Ayman Oweida (Canada)

**DECTIN-1: a modifier protein for CTLA-4 function and autoimmune disease**

10:30 - 10:38

Oral Abstract Presenter: Cynthia Turnbull (Australia)

**IL-34 empowers regulatory T cells with novel non-canonical function to safeguard brain barrier integrity in neuroinflammation**

10:38 - 10:46

Oral Abstract Presenter: Janne Verreycken (Belgium)

**ZFP36-family RNA-binding proteins in regulatory T cells reinforce immune homeostasis**

10:46 - 10:54

Oral Abstract Presenter: Sarah Bell (United Kingdom)

**The role of NF $\kappa$ B inducing kinase in regulatory T cells**

10:54 - 11:02

Oral Abstract Presenter: Zeynep Ergün (Germany)

**Intersectional gene targeting approach to study tissue-Treg adaptation**

11:02 - 11:10

Oral Abstract Presenter: Philipp Stüve (Germany)

**Conditional ablation of RNA-binding protein HuR (*Elavl1*) impairs Treg differentiation and function via control of *Foxp3* transcript stability, resulting in systemic autoimmunity**

11:10 - 11:18

Oral Abstract Presenter: Ulus Atasoy (United States)

**Uremic metabolites impair Tregs activation & metabolism**

11:18 - 11:26

Oral Abstract Presenter: Nicolas Valentini (Canada)

**Long noncoding RNA LIRIL2R modulates FOXP3 levels and suppressive function of human CD4+ regulatory T cells by regulating IL2RA**

11:26 - 11:34

Oral Abstract Presenter: Syed Bilal Ahmad Andrabi (Finland)

**Decidual CCR8<sup>+</sup> regulatory T cells in maintaining maternal-fetal immune tolerance during human pregnancy**

11:34 - 11:42

Oral Abstract Presenter: Xue Jiao (China)

**The adaptor protein TRAT1 modulates Th17 and Treg effector functions**

11:42 - 11:50

Oral Abstract Presenter: Tobias Frey (Austria)

*Abstract Session*

10:30 - 12:00

Hall F2

**Clinical immunology**

Chair: Vibhu Joshi (Chandigarh, India)

Chair: Stephan Blüml (Austria)

**Identification of 334 novel T cell receptor (TR) alleles in 47 subjects from the human pangenome reference consortium (HPRC) using the gAIRR suite**

10:30 - 10:38

Oral Abstract Presenter: Pei-Lung Chen (Taiwan)

**Role of the spleen on the maintenance of immunological memory: implications for vaccination and infection prevention**

10:38 - 10:46

Oral Abstract Presenter: Eva Piano Mortari (Italy)

**Engineered nanobodies to visualize and direct antigen-specific tolerance**

10:46 - 10:54

Oral Abstract Presenter: Novalia Pishesha (United States)

**Molecular endotyping for rare immune mediated diseases identifies therapeutically relevant diseases subgroups**

10:54 - 11:02

Oral Abstract Presenter: Julia Guthrie (Austria)

**Thymectomy leads to higher effector T cell functions in children with congenital heart disease**

11:02 - 11:10

Oral Abstract Presenter: Yusuf Eshimutu Abu (Germany)

**Mapping T cell and B cell receptors in spatial immune niches with high adaptability**

11:10 - 11:18

Oral Abstract Presenter: Zheyu Hu (China)

**Impact of donor-recipient KIR/HLA incompatibility on haplo-identical Hematopoietic Stem Cell Transplantation outcome**

11:18 - 11:26

Oral Abstract Presenter: Uma Kanga (India)

**Modulation of CCR5 shapes the Treg and M-MDSC landscape in early atherosclerosis: a novel preventive approach**

11:26 - 11:34

Oral Abstract Presenter: Alpana Sharma (India)

**Exciting Hematopoietic Stem Cells**

11:42 - 11:50

Oral Abstract Presenter: Roi Gazit (Israel)

**ImmuDiet - human immune response to dietary changes**

11:50 - 11:58

Oral Abstract Presenter: Jacqueline Leidner (Germany)

#### Abstract Session

10:30 - 12:00

Hall M

#### Infectious diseases and COVID

Chair: Eva Untersmayr (Austria)

Chair: Bernhard Kratzer (Vienna, Austria)

**High-parameter immunophenotyping using cytometry by time of flight (CyTOF) and unbiased bioinformatical analysis identifies biomarkers of Post-Covid Syndrome ME/CFS and of response to immunoabsorption therapy**

10:30 - 10:38

Oral Abstract Presenter: Lucas Til Arendholz (Germany)

**Distinct IgG and IgA autoantibody signatures associated with COVID-19 sequelae**

10:38 - 10:46

Oral Abstract Presenter: Catherine Chen (Australia)

**An emerging role for Epstein-Barr Virus in Long COVID**

10:46 - 10:54

Oral Abstract Presenter: Alexandra Tabachnikova (United States)

**Platelet-derived serotonin drives lung immunopathology in aged SARS-CoV-2 infected mice**

10:54 - 11:02

Oral Abstract Presenter: Davide Marotta (Italy)

**Mucosal Immunity and Trivalent Vaccine Strategy for Enhanced SARS-CoV-2 Protection**

11:02 - 11:10

Oral Abstract Presenter: Tai-Na Wu (Taiwan)

**Long-term impact of sepsis on pediatric immune function: immunophenotypic and metabolic shifts in myeloid cells**

11:10 - 11:18

Oral Abstract Presenter: Marcela Hortova-Kohoutkova (Czech Republic)

**Role of CCL20 in severe fever with thrombocytopenia syndrome: insights from proteomic analysis and animal models**

11:18 - 11:26

Oral Abstract Presenter: Liuluan Zhu (China)

**Baseline plasma immunological markers predict mortality in drug-susceptible tuberculosis patients: a multicenter prospective cohort study in Brazil**

11:26 - 11:34

Oral Abstract Presenter: Mariana Araujo-Pereira (Brazil)

**Longitudinal study on SARS-CoV-2 mRNA vaccine immunogenicity across individuals with different immunocompromising conditions: heterogeneity in the immune responses and impact of Omicron-adapted boosters**

11:34 - 11:42

Oral Abstract Presenter: Annalisa Ciabattini (Italy)

**Virus-like nanoparticles pseudotyped with SARS-CoV-2 RBD efficiently induce functionally relevant antibodies in a preclinical mouse model**

11:42 - 11:50

Oral Abstract Presenter: Bernhard Kratzer (Austria)

**Seasonal antibodies against beta Human Coronaviruses are associated with increased susceptibility to SARS-CoV-2 infection**

11:50 - 11:58

Oral Abstract Presenter: Hanna Oppenheimer (Israel)

#### Abstract Session

10:30 - 12:00

Hall N

#### Immunity across ages

Chair: Andrea Aran (Barcelona, Spain)

Chair: Birgit Weinberger (Austria)

**Long-term immunological changes after corrective cardiac surgery**

10:30 - 10:38

Oral Abstract Presenter: Sevgi Bilgic Eltan (Turkey)

**Nicotinamide as a rejuvenating agent: Restoration of cellular defects in the Cockayne syndrome model of premature aging**

10:38 - 10:46

Oral Abstract Presenter: Houda Yacoub-Youssef (Tunisia)

**Investigating the impact of ageing on influenza M1<sub>58-66</sub> specific CD8+ T cells**

10:46 - 10:54

Oral Abstract Presenter: Maya Pidoux (United Kingdom)

**Macrophage-intrinsic control of thymic size and regeneration through efferocytosis programming**

10:54 - 11:02

Oral Abstract Presenter: Andri Lemarquis (United States)

**Impact of insulin therapy on maternal allergic diseases and neonatal immune modulation in gestational diabetes**

11:02 - 11:10

Oral Abstract Presenter: Pardeep Kumar (India)

**Aging-Driven Gut Dysbiosis Impairs Dendritic Cell Tolerance and Immune Homeostasis**

11:10 - 11:18

Oral Abstract Presenter: Javed N Agrewala (India)

**Single-Cell Transcriptomic Profiling Reveals Dynamic Immune and Lactocyte Transitions in Human Breast Milk Across Lactation**

11:18 - 11:26

Oral Abstract Presenter: Jia Ming Low (Singapore)

**Maternal immunity protects offspring from enteric viral infection and delays the kinetics of pup-intrinsic humoral immunity occurrence**

11:26 - 11:34

Oral Abstract Presenter: Katharina Lahl (Canada)

**Dose sparing effects of novel adjuvants and alum on two different vaccines in a neonatal mouse model**

11:34 - 11:42

Oral Abstract Presenter: Audur Anna Aradóttir Pind (Iceland)

*Abstract Session*

10:30 - 12:00

Hall L1 &amp; L2

**Innate lymphoid cells responses***Chair:* Silvia Pires (New York, United States)  
*Chair:* Adelheid Cerwenka (Germany)**TL1A-induced GM-CSF from group 3 innate lymphoid cells links intestinal inflammation with emergency granulopoiesis and neutrophil reprogramming**

10:30 - 10:38

*Oral Abstract Presenter:* Silvia Pires (United States)**CD103<sup>+</sup> Natural Killer cells distinctively infiltrate the tumoral epithelium of human lung cancer**

10:38 - 10:46

*Oral Abstract Presenter:* Paolo Carrega (Italy)**Unraveling Novel Role(s) of Semaphorin 3E in Regulating Natural Killer Cell Homeostasis and Functions**

10:46 - 10:54

*Oral Abstract Presenter:* Sam Kam Pun Kung (Canada)**ILC2-derived IL-5 is the dominant maturation factor for eosinophils at steady state and for allergic eosinophilia**

10:54 - 11:02

*Oral Abstract Presenter:* Katja J Jarick (Germany)**Type 2 Innate lymphoid cells: key regulators of bone marrow homeostasis**

11:02 - 11:10

*Oral Abstract Presenter:* Paloma Hedde (France)**Harnessing chimeric antigen receptor ILC2s in cell therapies**

11:10 - 11:18

*Oral Abstract Presenter:* Siavash Mashhouri (Canada)**ILC3s modulate intestinal immune-epithelial interactions via TGF- $\beta$ 1 activation**

11:18 - 11:26

*Oral Abstract Presenter:* Diana Coman (United Kingdom)**Restoring anti-tumor function in dysfunctional natural killer cells**

11:26 - 11:34

*Oral Abstract Presenter:* Batel Sabag (Israel)**LSD1 is important for transcriptional integrity and maintenance of NK cell function**

11:34 - 11:42

*Oral Abstract Presenter:* May Wantz (Luxembourg)**Interpretable Inflammation Landscape of Circulating Immune cells**

11:42 - 11:50

*Oral Abstract Presenter:* Juan C. Nieto (Spain)*Abstract Session*

10:30 - 12:00

Hall L3

**Immunity to parasites***Chair:* Gerardo Manuel Corral-Ruiz (Mexico, Mexico)  
*Chair:* Bernard Kanoi (Kenya)**CD45 in Tuft cells: a gatekeeper of intestinal immunity**

10:30 - 10:38

*Oral Abstract Presenter:* Carmel Sochen (Israel)**Immunomodulatory effects of *Ascaris suum* on 4T1 breast tumor progression**

10:38 - 10:46

*Oral Abstract Presenter:* Lilian Lacerda Bueno (Brazil)**Peripheral and liver immune profiling identifies pathogenic T-cell subsets in carcinogenic liver fluke *Clonorchis sinensis* infection**

10:46 - 10:54

*Oral Abstract Presenter:* Zhaojun Wang (China)**Exploration of the infected RBC immunosurfaceome as a tool for anti-*Plasmodium* antibody discovery**

10:54 - 11:02

*Oral Abstract Presenter:* Paul Heinrich Gerstenhöfer (Switzerland)

<b>Pathogenic variants in mitochondrial genes DHODH and UMPS segregating with Chagas disease cardiomyopathy patients increase cardiomyocytes susceptibility to IFN-<math>\gamma</math> and TNF-<math>\alpha</math>-induced mitochondrial dysfunction</b>	11:02 - 11:10
<i>Oral Abstract Presenter:</i> João Paulo Silva Nunes (Brazil)	
<b>Shifting the Paradigm: Low Affinity CD8+ T Cells Drive Disease in <i>Plasmodium</i> infection</b>	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Douglas Cornwall (United States)	
<b>Targets of CSP-based Malaria vaccines: what we missed in 1987 and what is missing now</b>	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Franklin Yengdem Nuokpem (Ghana)	
<b>Regulation of parasite virulence by extracellular vesicles during malaria infections</b>	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Pierre-Yves Mantel (Switzerland)	
<b>Efficacy of a Chimeric Trivalent Antigen Treated with N-Acetyl Cysteine as Vaccine Candidate against <i>Trypanosoma cruzi</i> Infection</b>	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Emilio Malchiodi (Argentina)	
 <i>Upon Invitation</i>	
12:00 - 13:00	Room 0.31-32
<b>New Council Meeting (Introductory meeting) - Upon Invitation</b>	
 <i>Poster Walk</i>	
12:15 - 13:45	Poster Area
<b>Animal models and veterinary immunology</b>	
<i>Chair:</i> Alejandra Capozzo (Argentina)	
<i>Chair:</i> Giorgia Egidy (France)	
III.078 <b>Automated tissue processing for versatile sample preparation</b>	
<i>Poster Presenter:</i> Grace F.T. Poon (Canada)	
III.079 <b>Actinomycetoma by <i>Nocardia brasiliensis</i> is modulated by DMS-DA6 peptide in BALB/c mice</b>	
<i>Poster Presenter:</i> Anna Velia Vázquez Marmolejo (Mexico)	
III.080 <b>Anti-inflammatory/immunomodulatory effects of vitamin K2 in collagen-induced arthritis in rats</b>	
<i>Poster Presenter:</i> Biljana Bufan (Serbia)	
III.081 <b>Optimization of a rabbit T cell flow cytometry assay for future vaccine immunogenicity studies</b>	
<i>Poster Presenter:</i> Emily N. Tangie (South Africa)	
III.083 <b>TCR transgenic clone selection guided by immune receptor analysis and single cell RNA expression of polyclonal responders</b>	
<i>Poster Presenter:</i> Nincy Debeuf (Belgium)	
III.085 <b>Characterization of human lung immune cells in the humanized BREGSF mouse model</b>	
<i>Poster Presenter:</i> Anna V. Curioni (France)	
III.086 <b>Characterization and comparative analysis of cancer xenografts in humanized mice</b>	
<i>Poster Presenter:</i> Stephanie Stahnke (Germany)	
III.087 <b>A new humanized mouse model for investigating autoimmune disease</b>	
<i>Poster Presenter:</i> Judith Greer (Australia)	
III.088 <b>The development of immunoglobulin gene reference for Arabian</b>	

**Camels' TCR and BCR repertoire reconstruction***Poster Presenter:* Bella Minasian (United Arab Emirates)

III.089 **Novel WSI modes for IMC reveal cellular and structural composition of mouse glioblastoma**

*Poster Presenter:* Melissa Klug (Germany)

III.090 **Establishment of a toolset to explore the unknown: adaptive immunity in bats**

*Poster Presenter:* Shiwei Chen (Singapore)

III.092 **Bridging the gap: A mouse-adapted *S. aureus* strain improves murine colonization and infection models**

*Poster Presenter:* Shruthi Sachidanandan Peringathara (Germany)

III.093 **Salmonella Vaccine Enhancement: Unlocking the Potential of Poultry Gut Microbiome Substances**

*Poster Presenter:* Keesun Yu (Korea, Republic of)

III.094 **Characterization of T-cell lines derived from dogs with lymphoma**

*Poster Presenter:* Mariko Okamoto (Japan)

III.095 **Establishing porcine precision cut tonsil slices for determining host-pathogen interactions in viral infection**

*Poster Presenter:* Hannah Raistrick (United Kingdom)

III.096 **Effect of delphinidin on cytokine production in canine polymorphonuclear cells and lymphocytes**

*Poster Presenter:* Alejandra Isabel Hidalgo Gómez (Chile)

III.097 **Non-canonical NK/T cells in bats and their functional relevance for healthy longevity**

*Poster Presenter:* Wan Rong Sia (Singapore)*Poster Walk*

12:15 - 13:45

Poster Area

**Blood cells and proteins***Chair:* Susan Carpenter (United States)*Chair:* Jerome Martin (France)

III.098 **Perturbation of the monocyte compartment in Long-COVID**

*Poster Presenter:* Ying Ulbricht (Germany)

III.099 **Differentiation of human monocyte trilineage progenitor under Notch stimulation**

*Poster Presenter:* Sara Aničić (Croatia)

III.100 **Extracellular vesicles from T-cell acute lymphoblastic leukemia cell line induce the differentiation of M2-like cells**

*Poster Presenter:* Andrea Sabatini (Italy)

III.101 **DEVELOPEMENT OF A MACROPHAGE-BASED IN VITRO ASSAY FOR ALTERNATIVE PREDICTION OF FOREIGN BODY REACTION TO IMPLANTABLE MEDICAL DEVICES**

*Poster Presenter:* Juliane Spohn (Germany)

III.102 **Stabilizing atherosclerotic plaque with an endoplasmic reticulum (ER)-targeting strategy to reverse atherogenic macrophage differentiation**

*Poster Presenter:* Wan-Ting Cheng (Taiwan)

III.103 **TNF promotes Th17 vaccine responses by upregulating myeloid cell expression of the pattern recognition receptor Mincle**

*Poster Presenter:* Roland Lang (Germany)

III.104 **Mrc1 maintains immunoregulatory macrophages to suppress colorectal tumor development**

*Poster Presenter:* Heewon Lee (Korea, Republic of)

III.105 **Formation of Castration Resistance in Prostate Cancer**

*Poster Presenter:* Samuel Akinyemi (Russian Federation)

III.106 **Macrophage-mediated microRNA reprogramming in endometrial fibroblasts promotes equine endometrial fibrosis**

*Poster Presenter:* Ewelina Źebrowska (Poland)

III.107 **Modulation of polymorphonuclear neutrophil functions by linolenic, linoleic, and ferulic acid**

*Poster Presenter:* Zaynab Ouadghiri (Morocco)

III.108 **Polystyrene microplastics induce necrosis of neutrophils through TLR2 and TLR4 signaling pathways**

*Poster Presenter:* Koung-Min Park (Korea, Republic of)

III.109 **Microplastics and nanoplastics (MNPs) exhibit cytotoxicity and induce the expression of antigen-presenting cell (APC) markers in neutrophils**

*Poster Presenter:* Haerang Lee (Korea, Republic of)

III.110 **Increased CD10<sup>lo</sup> neutrophils are found in the peripheral blood of people with multiple sclerosis**

*Poster Presenter:* Stephanie Trend (Australia)

III.111 **Decoding the neutrophil transcriptome: Functional and sex-based variation during immune activation**

*Poster Presenter:* Sourav Shyam (Australia)

III.112 **RNA-binding protein tristetraprolin regulates basophil activation and skin allergic inflammation**

*Poster Presenter:* Junya Ito (Japan)

III.113 **IL-6 and DMSO induce the differentiation of early-stage MDSC from a human promyelocytic cell line**

*Poster Presenter:* Serena Ciolfi (Italy)

III.114 **IL4-Ralpha and IFN-gamma opposing signals modulate neutrophils effector functions**

*Poster Presenter:* Paola Andrea Martinez Murillo (Switzerland)

III.115 **“Uncovering two neutrophil-committed progenitors that immediately precede promyelocytes during human neutropoiesis”**

*Poster Presenter:* Francisco Miguel Angel Bianchetto Aguilera (Italy)

*Poster Walk*

12:15 - 13:45

Poster Area

**T cells 1**

*Chair:* Nicole Boucheron (Austria)

*Chair:* Judith Leitner (Austria)

III.504 **Integrated transcriptomic and immune repertoire analysis reveals innate and adaptive immune responses to vaccination**

*Poster Presenter:* Alex Chenchik (United States)

III.505 **Restricting SLC7A5-mediated Leucine uptake in T cells prevents acute GVHD and maintains GVT response**

*Poster Presenter:* Nieves Fernández-Gallego (Spain)

III.506 **Molecular exploration of co-stimulatory receptors in CD8<sup>+</sup> and CAR-T cell cytotoxic function**

*Poster Presenter:* Guilhèn Prunier (France)

III.507 **FCRL3 is an immunoregulatory receptor that restrains the activation of human memory T lymphocytes**  
*Poster Presenter:* Elena Foli (Switzerland)

III.508 **B cell CD19 can be relocated to T cells and monocytes via membrane transfer**  
*Poster Presenter:* Jasmin Ochs (Germany)

III.509 **CD8<sup>+</sup> T cells require signal 3 from non-antigen-presenting cells for optimal clonal expansion**  
*Poster Presenter:* Jun Abe (Switzerland)

III.510 **CD99-Mediated Cytoskeletal Crosstalk Promotes Immune Synapse Formation and CAR-T Cell Function**  
*Poster Presenter:* Eun Young Choi (Korea, Republic of)

III.511 **IL-21 signaling in a CD4+ T cell-dependent manner exposes more proliferative T cell subsets**  
*Poster Presenter:* Rene H. M. Raeven (Netherlands)

III.512 **Absence of ABIN1 alone has no effect on T cell homeostasis but enhances the impact of A20 deficiency**  
*Poster Presenter:* Jill Steels (Belgium)

III.513 **Connecting cell-cycle dynamics and transcriptional activity in T-cell development**  
*Poster Presenter:* Hanna Marie Steede (Germany)

III.514 **The non-canonical actin-binding protein Coro2a regulates early T cell development**  
*Poster Presenter:* Thuy Trang Lam (Australia)

III.515 **MicroRNA miR-181 controls development of conventional  $\alpha\beta$  T cells**  
*Poster Presenter:* Sean Lando Levin Seegert (Germany)

III.516 **GMDS controls early T-cell development in mice**  
*Poster Presenter:* Mehmet Yabas (Turkey)

III.517 **The impact of inflammatory pathways on fetal thymic immune cell development**  
*Poster Presenter:* Elise Helena Armulik (Estonia)

III.519 **High-resolution mapping of cell cycle dynamics during steady-state T cell development and regeneration in vivo**  
*Poster Presenter:* Heike Kunze-Schumacher (Germany)

III.520 **Role of the BTB zinc finger transcription factor MAZR for the generation of memory T cells**  
*Poster Presenter:* Jing Zhang (China)

III.521 **Navigating lineage options: insights into human T cell fate decisions through lineage tracing**  
*Poster Presenter:* Vinothkumar Rajan (Canada)

**Poster Walk**

12:15 - 13:45

Poster Area

**Viruses***Chair:* Katarzyna Niespodziana (Vienna, Austria)  
*Chair:* Johannes Stöckl (Austria)

III.561 **The role of complement opsonization in dendritic cell activation upon SARS-CoV-2 infection**  
*Poster Presenter:* Michael Jäger (Austria)

III.562 **Immune aspects of thermorestriction mechanism of**

**thermoregulation upon MCMV infection***Poster Presenter:* Maja Lenartic (Croatia)

III.563 **Longitudinal study of CD4 T-cell response dynamics after natural and vaccine-induced immune boosting**

*Poster Presenter:* Maria Kuznetsova (Belgium)

III.564 **Acid ceramidase deficiency increases CD4<sup>+</sup> and CD8<sup>+</sup> T cell function, but inhibits B cell survival**

*Poster Presenter:* Rehan Haider Zaidi (Germany)

III.565 **Role of human skin epidermal keratinocytes and Langerhans cells in the initial immune response to rabies virus**

*Poster Presenter:* Keshia Kroh (Netherlands)

III.566 **Vaccine-specific humoral, B-, and T-cell responses to a prefusion F Respiratory Syncytial Virus (RSV) vaccine in kidney transplant recipients and dialysis patients**

*Poster Presenter:* Hector Rincon-Arevalo (Germany)

III.567 **Profiling humoral immune responses to common respiratory viruses by multiplex immunoassay**

*Poster Presenter:* Alex Dulovic (Germany)

III.568 **Multidimensional characterization of SARS-CoV-2-YLQ-specific TCRs and their spectrum of functional avidity**

*Poster Presenter:* Stefan Stoiber (Austria)

III.569 **Expression of OAS 1, 2 and 3 after infection with DENV-2 virus or with vaccine virus in HEK 293T and Huh-7 cells**

*Poster Presenter:* Ana Cristina Martins de Almeida Nogueira (Brazil)

III.570 **Non-canonical players engage Antibody-dependent enhancement of SARS-CoV-2 Infection**

*Poster Presenter:* Diego Abarzúa-Montanares (Chile)

III.571 **Far-beyond COVID-19 emergency and spike neutralization. Protective and harmful effects of antibodies imprinted by past exposures**

*Poster Presenter:* Francisco Fuentes-Villalobos (Chile)

III.573 **NEK7 coordinates mitosis to control STING activity and antiviral innate responses**

*Poster Presenter:* Hui Song (China)

III.574 **The impact of viral infection on the transcriptional profile and regulatory networks of circulating Tfh cells**

*Poster Presenter:* Diogo Fonseca (Portugal)

III.576 **Complement-Mediated Lysis Differs Between Parainfluenza Virus Acute Versus Persistently Infected Respiratory Tract Cells**

*Poster Presenter:* Nasser Yousef (United States)

III.577 **Beyond apoptosis: deciphering the role of Caspase-activated DNase in lung immunity at high plexity and resolution**

*Poster Presenter:* Abdul Moeed (Germany)

III.578 **Lymphocytes T CD5+, T CD4+, T CD8+, T CD25+, B CD19+ and serum IgG in peripheral blood in rabbits experimentally infected with *Lagovirus europaeus* GI.1-RHDV**

*Poster Presenter:* Łukasz Baraniecki (Poland)

III.579 **BCG-trained macrophages couple LDLR upregulation to type I IFN responses and anti-viral immunity**

*Poster Presenter:* Ying Wang (China)

III.581 **Transcriptomic analysis in HPV-positive cervical cancer cell lines: impact of type I kappa interferon reexpression**

*Poster Presenter:* Brigitte Ofelia Peña López (Colombia)

III.582 **SARS-CoV-2 vaccination elicits cross-reactive antibodies against related sarbecoviruses**

*Poster Presenter:* Rebecca B. Morse (United Kingdom)

III.583 **Circulating CD8 T cells are sentinels for intrahepatic T cell responses during HBV infection**

*Poster Presenter:* Hannah Wintersteller (Germany)

*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 5**

*Chair:* Sabrina Dhooge (Cordoba, Argentina)

*Chair:* Dietmar Herndler-Brandstetter (Vienna, Austria)

III.200 **Impact of hypoxia on the production of CAR T cells**

*Poster Presenter:* Isabelle Magalhaes (Sweden)

III.201 **Generation of human autoantigen-specific regulatory T cells via T cell receptor engineering**

*Poster Presenter:* Nora Kohlstedt (Germany)

III.202 **Targeted regulatory T cells to treat autoimmune small vessel vasculitis**

*Poster Presenter:* Elean See Vun Tay (Australia)

III.203 **Generation of tolerogenic antigen-presenting cells from murine dendritic cells using cell culture dish for oxidative stimuli of cell membrane**

*Poster Presenter:* Thi Hong Van Doan (Japan)

III.204 **Chasing antigen-specific T cells with high avidity (CATCH)**

*Poster Presenter:* Lucie Loyal (Germany)

III.206 **Optimized MELOE-1 TCR expression in primary T cells leads to enhanced clearance of malignant melanoma**

*Poster Presenter:* Thibault Leray (Norway)

III.208 **The autophagy enhancer spermidine promotes expansion of human regulatory T cells under mTOR-inhibited conditions**

*Poster Presenter:* Emina Voss (United Kingdom)

III.209 **The impact of mesenchymal stem/Stromal cell microvesicles from adipose tissue on apoptosis induction in primary ovarian cancer cells**

*Poster Presenter:* Aleksandra Klimczak (Poland)

III.212 **Development of TREM2-targeting CAR T cells as a novel approach to remodel the tumor microenvironment**

*Poster Presenter:* Luis Castillo Cantero (Switzerland)

III.213 **Avant-garde in cancer immunotherapy: CAR-T treatment of renal cell carcinoma (RCC)**

*Poster Presenter:* Tkhu Chang Le (Russian Federation)

III.214 **MAIT cells retain antitumor cytotoxicity in the presence of chemotherapy and target DNA-damaged mucosal cancer cells**

*Poster Presenter:* Huizhong Xu (China)

III.216 **Boosting CAR-T cell potency through TFEB-mediated lysosomal regulation**

*Poster Presenter:* Yiwei Chu (China)

III.217 **Liver-specific paraoxonase-1 alleviates regulatory T cell-driven immunosuppression via metabolic reprogramming in hepatocellular carcinoma**

Poster Presenter: Yiwei Chu (China)

*Poster Walk*

12:15 - 13:45

Poster Area

**Immunity to fungi and parasites**

Chair: Irma Schabussova (Vienna, Austria)

Chair: Georg Stary (Austria)

III.276 **Candida albicans reduces the severity of invasive *Staphylococcus aureus*-induced pneumonia in mice**

Poster Presenter: Tobias Köhler (Germany)

III.277 **Glomus mosseae controls *Vigna angularis*, *Ipomoea batatas* and *Allium tuberosum* Immunity to dikaryotic arbuscular mycorrhizal fungi**

Poster Presenter: Yu Cheng Lin (Taiwan)

III.278 **Fungal clustering in lung is a crucial aspect of tissue invasion that can evade host defence and trigger disease**

Poster Presenter: Phuong Tuyen Nguyen (United Kingdom)

III.280 **Transfer RNA (tRNA) modification regulates the intestinal innate immunity**

Poster Presenter: Jun Sun (United States)

III.282 **Antibiotic-mediated microbiota disruption affects susceptibility and immune responses to systemic candidiasis**

Poster Presenter: Ketema Abdissa Merga (Germany)

III.286 **STAT6 dependent alterations in tryptophan metabolism regulates immunity to helminth infection**

Poster Presenter: Jonathan Pollock (Germany)

III.287 **Altered gut microbiota in C57BL/6N mice ameliorates experimental cerebral malaria**

Poster Presenter: Tomoyo Taniguchi (Japan)

III.288 **Characterisation of activin subunit Gene expression and its role in host susceptible or resistant immune responses in a murine model of cutaneous leishmaniasis**

Poster Presenter: Gina de Klerk (South Africa)

III.290 **Myeloid derived suppressor cells facilitate asymptomatic carriage of *Plasmodium* parasites in malaria**

Poster Presenter: Tracey Lamb (United States)

III.291 **Initial phase of cutaneous leishmaniasis due to *Leishmania braziliensis*: high parasite burden, intense inflammation and decreased regulatory response**

Poster Presenter: Lucas Carvalho (Brazil)

III.292 **Modulation of HIF1A antisense long noncoding RNA expression impacts *Leishmania infantum* infection in THP-1 macrophages**

Poster Presenter: Jonathan Zanatta (Brazil)

III.295 **IL-1 $\beta$  is expressed in a sexually dimorphic manner in different parts of the brain as a function of prolactin in a cerebral malaria model**

Poster Presenter: José Miguel Ménera Jiménez (Mexico)

III.296 **Investigating an immunomodulatory role for interleukin 4-induced gene 1 (IL-4i1) during cutaneous leishmaniasis**

Poster Presenter: Ramona Hurdoyal (South Africa)

III.297 **Contribution of testosterone to the expression of *Bmal1* and *Clock* in *Plasmodium berghei* malaria**

Poster Presenter: Martha Legorreta-Herrera (Mexico)

*Poster Walk*

12:15 - 13:45

Poster Area

**Inflammasome**

Chair: Osamu Takeuchi (Kyoto, Japan)

III.358 **The spatiotemporal interplay between RIG-I-like receptors and endosomes**

Poster Presenter: Pin Ling (Taiwan)

III.359 **TcpC suppresses early innate immunity by mediating Myddosome formation**

Poster Presenter: Ying Chen (Germany)

III.360 **Analysis of the anti-inflammatory effects of three compounds derived from Seri (*Oenanthe javanica*) on macrophages**

Poster Presenter: Tatsuo Katagiri (Japan)

III.361 **A novel zinc finger-containing protein negatively regulates TLR3- and TLR4-triggered inflammatory responses by targeting TRIF for proteasomal degradation**

Poster Presenter: Li-Chung Hsu (Taiwan)

III.362 **Rhodiosin alleviates inflammatory responses in activated macrophages by suppressing NLRP3 inflammasome activation and STAT3 phosphorylation**

Poster Presenter: Ming-Ling Kuo (Taiwan)

III.364 **Maltol modulates inflammasome activation in skin infected by *Staphylococcus aureus***

Poster Presenter: Huijeong Ahn (Korea, Republic of)

III.365 **Differential inflammasome activation in monocyte subsets: NLRP3 expression and functional implications in sepsis**

Poster Presenter: Syed Muhammad Tahir Nasser (United Kingdom)

III.366 **Postprandial dynamic of immune cell responses and serum concentration of PRR ligands in humans**

Poster Presenter: Lucy Biber (Germany)

III.367 **Comprehensive identification of the genes involved in the expression of Siglec-15 ligands on an osteoclast precursor model**

Poster Presenter: Takashi Angata (Taiwan)

III.368 **Activation of the NLRP3 inflammasome in tissues of rabbits infected with *Lagovirus europaeus* GI.1 (RHDV) and GI.2 (RHDV2)**

Poster Presenter: Beata Hukowska-Szemiatowicz (Poland)

III.369 **The benzylideneacetophenone-derived compound, JC2-11, reduces inflammasome activation**

Poster Presenter: Gilyoung Lee (Korea, Republic of)

III.370 **GSDMB-dependent pyroptosis is effectively regulated by interferons (IFNs) and operates independently of inflammasome inducers**

Poster Presenter: Maryeva Bessemoulin (Germany)

III.371 **DAMP-secretion blockers inactivate neutrophil and alleviate acute lung injury**

Poster Presenter: Jui-Hsia Weng (Taiwan)

III.372 **Gasdermin D Impairs Macrophage Control of *T. gondii* by Delaying**

**NLRP3 Activation**

*Poster Presenter:* Karina Ramalho Bortoluci Ramalho Bortoluci (Brazil)

III.373 **A Novel Role for the Nlrp10 Inflammasome in Protecting Against Mucosal Damage**

*Poster Presenter:* Hagit Shapiro (Israel)

III.375 **Cell-specific targeting of TRAF1 in sepsis**

*Poster Presenter:* Ibrahim Ridany (Canada)

III.376 **Syntaxin 17 modulates inflammatory responses in Interleukin-1 and Toll-like receptor signaling**

*Poster Presenter:* Ann-Kathrin Dobbelstein (Germany)

III.377 **Crosstalk Between NRF2 And Nitric Oxide In Regulation Of NLRP3 Inflammasome**

*Poster Presenter:* Danielle Paige Anthony (Germany)

III.378 **Acute Exposure To High Fat Diet Impairs ILC3 Functions And Gut Homeostasis**

*Poster Presenter:* Le Xiong (Australia)

III.379 **Tec kinase regulates pulmonary ILC responses to fungal infection**

12:15 - 12:19

*Poster Presenter:* Irina Tsymala (Austria)

**Poster Walk**

12:15 - 13:45

Poster Area

**Immunodiagnostics**

*Chair:* Klaus Schmetterer (Austria)

*Chair:* Janet Valdez Tejeira (Canada)

III.299 **Theoretical and practical considerations for validating antigen-specific B cell ImmunoSpot assays**

*Poster Presenter:* Greg Kirchenbaum (United States)

III.300 **Production and characterization of anti-MPT64 monoclonal antibodies for diagnostic applications in tuberculosis detection**

*Poster Presenter:* Natcha Panachamnong (Thailand)

III.301 **Validation of high throughput microneutralization assay for anti-AAV2 neutralizing antibodies (NAbs) in clinical trials in support of gene therapy**

*Poster Presenter:* Magdalena Tary-Lehmann (United States)

III.302 **Comparison of two multiplex assays for the detection of specific immunoglobulin E antibodies**

*Poster Presenter:* Kaja Zevnik (Slovenia)

III.303 **Elevated plasma interferon-gamma among African residents: a hurdle for T cell ELISpot assay accuracy**

*Poster Presenter:* Lilian Nkonda (Tanzania)

III.304 **Monitoring of individuals with IgA deficiency by validated in-house ELISAs detecting IgA and anti-IgA**

*Poster Presenter:* Valerija Kovač (Slovenia)

III.305 **Boosted flow cytometry for immune monitoring in infectious diseases: application in discriminating active and latent tuberculosis effector T-cell responses**

*Poster Presenter:* Sonia Villanueva-Hernández (Spain)

III.306 **Technical performance of a miniaturized chip platform for measuring specific antibody responses to antigens and peptides from respiratory viruses**

*Poster Presenter:* Thomas Schleiderer (Austria)

III.308 **Production of Chimeric Mouse-Human Antibody Against Allergen Api m 3 Utilising Genetic Material from Single Mouse B cell**

*Poster Presenter:* Dainius Gudas (Lithuania)

III.309 **Evaluation of the diagnostic performance of a newer screening assay for autoimmune connective tissue disorders**

*Poster Presenter:* Yashwant Kumar (India)

III.310 **Molecular diagnosis of allergy to furry pets**

*Poster Presenter:* Siratcha Phanthong (Thailand)

III.311 **Validation of a gold nanoparticles (AuNPs)-based paper biosensor to quantify neutrophil levels in whole blood**

*Poster Presenter:* Diego Jose Gonzalo Jimenez (Spain)

III.312 **Molecular mutation detection of different types of cancer diagnosed patients**

*Poster Presenter:* Ashesh Chowdhury (Bangladesh)

III.314 **Insights into the T and B cell exhaustion as a phenomenon in acute and chronic pathologies of different etiology**

*Poster Presenter:* Paulina Niedzwiedzka-Rystwej (Poland)

III.317 **An RNA interference-based approach to suppress immune escape and invasion of hepatocellular carcinoma**

*Poster Presenter:* Petr Chernov (Russian Federation)

*Poster Walk*

12:15 - 13:45

Poster Area

**Genetics and bioinformatics**

*Chair:* Deborah Burnett (Sydney, Australia)

*Chair:* Dil Afroze (Srinagar, India)

III.241 **Association of SNP rs12711521 with vaso-occlusive crises in patients with sickle cell anemia and its structural impact on mannose-binding lectin-associated serine protease-2 (MASP-2)**

*Poster Presenter:* Patricia Moura (Brazil)

III.243 **Generation of monoallelic bovine cell lines to expand BoLA-DR immunopeptidome coverage and improve MHC ligand prediction tool**

*Poster Presenter:* Alexander Moraes (Brazil)

III.244 **In adult MHC class 1 deficiencies, not only necrotizing granulomas but also bacterial and mycobacterial infections may be the first presentation**

*Poster Presenter:* Eda Aslan (Turkey)

III.245 **Peptide-specific alloreactive B cells are found at high frequency during heart transplant rejection**

*Poster Presenter:* Alexandra Francesca Sharland (Australia)

III.246 **Characterization of a novel T cell staining reagent**

*Poster Presenter:* Philipp Trummer (Germany)

III.247 **Application of IMBAS-MS to Explore Soluble Immunopeptidome Dynamics and Reproducibility in Cancer**

*Poster Presenter:* Maria Wahle (Germany)

III.248 **Unraveling DNA methylation dynamics in annelids regenerative processes**

*Poster Presenter:* Chayeen Brotzki da Costa (Hungary)

III.250 **Type-2 innate lymphocytes reprogram resident alveolar macrophages into drivers of inflammation by switching from PPAR-**

**γ to IRF4 regulons**

Poster Presenter: Stijn Verwaerde (Belgium)

III.251 **Role of Bcl6 in epigenetic regulation of T cell senescence and tumorigenesis**

Poster Presenter: Hiroko Nakatsukasa (Japan)

III.252 **Targeting the progression of lupus-like disease in humanized mouse model by specific dietary components**

Poster Presenter: Lidiya Kechidzhieva (Bulgaria)

III.256 **Topoisomerase 1 regulates inducible gene expression program through stimulus-gained super-enhancers in macrophages**

Poster Presenter: Harshdeep Kaur (India)

III.257 **Role of the transcription factor BHLHE40 in modulating inflammatory responses in human T lymphocytes**

Poster Presenter: Mehrpouya Mostanfar (Switzerland)

**Poster Walk**

12:15 - 13:45

Poster Area

**Microbiome and mucosal immunology**

Chair: Ranit Kedmi (Israel)

Chair: Gabrielle Belz (Brisbane, Australia)

III.380 **Proteomes of gut bacterial extracellular vesicles**

Poster Presenter: Mikael Niku (Finland)

III.381 **Antibiotics in pregnancy: effects of sow antimicrobials on piglet immune system and growth**

Poster Presenter: Mikael Niku (Finland)

III.382 **Association of T cell receptor (TCR) Vβ repertoire of Treg lymphocytes with bacteria of human colostrum**

Poster Presenter: Mextli Yoali Bermejo Haro (Mexico)

III.383 **Probiotic *L. rhamnosus* improved blood glucose and reduced pro-inflammatory gene expression through gut microbiome modulation and epigenetic alterations in diabetic rats**

Poster Presenter: Sakawdaurn Yasom (Thailand)

III.384 **Impact of end-stage lung diseases on the immune cell composition in lung parenchyma and mediastinal lymph nodes**

Poster Presenter: Wiebke Rackwitz (Germany)

III.385 **Extracellular vesicles of probiotic *Escherichia coli* O83:K24:H31 decorated with allergens using the SpyCatcher-SpyTag system for testing in allergy**

Poster Presenter: Viktor Černý (Czech Republic)

III.386 ***Helicobacter pylori* infection confers increased colorectal cancer risk depending on CagA by disrupting intestinal homeostasis**

Poster Presenter: Veronika Engelsberger (Germany)

III.387 **Association of gut homing effector memory CD8<sup>+</sup> T cell frequency with microbiome composition in PLHIV with latent TB infection**

Poster Presenter: Pratik Devadiga (India)

III.388 **Study of the administration of *Kluyveromyces marxianus* to ameliorate intestinal inflammation**

Poster Presenter: Malena María Ferreyra Compagnucci (Argentina)

III.389 **Axl Receptor-Mediated Efferocytosis Modulates Bone Loss and Inflammation in Experimental Periodontitis**

Poster Presenter: André Luiz Amorim Costa (Brazil)

III.393 **Mapping the current knowledge on leukocytes in human breastmilk: a scoping review**

*Poster Presenter:* Marion Brunck (Mexico)

III.394 **The dynamics of tonsillar lymphocytes subsets in space and time**

*Poster Presenter:* Lucía Belén Donnoli (Argentina)

III.395 **Axl and MerTk receptors regulate the intestinal microbiome of animals exposed to cigarette smoke**

*Poster Presenter:* Juliana Ribeiro (Brazil)

III.396 **MR1-reactive T cells in ulcerative colitis exhibit TCR-independent activation and a pro-inflammatory phenotype**

*Poster Presenter:* Vanshika Rastogi (Switzerland)

III.397 **Single-cell transcriptomic atlas of mouse NALT reveals TGF- $\beta$ -driven tolerogenic networks in mucosal immunity**

*Poster Presenter:* Sae-Hae Kim (Korea, Republic of)

III.398 **Pregnancy dampens maternal alveolar macrophages' responses and protects from severe lung pathology upon SARS-CoV-2 infection**

*Poster Presenter:* Alina Fokina (Austria)

*Poster Walk*

12:15 - 13:45

Poster Area

**Antigens and antibodies**

*Chair:* Caterina Vizzardelli (Vienna, Austria)

*Chair:* Aline Brouwer (Groningen, Netherlands)

III.019 **Development of a bivalent anti-infection vaccine for the prevention of *Plasmodium falciparum* infection**

*Poster Presenter:* Shaikh Zikra Arkam (India)

III.020 **Assessment of preclinical efficacy of a chimeric pre-erythrocytic stage malaria vaccine candidate**

*Poster Presenter:* Summaiya Khan (India)

III.021 **Exercise stimulates endoplasmic reticulum-enriched plasma cells for antibody-dependent immune defense**

*Poster Presenter:* Yiwei Chu (China)

III.022 **Antibodies against antigens of pathogens causing selected vaccine-preventable diseases: comparison of pregnant Austrian and Gabonese women**

*Poster Presenter:* Lena Ederer (Austria)

III.026 **Comprehensive analysis of HA-specific B cells in adults vaccinated with trivalent or quadrivalent Influenza vaccines**

*Poster Presenter:* Victoria A S Lunardelli (Brazil)

III.027 **Biosynthesis and evaluation of an immunogenic group B streptococcus protein as a candidate for a single-step, enzyme-facilitated universal glycoconjugate vaccine development**

*Poster Presenter:* Nelisa Makeleni (South Africa)

III.028 **Thermal stabilisation of live viral vaccine in the absence of lyophilisation and biocompatibility of zeolitic imidazolate frameworks**

*Poster Presenter:* Aimee Talbot (Australia)

III.029 **Boosting immunity against *Plasmodium vivax*: targeting PvMSP1<sub>19</sub> protein to dendritic cells via chimeric antibodies**

*Poster Presenter:* Silvia Beatriz Boscardin (Brazil)

III.031 **Evaluation of immune responses against indigenously developed**

**tetanus and diphtheria toxoid vaccines**

*Poster Presenter:* Nihan Oruklu (Turkey)

III.032 **Non-cognate ligands of Hepatitis C neutralizing antibodies as an antigen inducing virus-neutralizing antibodies in mice.**

*Poster Presenter:* Stephen Walimbwa (Czech Republic)

III.033 **Immune stimulating properties of LNP formulations containing a PEG alternative**

*Poster Presenter:* Raphaela Patricia Semper (Germany)

III.035 **Rapid *de novo* sequencing of a commercial monoclonal antibody produced by hybridoma**

*Poster Presenter:* Isabel Sakanoue Leite (Brazil)

III.036 **Distinct SARS-CoV-2 strain cross-reactivity of T-cell and IgG antibody responses after Omicron-adapted COVID-19 booster vaccinations with aging**

*Poster Presenter:* Sara Suárez-Hernández (Netherlands)

**Poster Walk**

12:15 - 13:45

Poster Area

**Autoimmunity 2**

*Chair:* Rudolf Oehler (Vienna, Austria)

III.059 **Inducible intestinal IgA generation by adaptive and innate B cell immunity during microbiota-driven colitis**

*Poster Presenter:* Niko Föger (Germany)

III.060 **Microbial metabolites produced by *Clostridium sporogenes* protect mice from colitis by modulating the mucosal immune system**

*Poster Presenter:* Kira Mangold (Germany)

III.061 **CXCL4 enables responses to self/microbial nucleic acids in Ulcerative colitis**

*Poster Presenter:* Loredana Frasca (Italy)

III.062 **The cholesterol content in colonic mucosa regulates de IL-18 secretion in Ulcerative Colitis (UC) patients**

*Poster Presenter:* Héctor Molina (Chile)

III.063 **Immunological parameters are affected in homeostasis and chronic colitis in knockout mice for the TRPM5 ion channel**

*Poster Presenter:* João Vinícius Honório da Silva (Brazil)

III.064 **Human regulatory B cells suppress autoimmune disease primarily via interleukin-37**

*Poster Presenter:* Yiwei Chu (China)

III.065 **Mapping the intestinal B cells over time in patients with Crohn's disease**

*Poster Presenter:* Stefania Vintila (Austria)

III.066 **Novel mutation of IKK $\alpha$  results in intestinal inflammation and gastroenteritis with CD8 $^+$  T-cell lymphocytosis**

*Poster Presenter:* Cheryl van de Wetering (Austria)

III.067 **Unveiling a role for miR-21 and FAP as biomarkers of gut fibrosis in Inflammatory Bowel Disease and colitis associated cancer**

*Poster Presenter:* Renata Curciarello (Argentina)

III.068 **Targeting the IL-37/SIGIRR Axis: A Potential Immunoregulatory Pathway in Ulcerative Colitis**

*Poster Presenter:* Karen Toledo-Stuardo (Chile)

III.069 **Tetrahydrobiopterin metabolism drives abdominal pain in ulcerative colitis**  
*Poster Presenter:* Miguel de Abreu de Oliveira (Brazil)

III.071 **AhR ligands mediated role of PPAR $\gamma$  on anti-inflammatory effects in a Caco-2/THP-1 in vitro “in-flamed gut” model**  
*Poster Presenter:* Subha Shree Pethaperumal (Germany)

III.072 **Linking epitope specificity to the 400 M antibody/B-cell and T-cell receptor sequences in the public type 1 diabetes immune receptor repository**  
*Poster Presenter:* Felix Breden (United States)

III.074 **Influence of IL-6 SNP rs1800795 on macrophage polarisation, colitis, and response to emerging therapies**  
*Poster Presenter:* Jildou van der Werf (New Zealand)

III.075 **Phosphorylation of CBP sustains versican and the intestinal stem cell niche to prevent IBD development**  
*Poster Presenter:* Yi-Ting Lin (Taiwan)

III.076 **Human effector CD8 T cells with auto-aggressive function in Immune-Mediated-Inflammatory-Diseases**  
*Poster Presenter:* Jonas Fackler (Germany)

III.077 **Sex differences in zonulin protein and presence of circulating LPS in inflammatory bowel disease: factors indicative of intestinal permeability in Crohn's disease (CD)**  
*Poster Presenter:* Pedro V. da Silva-Neto (Brazil)

*Poster Walk*  
12:15 - 13:45

Poster Area

#### Cancer 1

*Chair:* Brian Brown (United States)  
*Chair:* Rodrigo Nalio Ramos (São Paulo, Brazil)

III.120 **Tumor-infiltrating lymphocyte-derived T cell receptors recognizing breast cancer in an MR1-dependent manner**  
*Poster Presenter:* Hiroyuki Kishi (Japan)

III.126 **Collagen affinity improves the efficacy and reduces the toxicity of anti-CTLA-4 antibody**  
*Poster Presenter:* Chuyi Wang (United Kingdom)

III.129 **Novel anti-cancer and immunomodulatory properties of discovered bioactive compounds in Thai herbs**  
*Poster Presenter:* Kanchana Usuwanthim (Thailand)

III.132 **Gut microbiota is indispensable for antitumor immune responses induced by orally-administered Manuka honey**  
*Poster Presenter:* Ienas Idriss (United Arab Emirates)

III.133 **Immune monitoring after anti-CD19 CAR T-cell therapy in DLBCL patients**  
*Poster Presenter:* Leana De Vuyst (Belgium)

*Poster Walk*  
12:15 - 13:45

Poster Area

#### Cancer 4

*Chair:* Aranza Daniela Mejía Muñoz (Edo. De México, Mexico)  
*Chair:* Myriam Nabhan (Ireland)

III.178 **Identification of novel ICOSL isoforms recurrently expressed in Sezary syndrome**

*Poster Presenter:* Loubna Oumeslakht (Morocco)

III.180 **Effect of B and T superantigens on human B lymphoid neoplasms. Rational for combination with current treatments**

*Poster Presenter:* Maricef Vergara Rubio (Argentina)

III.184 **Anti-soluble CD155 antibody augments the efficacy of PD-1 blockade**

*Poster Presenter:* Shota Kinoshita (Japan)

III.185 **WNT3a-expressing cancer stem cells impair TRM function, contributing to immunotherapy resistance in melanoma**

*Poster Presenter:* Julian A. Gajón (Mexico)

III.186 **Tackling immune escape: identifying novel targets and pathways involved in the regulation of CD155**

*Poster Presenter:* Fenna Floortje Feenstra (Australia)

III.187 **MicroRNA-1250-5p modulates IGFBP2 to restore NK cell functionality in the tumor microenvironment**

*Poster Presenter:* Kyungmi Lee (Korea, Republic of)

III.188 **HER2-specific CAR T cells exhibit potent antitumor efficacy against breast carcinoma xenografts resistant to trastuzumab-emtansine and trastuzumab-deruxtecan**

*Poster Presenter:* Máté Kisgyörgy (Hungary)

III.189 **Co-delivery of doxorubicin and mRNA using polymeric nanoparticles for combination cancer therapy**

*Poster Presenter:* Elina Tanskanen (United Kingdom)

III.191 **Intratumoral calcitonin gene-related peptide drives neutrophil senescence to dampen immunotherapy efficacy**

*Poster Presenter:* Wenging Lu (China)

III.193 **Lower global DNA methylation in high microsatellite instability (MSI-H) tumor tissue from Mexican patients with Prostate Cancer**

*Poster Presenter:* Adrian Ramirez de Arellano (Mexico)

III.195 **CXCL9-CXCR3 axis as a central role in immune networks favoring response to immunotherapy in advanced melanoma patients**

*Poster Presenter:* Kenneth J. Gollob (Brazil)

III.197 **Enhancing T cell immunity in tumor-draining lymph nodes**

*Poster Presenter:* Alex Deltedesco (Austria)

III.198 **Polyfunctional T cells and unique cytokine clusters imprint the anti rAAV2/rAAV9 vector immune response**

*Poster Presenter:* Stephan Jonas Holtkamp (Germany)

III.199 **Clinical manufacturing of tumor-infiltrating lymphocytes (TIL): Combining TIL outgrowth and rapid expansion on a closed and automated platform**

*Poster Presenter:* Lorenz Jahn (Germany)

#### Poster Walk

12:15 - 13:45

Poster Area

#### Clinical immunology

*Chair:* Winfried Pickl (Austria)

*Chair:* Elisabeth Förster-Waldl (Austria)

III.218 **Immunodeficiency in a patient with Smith-Magenis syndrome; case report**

*Poster Presenter:* Öner Özdemir (Turkey)

III.219 **Two cases of common variable immunodeficiency unable to achieve optimal trough level with subcutaneous immunoglobulin therapy**  
*Poster Presenter:* Öner Özdemir (Turkey)

III.220 **Natural IgM recognizing oxidation-specific epitopes in abdominal aortic aneurysm**  
*Poster Presenter:* Nahla Ibrahim (Austria)

III.221 **Immunophenotyping of NK cells and T cells in adipose tissue: influence of BMI, age, and sex**  
*Poster Presenter:* Amirhooman Asadi (Turkey)

III.222 **2-hydroxy-propyl- $\beta$ -cyclodextrins alter visceral fat in the murine ApoE<sup>-/-</sup> model of atherosclerosis**  
*Poster Presenter:* Christabel Mennicken (Germany)

III.223 **CCR1-dependent recruitment and fibrogenic role of CD16<sup>-</sup> monocytes in human liver fibrosis**  
*Poster Presenter:* Hayoung Jang (Korea, Republic of)

III.224 **Clinical and Demographic Characteristics in Patients with Inborn Errors of Immunity: Single Center Experience**  
*Poster Presenter:* GÜLİSTAN ALPAĞAT (Turkey)

III.226 **The Impact of IVIg on Lymphocyte Proliferation Assays Using Whole Blood and Potential Solutions**  
*Poster Presenter:* Renfen Chen (Australia)

III.227 **Relation of Interleukin-38 (IL-38), Interleukin-39 (IL-39), Interleukin-40 (IL-40) and Serum IgA in Celiac Disease** 12:15 - 12:19  
*Poster Presenter:* Aslı HACIOĞLU (Turkey)

III.228 **Netherton syndrome and beyond: skin barrier defects, clinical, immunological and genetic features of a patient cohort from Turkey**  
*Poster Presenter:* Saliha Esenboğa (Turkey)

III.230 **Immunogenicity of respiratory syncytial virus vaccination in solid organ transplant recipients**  
*Poster Presenter:* Saskia Bronder (Germany)

III.231 **Soluble immune mediator ratios may provide additional insight into the immunological alterations in graft and plasma of lung transplanted patients**  
*Poster Presenter:* Magnus Malte Wiemann (Germany)

III.232 **Donor T and NK cells with a special TRM phenotype migrate into the periphery of lung transplant recipients - a potential feature for tolerance development**  
*Poster Presenter:* Jenny F. Kühne (Germany)

III.233 **Soluble immune mediator profiling identifies immunological conditioning of ex vivo perfused lungs associated with severity of primary graft dysfunction (PGD)**  
*Poster Presenter:* Evgeny Chichelnitskiy (Germany)

III.234 **CXCR4 blockade reduces the severity of murine heart allograft rejection by plasmacytoid dendritic cell-mediated immune regulation**  
*Poster Presenter:* Christian Lehmann (Germany)

III.235 **Soluble immune checkpoint molecules as predictors of post-transplant kidney function**  
*Poster Presenter:* Cemil Pehlivanoğlu (Turkey)

III.236 **Immune checkpoint *in vitro* modulation by the immunosuppressive**

**drugs used to prevent transplant rejection***Poster Presenter:* Francesca La Rosa (Italy)**Poster Walk**

12:15 - 13:45

Poster Area

**T cells 2***Chair:* Ichiro Taniuchi (Yokohama, Japan)*Chair:* Rafael Freitas (Vienna, Austria)

III.523 **A high-resolution map of functional miR-181 response elements in the thymus reveals the role of coding sequence targeting and an alternative seed match**

*Poster Presenter:* Andreas Krueger (Germany)

III.526 **HOXA9-PBX1 axis differentially regulates the production of Th2 cytokines**

*Poster Presenter:* Sayantee Hazra (India)

III.527 **Effect of high-fat diet on colonic CD4<sup>+</sup> T cells homeostasis in mice**

*Poster Presenter:* Umar Manzoor (Korea, Republic of)

III.528 **TRPV1 beyond the brain: Temperature sensing in the modulation of T CD4+ lymphocytes**

*Poster Presenter:* Suemy Melim Yamada (Brazil)

III.529 **Splicing-aware scRNAseq resolution reveals underlying transcriptional heterogeneity of CD4 T cell subsets**

*Poster Presenter:* Daniil Lukyanov (Russian Federation)

III.530 **Tr17 cells as key regulators of immune tolerance in allergen immunotherapy**

*Poster Presenter:* Amr Gabr (Germany)

III.531 **Single-cell profiling uncovers regulatory programs of pathogenic Th2 cells in allergic asthma**

*Poster Presenter:* Matarr Khan (Austria)

III.532 **Systematic Identification of Human T cell Lineage-Specific Novel Long Non-Coding RNAs**

*Poster Presenter:* Ubaid Ullah Kalim (Finland)

III.533 **Overexpression of Satb1 in CD4+ T cell induces follicular-helper T cell commitment**

*Poster Presenter:* Mehrnoush Shakiba (Germany)

III.536 **Testing Immunotoxicity *in vitro* - the Impact of Bisphenol A on Human T Helper Cells**

*Poster Presenter:* Philip Krohn (Germany)

III.537 **CCR9-CCL25 intrinsic signaling in the thymic dendritic cell (DC) controls central tolerance and gut inflammation**

*Poster Presenter:* Praneet Wahi (India)

III.538 **The role of interferon-alpha in thymocyte development and central tolerance**

*Poster Presenter:* Grette-Ly Mäesalu (Estonia)

III.539 **Homeostatic early-life development of thymic B cells differentiation into memory B cells**

*Poster Presenter:* Maria Rosa Bono (Chile)

**Poster Walk**

12:15 - 13:45

Poster Area

**Cancer 2***Chair:* Tanja Jesenko (Slovenia)*Chair:* Gabriel Rabinovich (Argentina)

III.137 **Integration of histopathological characteristics and the immunological mechanism of bevacizumab in colon cancer treatment**

*Poster Presenter:* Ana Miquelão (Brazil)

III.138 **Immunotherapy combinations to overcome mono-therapy resistance in lung cancer**

*Poster Presenter:* Bassel Alsaed (Finland)

III.139 **Collagen targeting IL-12 combined with Doxorubicin enhances the anti-tumour effect against osteosarcoma**

*Poster Presenter:* Takumi Matsuo (United Kingdom)

III.140 **Secreted Clever-1 modulates T cell responses and impacts cancer immunotherapy efficacy**

*Poster Presenter:* Maija Hollmén (Finland)

III.142 **Trogoptosis as the mechanism whereby slan<sup>+</sup>monocytes kill therapeutic antibody-coated cancer cells**

*Poster Presenter:* Camillo Balanzin (Italy)

III.143 **Optimized platform for generating personalized chronic lymphocytic leukemia therapy using T-cells with transgenic TCRs**

*Poster Presenter:* Andrea Aran (Spain)

III.144 **Pronounced antitumor effects of bleomycin electrochemotherapy and anti-PD-1 therapy in mouse tumor models**

*Poster Presenter:* Simona Kranjc Brezar (Slovenia)

III.145 **Design, production optimization, and efficacy evaluation of anti-HER2 CAR-macrophages in breast cancer immunotherapy**

*Poster Presenter:* Didem Cakirsoy Akyoney (Sweden)

III.146 **Improved T cell metabolism through metabolic enhancement can boost anti-tumor effector function**

*Poster Presenter:* Philipp Lang (Germany)

III.147 **Salmonella as cancer immunotherapy: role of CD8 T cells in the control of melanoma metastatic disease**

*Poster Presenter:* María Moreno (Uruguay)

III.148 **Phase I clinical trial on immune gene therapy using plasmid encoding Interleukin-12 for cutaneous basal cell carcinoma (BCC) of the head and neck**

*Poster Presenter:* Maja Čemažar (Slovenia)

III.149 **TLR7/8-agonist- and antigen conjugated nanogels elicit antigen-specific immune responses against tumors**

*Poster Presenter:* Andrea Weihberg (Germany)

III.150 **Mechanisms of skin toxicities following targeted EGFR therapies: insights from mouse models**

*Poster Presenter:* Marina Gladkova (Austria)

III.151 **Effect of the bacterial-derived Immunopotentiator RTL-1424 on the Immunoregulation of Mesenchymal Stromal Cells with antitumor therapeutic potential in a mouse model of breast cancer**

*Poster Presenter:* Víctor Adrián Cortés-Morales (Mexico)

III.152 **Use of monoclonal antibody for cancer treatment in a Brazilian**

**municipality***Poster Presenter:* Ana Miquelão (Brazil)

III.153 **Regional distribution of bevacizumab acquisition in Brazil and its correlation with colon cancer incidence: a study based on SUS data**

*Poster Presenter:* Ana Miquelão (Brazil)

III.154 **RNA editing analysis reveals immune-related noncoding RNA networks underlying T315I-mediated Imatinib resistance in chronic myeloid leukemia**

*Poster Presenter:* Zhiwei Jiang (Hong Kong)

III.155 **Profile of patients using immunobiologics to treat breast cancer in a small town in southern Brazil**

*Poster Presenter:* Ana Miquelão (Brazil)*Poster Walk*

12:15 - 13:45

Poster Area

**Mixed topics 1***Chair:* Tomabu Adjobimey (Benin)

III.399 **The immune system is more than the sum of its parts - the combination of different cell populations analysed with a five colour EliSpot assay**

*Poster Presenter:* Rosemarie Preyer (Germany)

III.400 **Lymphoid-tissue-on-chip to recapitulate human adaptive immune responses and to predict drug-immune-cell interactions in vitro**

*Poster Presenter:* Claudia Teufel (Germany)

III.401 **Evaluating heterogeneous antibody-dependent effector functions at the single-cell level**

*Poster Presenter:* Sanja Popovic (Sweden)

III.402 **Novel WSI modes for IMC unveil extensive cellular heterogeneity in human gliomas**

*Poster Presenter:* Melissa Klug (Germany)

III.403 **Imaging immune synapse and actin remodeling reveals NgR1-mediated modulation of brain tumor immunity**

*Poster Presenter:* Seong-Eun Kim (Korea, Republic of)

III.404 **Thoracic Aortic Aneurysm Patients with Bicuspid Aortic Valve Reveal Unique Inflammatory Signatures and Immune Cell Spatial Distribution and Phenotypes in Multi-Omic Integration Analyses**

*Poster Presenter:* Hosu Kim (Korea, Republic of)

III.405 **Intravital microscopy revealed selective accumulation of the fluorescently labeled betulinic acid conjugate in Kupffer cells**

*Poster Presenter:* Emil Yamansarov (Russian Federation)

III.406 **Protein O-GlcNAcylation regulates the homeostasis of innate B lymphocytes**

*Poster Presenter:* Yi-Hsuan Chang (Taiwan)

III.407 **Lipolysis drives neutrophil infiltration into adipose tissue and exacerbates insulin resistance after myocardial infarction in obesity**

*Poster Presenter:* Prabhakara Nagareddy (United States)

III.408 **CXCL10/CXCR3 signaling regulates immune cell migration into the inflamed pancreas in experimental pancreatitis**

*Poster Presenter:* Shenja Buchholz (Germany)

III.409 **Structural regulation of integrin alpha4beta7 by small GTPase**

**Rap1: conformational evaluations using novel conformation-specific monoclonal anti-b7 antibodies***Poster Presenter:* Tsuyoshi Sato (Japan)

III.410 **Bexarotene signaling in human B and T lymphocytes induces gut homing receptor expression**

*Poster Presenter:* Sina Kaiser (Germany)

III.411 **Evaluation of the potential effects of PEPITEM on leukocyte trafficking in a mouse model of allergic rhinitis**

*Poster Presenter:* Mustafa Sevim (Turkey)

III.412 **Is MAVS redundant in protecting human airway epithelium from influenza virus infection?**

*Poster Presenter:* Maja Sønderby Hemberg (Denmark)

III.414 **Unravelling tumor-NK cell interaction dynamics in 3D using patient-derived tumor organoid models**

*Poster Presenter:* Jue Shi (Hong Kong)

III.415 **Neutrophils with ontogenetic differences exhibit distinct functions and transcriptional profiles in zebrafish**

*Poster Presenter:* Jorge Galindo-Villegas (Norway)

III.417 **Characterization of an IL-33 expressing, immune-active fibroblast subpopulation**

*Poster Presenter:* Lisa Schmidleithner (Germany)

III.418 **T cell-mediated fibroblast reprogramming drives granuloma formation in sarcoidosis**

*Poster Presenter:* Aglaja Kopf (Austria)

III.419 **RANK-activation of lymphatic endothelial cells is required for follicular dendritic cell differentiation in lymph nodes**

*Poster Presenter:* Zinaida Igamberdieva (France)

III.420 **An AI-enhanced single-cell transcriptomic pipeline uncovers immune modulation in iPSC-derived retinal ganglion cells**

*Poster Presenter:* Zhiwei Jiang (Hong Kong)**Poster Walk**

12:15 - 13:45

Poster Area

**Primary and secondary immunodeficiency***Chair:* Kaan Boztug (Vienna, Germany)

III.465 **Prioritizing experimental models for inborn errors of immunity based on developmental single-cell atlases**

*Poster Presenter:* Luca Calò (Italy)

III.467 **The role of γδT cells in primary antibody deficiencies and their potential contribution to infections**

*Poster Presenter:* Izabela Morawska-Michalska (Poland)

III.469 **Patients with selective antibody deficiency requiring immunoglobulin substitution therapy because of increased susceptibility to bacterial infections show low levels of peripheral blood CD27<sup>+</sup>IgD<sup>+</sup> B cells**

*Poster Presenter:* Hermann Maximilian Wolf (Austria)

III.471 **Relationship between immune dysregulation and infection frequency in patients with common variable immunodeficiency**

*Poster Presenter:* Ümmügülüm Yilmaz Ergün (Turkey)

III.474 **A rare primary immunodeficiency hidden in autoimmunity: Heterozygote CD3G variant in a 49-year-old female patient**

*Poster Presenter:* Altiner Seda (Turkey)

III.475 **Determination of reference intervals for IgG, IgA, and IgM levels by age in healthy Turkish adults**

*Poster Presenter:* Altiner Seda (Turkey)

III.478 **Characterization of novel heterozygous PTPN2 variant in CVID patient with interstitial cystitis**

*Poster Presenter:* Nanni Mamia (Finland)

III.479 **Dysregulated activation of STAT3 and STAT5 pathways in naïve and CD27<sup>bright</sup> memory B cell compartments in patients with common variable immunodeficiency**

*Poster Presenter:* Ola Grimsholm (Austria)

III.480 **Analysis of secondary hypogammaglobulinemia cases according to infectious agents and immunoglobulin replacement results in adult immunology reference center**

*Poster Presenter:* Eda Aslan (Turkey)

III.481 **Systemic adaptive immune responses to chronic muscle damage in Duchenne Muscular Dystrophy**

*Poster Presenter:* Suzan Saidin (France)

*Poster Walk*

12:15 - 13:45

Poster Area

## **Mixed topics 2**

*Chair:* Thomas Vogl (Vienna, Austria)

III.421 **Immunometabolism in single cell resolution - PrEMIuM-seq: projectable epitope and metabolic index couple multi-omics by sequencing**

*Poster Presenter:* Yu-Ming Chuang (Switzerland)

III.422 **Spatial transcriptomics reveal immune compartmentalisation in COPD lungs**

*Poster Presenter:* Ayu Hutami Syarif (Austria)

III.424 **Unveiling the power of high-dimensional cytometry data with cyCONDOR**

*Poster Presenter:* Lorenzo Bonaguro (Germany)

III.425 **Mechanisms ensuring naïve CD4 T-cell resilience 30 years upon total thymectomy performed in early childhood**

*Poster Presenter:* Margarida Paulo-Pedro (Portugal)

III.427 **High-Resolution Profiling of Adipose Tissue Macrophages in Brazilian Populations**

*Poster Presenter:* Tereza Fontes-Cal (Brazil)

III.428 **Single-cell profiling reveals monocyte heterogeneity and tumor-promoting pathways in prostate cancer**

*Poster Presenter:* Kadriia Enikeeva (Russian Federation)

III.429 **Single-cell RNA sequencing reveals signatures of prostate macrophage populations under different experimental setups associated with androgen stimulation**

*Poster Presenter:* Edlaine P. F. Sena (Brazil)

III.430 **Single-cell CRISPR screens: a comparative evaluation of droplet-based and combinatorial split pool barcoding platforms**

*Poster Presenter:* Paul Diehl (United States)

III.431 **A robust protocol for detecting highly expressed and rare intracellular proteins in CD4 T cells and monocytes using cell**

**surface and intracellular oligo-conjugated antibodies***Poster Presenter:* Amber Vaitkute (United States)

III.432 **Genular: an integrated platform for defining cellular identity and function through single-cell Gene expression and multi-domain biological data**

*Poster Presenter:* Ivan Tomic (United States)

III.434 **LymphoidStructureMiner: AI-based exploration of the immunological contexture of lymphoid structures**

*Poster Presenter:* Anastasia Meshcheryakova\* (Austria)

III.435 **Dissecting the biology of lymphoid structures by SIMPEL algorithm**

*Poster Presenter:* Anastasia Meshcheryakova\* (Austria)

III.436 **Innate determinants of T-cell responses to SARS-CoV-2 mRNA vaccination in children**

*Poster Presenter:* Carina J. X. Tay (Singapore)

III.437 **Uncovering miRNAs potential role in NSCLC immunomodulation**

*Poster Presenter:* Pooja Gulhane (India)

III.439 **Precision tolerance: antigen-specific phosphatidylserine enriched liposomes as a platform against autoimmunity**

*Poster Presenter:* Lidia Almenara-Fuentes (Spain)

III.440 **Nanoparticles targeting liver sinusoidal endothelial cells improve AAV gene transfer and promote tolerance-spreading to capsid and transgene epitopes**

*Poster Presenter:* Sabine Fleischer (Germany)

III.441 **Antigen presenting cell-targeted vaccines show durable antigen-specific immune tolerance in mouse models of autoimmune disease**

*Poster Presenter:* Louise Bjerkan (Norway)**Poster Walk**

12:15 - 13:45

Poster Area

**Skin immunology***Chair:* Johanna Strobl (Austria)*Chair:* Wolfgang Weninger (Austria)

III.483 **Deficiency of Themis prevents atopic dermatitis by enhancing Treg homeostasis**

*Poster Presenter:* Gi-Cheon Kim (Korea, Republic of)

III.484 **What lies beneath? Molecular mechanisms of resveratrol actions on skin inflammation and mast cell signaling**

*Poster Presenter:* Carole A. Oskeritzian (United States)

III.485 **The role of Regnase1 in the regulation of skin inflammation in an atopic dermatitis mouse model**

*Poster Presenter:* Natalia Pocałuń (Poland)

III.486 **CD14 attenuates psoriatic dermatitis by promoting FAS-mediated death of activated dendritic cells**

*Poster Presenter:* Kunhee Na (Korea, Republic of)

III.487 **Unraveling the relationship between regulatory T cells and the hair follicle immune privilege in scarring alopecia**

*Poster Presenter:* Karoline Strobl (Austria)

III.488 **Effect of oleic fatty acid on dermal macrophage death reveals a new therapeutic target for inflammatory skin diseases**

*Poster Presenter:* Beatriz Burger (Brazil)

III.489 **Transcriptome profiling of LL-37-induced keratinocytes reveals early induction of chemokine CXCL10 to orchestrate T-cell immune reaction in rosacea**

*Poster Presenter:* Abdul W Ansari (Qatar)

III.490 **Understanding the cutaneous immune response induced by leishmania major**

*Poster Presenter:* Nounagnon Romaric Tochoedo (Germany)

III.492 **Relevance of sensitization to contact fragrance allergens in patients with chronic facial skin diseases**

*Poster Presenter:* Juste Staikunaite (Lithuania)

III.493 **Allogeneic hematopoietic stem cell transplantation induces a type 1/type 17 imbalance in the skin tissue-resident memory T cell pool**

*Poster Presenter:* Laura Marie Gail (Austria)

III.494 **Granzyme K: A key mediator of skin inflammation, keratinocyte proliferation and pruritus**

*Poster Presenter:* David Granville (Canada)

III.495 **Promising anti-angiogenic and anti-inflammatory host defense peptide isolated from the Mexican tree frog, *Pachymedusa dacnicolor*, in the treatment of psoriasis**

*Poster Presenter:* Constance Auvynet (Mexico)

III.496 **Utilizing large-scale sequencing to depict changes in immune cells during cancer immunoediting in epidermal neoplasms**

*Poster Presenter:* Xiying Fan (United States)

III.497 **Evaluation of the immunosuppressive capacity of MSCs from the skin of patients with psoriasis on the proliferation and cytotoxicity of NK and NK-like T cells**

*Poster Presenter:* Keyra Quetzal Ramírez Menes (Mexico)

III.498 **Microbial and microenvironmental cues drive postnatal macrophage specification in the dermis**

*Poster Presenter:* Nisreen Ghanem (Germany)

III.499 **Histone deacetylase 1 as a regulator of CD4<sup>+</sup> T cell maintenance in skin autoimmunity**

*Poster Presenter:* Maria Stigler (Austria)

III.500 **A psoriasis-like CD4<sup>+</sup> T cell-mediated mouse model of skin autoimmunity**

*Poster Presenter:* Julia Feiser (Austria)

III.501 **Decoding neuro-immune crosstalk underlying *Candida albicans*-induced itch in a mouse model**

*Poster Presenter:* Chang Ook Park (Korea, Republic of)

III.502 **Serum haptoglobin as a predictor of treatment response in patients with chronic spontaneous urticaria**

*Poster Presenter:* Young-Min Ye (Korea, Republic of)

#### Poster Walk

12:15 - 13:45

Poster Area

#### COVID

*Chair:* George F. Gao (China)

*Chair:* Anna Ohradanova-Repic (Vienna, Austria)

III.540 **The role of SARS-CoV-2 Membrane protein antibodies in protective humoral immunity**

*Poster Presenter:* Daniel Egan (United Kingdom)

III.541 **Natural infection trumps vaccination in salivary neutralization and tissue protection**

*Poster Presenter:* Gabriel Diem (Austria)

III.542 **Berbamine: a Broad-Spectrum Antiviral Targeting SARS-CoV-2 and Emerging Variants**

*Poster Presenter:* Srikanth Sadhu (India)

III.543 **Sex-related immune responses and gastrointestinal commitment converge to Long COVID sequelae in female patients**

*Poster Presenter:* Cristina Ribeiro de Barros Cardoso (Brazil)

III.544 **Molecular mechanisms of the SARS-CoV-2 infection blockade by lactoferrin and lactoferricin**

*Poster Presenter:* Patrik Babulic (Slovakia)

III.545 **HLA-E-restricted CD8<sup>+</sup> T cell responses to conserved SARS-CoV-2 peptides are promising for improving vaccination and therapeutic strategies**

*Poster Presenter:* Mahsa Rafieyan (Italy)

III.546 **Optimization and validation of a pseudovirus-based neutralization assay for SARS-CoV-2 antibody detection**

*Poster Presenter:* Eliana L. Faquim-Mauro (Brazil)

III.547 **Immune response profile and rare genetic variants in severe COVID-19 in previously healthy young and middle-aged Latin American patients**

*Poster Presenter:* Luydson Richardson Silva Vasconcelos (Brazil)

III.548 **Comparing host responses to SARS-CoV-2 mRNA vaccination in adults and children**

*Poster Presenter:* Hui'en Li (Singapore)

III.549 **B cell immunity to SARS-CoV-2: insights into vaccine and hybrid responses across age groups**

*Poster Presenter:* Ahmad Faisal (Singapore)

III.550 **Hybrid immunity against SARS-CoV-2: are they all equal?**

*Poster Presenter:* Nurul Elyana Osman (Singapore)

III.551 **Metabolic and antiviral gene expression in isolated NK cells from patients with severe COVID-19 pneumonia**

*Poster Presenter:* Adrian Rosas-Taraco (Mexico)

III.553 **Dysregulation of Selenoprotein RNA Expression and Editing Drives Monocyte Heterogeneity and Cell Death in COVID-19**

*Poster Presenter:* Zongren Xu (Hong Kong)

III.554 **Single cell culture platform for the comprehensive analysis of human memory B cell repertoire: a study of the humoral response to SARS-CoV-2**

*Poster Presenter:* Alberto Nobrega (Brazil)

III.555 **Long-term follow-up on determinants of SARS-CoV-2 immunity in asymptomatic-to-moderate COVID-19 patients in sub-Saharan Africa**

*Poster Presenter:* Wim Adriaensen (Belgium)

III.556 **Long Covid and Autoimmunity, Abidjan Côte d'Ivoire**

*Poster Presenter:* Chiaye Claire Antoinette YAPO-CREZOIT (Cote D'Ivoire)

III.557 **A novel perspective on macrophage killing of SARS-CoV-2 infected cells**

*Poster Presenter:* HANG ZHONG (Finland)

III.558 **INTERLEUKIN-6 INDUCES LUNG HYPERINFLAMMATION AND MEDIATES IMMUNOPATHOLOGY DURING SARS-CoV-2 INFECTION IN MICE**

*Poster Presenter:* Marina Drutskaya (Russian Federation)

III.559 **YKL-40 as a biomarker for the innate immunity after COVID-19 infection**

*Poster Presenter:* Julia Kzhyshkowska (Germany)

III.560 **SARS-CoV-2 hijacks host cellular proteins to expand tropism and subvert antiviral innate immune responses**

*Poster Presenter:* Anna Ohradanova-Repic (Austria)

*Poster Walk*

12:15 - 13:45

Poster Area

**Cancer 3**

*Chair:* Eric Vivier (Marseille-Luminy, France)

*Chair:* Alexandra Flemming (United Kingdom)

III.157 **Empower Your Research: Automated Cell Separation - Flexible, Reliable, Simple**

*Poster Presenter:* Susanne Höher-Peters (Germany)

III.158 **Nanoparticulate TLR4-agonist/Saponin adjuvanted peptide vaccines for melanoma**

*Poster Presenter:* Nilgun Yakubogullari (Turkey)

III.161 **Investigation of Two CAR-T Cell Lymphoma Cases Identified Genomic Aberrations as Potential Cause of Malignant Transformation**

*Poster Presenter:* Arman Safavi (Australia)

III.163 **Cytokine induced killer cell therapy as a treatment strategy for colorectal cancer metastases**

*Poster Presenter:* Kevin Fenix (Australia)

III.164 **DART<sup>2</sup>OS: devising advanced TCR-T-cells to eradicate osteosarcoma**

*Poster Presenter:* Natalia Novikova (Austria)

III.165 **Identification of tumor-specific T-cell receptors**

*Poster Presenter:* Gaiane Lopukhova (Russian Federation)

III.166 **Revealing novel evasion mechanisms of leukemic cells from natural killer cells**

*Poster Presenter:* Eva Maria Putz (Austria)

III.168 **CAR-PBMCs as a novel strategy against EGFR positive solid tumors**

*Poster Presenter:* Florina Bojin (Romania)

III.169 **Granzyme B as a potential therapeutic target in head and neck cancer immunotherapy: expression and cytotoxic activity analysis**

*Poster Presenter:* Filip Lewandowski (Poland)

III.170 **Salmonella-based cancer immunotherapy relies on tumor metabolic changes**

*Poster Presenter:* Amy Mónaco (Uruguay)

III.171 **REDUCTION OF MYELOID-DERIVED SUPPRESSOR CELLS INDUCED BY THE ANTITUMOR GK-1 PEPTIDE IN A MURINE MODEL OF TRIPLE NEGATIVE BREAST CANCER**

*Poster Presenter:* Juan Hernandez-Aceves (Mexico)

III.173 **Antigen-Specific TCR Discovery Using Single-Cell Analysis: Targeting NY-ESO-1 via HLA-DRB3\*02:02-Restricted CD4<sup>+</sup> T Cells**

*Poster Presenter:* Berta Casanovas-Albertí (Spain)

III.176 **CCL13-CCR3 axis in lung cancer progression and immune landscape**

*Poster Presenter:* Ta-Jung Peng (Taiwan)

III.177 **Granzyme B and apoptotic signaling in head and neck cancer: expression and functional analysis**

*Poster Presenter:* Dominika Bębnowska (Poland)

*Poster Walk*

12:15 - 13:45

Poster Area

**Allergy**

*Chair:* Christian Radauer (Vienna, Austria)

*Chair:* Barbara Bohle (Austria)

III.001 **Risk factors for the development of Stevens-Johnson syndrome and toxic epidermal necrolysis**

*Poster Presenter:* Rezeda Fayzullina (Russian Federation)

III.002 **Genetic Predictors of Atopic Bronchial Asthma in Children: The Role of Fc $\epsilon$ RI $\alpha$  and Fc $\epsilon$ RII**

*Poster Presenter:* Rezeda Fayzullina (Russian Federation)

III.003 **Changes In CD19+ CD38+ IL-10+ Subpopulations In Patients With Allergic Conjunctivitis Treated With Bacterial Suspension**

*Poster Presenter:* Nataly Paulina Arellano Contreras (Mexico)

III.005 **Development of a flow cytometric based assay for the detection of T-cell cytotoxicity modulated killing of target cells**

*Poster Presenter:* Paul Thomson (United Kingdom)

III.006 **Early administration of a handful of birch pollen allergen, Bet v 1-derived peptides induces tolerance against Bet v 1 and cross-reactive PR10 allergens**

*Poster Presenter:* Tianchi Jiang (Austria)

III.007 **Development of a wheat allergen chip (WAMA) for analysis of wheat allergen-specific IgE, IgA, IgG, IgG<sub>1</sub>, and IgG<sub>4</sub> antibody responses**

*Poster Presenter:* Andrea Krisai (Austria)

III.008 **A wheat microarray identifies gamma-gliadin, Tri a 20, as the major allergen in wheat food allergic children**

*Poster Presenter:* Andrea Krisai (Austria)

III.010 **The effect of mouse naturalization on the development of lung mast cells and allergic asthma**

*Poster Presenter:* Yu-Wen Yeh (Hong Kong)

III.011 **Valproic acid decreases Fc $\epsilon$ RI mediated mast cell activation and passive cutaneous anaphylaxis**

*Poster Presenter:* Rommel Chacon-Salinas (Mexico)

III.012 **Development of an *in vitro* de-risking platform for the screening of drug-candidates modulating mast cell functions**

*Poster Presenter:* Lisa Scanduzzi (Netherlands)

III.013 **Tuning immune tolerance against mugwort pollen allergy using full-length altered-peptide ligand of Art v 1 encapsulated in virus-like nanoparticles**

*Poster Presenter:* Al Nasar Ahmed Sehgal (Austria)

III.014 **Exploring the impact of antibody affinity on IgE-blocking activity in allergen immunotherapy**

*Poster Presenter:* Katarína Repiská (Austria)

III.015 **Transplacental transfer of Bet v 1-blocking IgG antibodies**

**following subcutaneous administration of recombinant allergy  
vaccine ABP-Vax to pregnant rats**

*Poster Presenter:* Danila Gurskii (Russian Federation)

III.016 **Evaluation of safety and immunogenicity profile of maize storage  
protein bodies for use in oral immunotherapy in a murine model**

*Poster Presenter:* Larissa Koidl (Austria)

III.017 **Diversity of Artemisia pollen allergens: molecular approach to  
improve the diagnosis and immunotherapy**

*Poster Presenter:* Zhongshan Gao (China)

III.018 **Determination of the IgE sensitization profiles in Russia using  
micro-arrayed allergen molecules**

*Poster Presenter:* Alexander Karaulov (Russian Federation)

*Poster Walk*

12:15 - 13:45

Poster Area

**Autoimmunity 1**

*Chair:* Carola G. Vinuesa (United Kingdom)

*Chair:* Matteo Villa (Austria)

III.038 **Comprehensive immunopeptidomic analysis in rheumatoid arthritis  
and osteoarthritis patients reveals HLA-DR-associated peptides  
with autoantigenic potential**

*Poster Presenter:* Jaxaira Maggi (Spain)

III.040 **Functional dissection of immunopathological mechanisms  
underlying MHC class II-linked autoimmune diabetes susceptibility**

*Poster Presenter:* Yu-Wen Liu (Taiwan)

III.041 **Autoantibody profile and study of IRF5, STAT4, PTPN22, CD226  
genes in Algerian systemic sclerosis patients**

*Poster Presenter:* Khalissa Saidani (Algeria)

III.042 **Increased T-bet<sup>+</sup> B cells population in an autoimmune mouse  
model with NOX2 deficiency**

*Poster Presenter:* Miao-Shan Lin (Taiwan)

III.043 **Profile of Patients with Rheumatoid Arthritis Undergoing  
Treatment with Immunobiologics in the SUS: A Descriptive Study**

*Poster Presenter:* Ana Miquelão (Brazil)

III.044 **Janus-Kinase-Inhibitors significantly inhibit STAT signaling of  
varicella-zoster-virus-(VZV)-specific T cell recall responses**

*Poster Presenter:* Giovanni Almanzar (Germany)

III.045 **Investigating the Role of FcRL3-Expressing Regulatory T Cells in  
the Pathogenesis of Crohn's Disease**

*Poster Presenter:* Raphael Sanches Peres (Brazil)

III.047 **Defining the source and effect of IL-23 in the lymph node during  
Experimental Autoimmune Encephalomyelitis (EAE) induction**

*Poster Presenter:* Sigalit Boura-Halfon (Israel)

III.049 **Linking environmental exposure to autoimmunity: BaP enhances  
PLA2R immunogenicity in PMN**

*Poster Presenter:* Fangling Ji (China)

III.050 **Carbohydrate-mediated "innate" considerations in vaccine design  
against *S. pneumoniae* and *N. meningitidis***

*Poster Presenter:* Fabrizio Chiodo (Italy)

III.051 **Reduced sialic acid expression on tumour cells promotes an anti-  
tumour immune landscape in melanoma**

*Poster Presenter:* Magali Coccimiglio (Netherlands)

III.053 **Host gut microbiota-derived secondary bile acids intercept inflammatory immune cell driven malignancies of intestinal epithelial cells: implications in IBD and colon cancer**

*Poster Presenter:* Trinath Jamma (India)

III.054 **A mast cell targeted approach for inflammatory bowel disease through novel peptide as a therapeutic.**

*Poster Presenter:* Pooja Kushwaha (India)

III.056 **Identification of a Zinc transporter gene as new candidate for experimental colitis**

*Poster Presenter:* Inga Bruesch (Germany)

III.057 **Deciphering the regulatory role of CD14 on macrophages in a murine acute colitis model**

*Poster Presenter:* Anne Rosier (Germany)

*Poster Walk*

12:15 - 13:45

Poster Area

### **Immunometabolism**

*Chair:* Thomas Weichhart (Austria)

*Chair:* Luciana Balboa (Argentina)

III.260 **Neutrophils limit macrophage-driven inflammation via metabolic competition**

*Poster Presenter:* Paul Ettel (Austria)

III.261 **Metabolic Reprogramming Drives Cancer Metastasis to Lymph Nodes**

*Poster Presenter:* Mei-Chun Lin (Taiwan)

III.264 **Effect of supplementation with omega-3 fatty acids and anthocyanins on the bioenergetic and inflammatory profile of monocytes of patients with type 2 diabetes mellitus**

*Poster Presenter:* Guillermo Juárez-Vega (Mexico)

III.266 **Metabolic disharmony in the context of inborn errors of immunity as a framework to understand functional impairments and identify therapeutic possibilities**

*Poster Presenter:* Michael James Kraakman (Austria)

III.267 **Negative regulation of osteoclastogenesis by AMPK $\alpha$ 1 attenuates bone pathology**

*Poster Presenter:* Sandra Fukada (Brazil)

III.269 **SARM1 impacts the regulation of the inflammatory response mediated by CD4 T cells**

*Poster Presenter:* Samuel Oliveira (Brazil)

III.270 **Polyamine metabolism controls B-to-Z DNA transition to prevent ZBP1-mediated radiation injury**

*Poster Presenter:* Yue Fu (China)

III.271 **Polyamines block cGAMP transmission and activity to attenuate STING-driven antitumor immunity**

*Poster Presenter:* Chunyuan Zhao (China)

III.273 **Dietary effects on cellular and metabolic dynamics of B lymphocytes**

*Poster Presenter:* Luisa Menezes-Silva (Brazil)

III.274 **Interaction of TLR-mediated and TGF $\beta$ -induced pathways triggers inflammatory programs in human macrophages in diabetic**

**conditions**

*Poster Presenter:* Julia Kzhyshkowska (Germany)

III.275           **The role of HIF1a axis in the function and metabolism of ROR $\gamma$ Tregs**

*Poster Presenter:* Marcella Cipelli (Brazil)

**Poster Walk**

12:15 - 13:45

Poster Area

**Infectious diseases 1**

*Chair:* Matthew Sinton (United Kingdom)

*Chair:* Wilfried Posch (Innsbruck, Austria)

III.318           **Genetic and phenotypic characterization of a Rabies Virus strain isolated from dogs in Sindh, Pakistan**

*Poster Presenter:* Talat Roome (Pakistan)

III.319           **Cytomegalovirus infection in preterm and HIV-exposed infants: a prospective South African cohort study**

*Poster Presenter:* Nicole Prins (South Africa)

III.321           **Elucidating the functional roles of glycoconjugate-induced monoclonal antibodies in pneumococcal immunity**

*Poster Presenter:* Pratiksha Shome (India)

III.322           **A multiplex assay to simultaneously detect pan-hepatitis virus-specific antibody responses**

*Poster Presenter:* Alex Dulovic (Germany)

III.323           **Immunosurfaceome of *Plasmodium vivax* infected red blood cells**

*Poster Presenter:* Lídia Cordeiro (Brazil)

III.324           **Analysis of immune cells and pathways in the development and outcome of post-TB lung disease**

*Poster Presenter:* Raphael Kamng'ona (Gambia)

III.325           **Immune profiling in subclinical secondary dengue-infected cases reveals adaptive immune signatures correlated to protection from severe dengue**

*Poster Presenter:* Tineke Cantaert (Cambodia)

III.327           **Immunometabolic profiling of *Mycobacterium tuberculosis* infected lung tissue**

*Poster Presenter:* Wadzanai Manjeese (South Africa)

III.328           ***In vivo* analysis of DEC-205 $^+$  DC in Peyer's patches and mesenteric lymph nodes of BALB/c mice orally infected with *Brucella abortus* 2308**

*Poster Presenter:* Ana Beatriz Sánchez Argáez (Mexico)

III.329           **Detection of *Brucella abortus* in intestinal epithelial cells in a murine model intragastrically inoculated**

*Poster Presenter:* Estefania Herrera Torres (Mexico)

III.330           **Early host-pathogen interaction of *Mycobacterium tuberculosis* in the macrophage**

*Poster Presenter:* Arnaud Machelart (France)

III.331           **Toll-like receptor agonist Rv2627c and Rv2628 proteins of dormancy survival regulon of *Mycobacterium tuberculosis* can act as adjuvants in therapeutic vaccines**

*Poster Presenter:* Parul Bhatt (India)

III.333           **Deciphering the early innate immune response of nasal mucosa to *Bordetella pertussis* infection**

*Poster Presenter:* Ludmila Blechova (Czech Republic)

III.334 **HBHA-IGRA and cytotoxic mediators release assays for the diagnosis of cervical tuberculous lymphadenitis**

*Poster Presenter:* Chaouki Benabdessalem (Tunisia)

III.335 **High serocoverage of RTS,S/AS01<sub>e</sub> vaccine in a targeted endemic population in Malawi post COVID-19 pandemic**

*Poster Presenter:* Thembikile Nyasulu (Malawi)

III.336 **The adipose tissue influences the inflammatory response and severity of cutaneous leishmaniasis**

*Poster Presenter:* Edgar Carvalho (Brazil)

*Poster Walk*

12:15 - 13:45

Poster Area

**Infectious diseases 2**

*Chair:* Kerry Hilligan (New Zealand)

*Chair:* Philipp Starkl (Austria)

III.338 **Development of a novel serological assay for the detection of binding antibodies reactive with oropouche virus**

*Poster Presenter:* William Lee (United States)

III.339 **Systemic IgG responses to glycosylated mucinase YghJ after experimental enterotoxigenic *Escherichia coli* infection**

*Poster Presenter:* Saman Riaz (Norway)

III.340 **Understanding the impact of low, medium and high malaria preexposure status on SARS- COV-2 specific antibodies and functionality in Tanzanian individuals**

*Poster Presenter:* Anneth-Mwasi Tumbo (Tanzania)

III.342 **Memory HBx-specific T cells associate with viral control**

*Poster Presenter:* Guihai Liu (United Kingdom)

III.343 **Complement system activation in patients with human leptospirosis-associated pulmonary hemorrhagic syndrome**

*Poster Presenter:* Milena Carvalho Carneiro (Brazil)

III.344 **Influenza immune history is associated with disease severity**

*Poster Presenter:* Joel Cherian Jacob (Israel)

III.345 **IL-33 potentiates mast cell cytokine production in response to *Listeria monocytogenes***

*Poster Presenter:* Yatsiri Guadalupe Meneses-Preza (Mexico)

III.346 **Influenza H1N1 Strains Differ with Respect to their Potential for Dominating Immune Formation during Secondary Viral Exposures**

*Poster Presenter:* Elias Tjärnhage (Norway)

III.347 **Immune signatures predict treatment outcome in cutaneous leishmaniasis patients**

*Poster Presenter:* Augusto Carvalho (Brazil)

III.348 ***Yersinia pestis* cytoplasmic antigens dominate the targets of specific antibodies elicited after pneumonic plague exposure, highlighting the key role of T cell immunity**

*Poster Presenter:* Olifara Andriatefy (Madagascar)

III.350 **Comparative evaluation of automated IGRA vs ELISA for the diagnosis of latent tuberculosis infection**

*Poster Presenter:* Evgenia Katsimpourlia (Greece)

III.351 **The inflammasome adaptor *pycard* is essential for immunity**

**against *Mycobacterium marinum* infection in adult zebrafish**

Poster Presenter: Maiju Junno (Finland)

III.352 **The IL-17A and IFN- $\gamma$  dichotomy in MASLD compromises the immune response to mCMV infection**

Poster Presenter: Karlo Mladenić (Croatia)

III.354 **IgG and IgM specific to hemorrhagic fevers viruses' carriers in human in Mali: cases of *Crimean-Congo Hemorrhagic Fever, Rift Valley Fever, Ebola, Lassa and Hantavirus***

Poster Presenter: Bourema KOURIBA (Mali)

III.355 **Myeloid cells in a mouse model of chlamydial infection**

Poster Presenter: Lang Peng (Germany)

III.356 **Pleural effusion effects a host mRNA biosignature more than a host protein biosignature in fingerstick blood of people with pulmonary tuberculosis**

Poster Presenter: Lebogang Reetsang (South Africa)

III.357 **Investigation into the peripheral localization, morphology, and host/pathogen interaction of Myeloid-derived suppressor cells (MDSCs) during stages of Human tuberculosis lymph nodes granuloma evolution**

Poster Presenter: Sefiyat Odunola Adebiyi (South Africa)

*Poster Walk*

12:15 - 13:45

Poster Area

**Neuroimmunology**

Chair: Ulrich H. von Andrian (United States)

Chair: David Hafler (United States)

III.443 **Cytokine profiles in schizophrenia: insights from hospitalized and non-hospitalized patients**

Poster Presenter: Joice Margareth de Almeida Rodolpho (Brazil)

III.444 **Cholinergic activation modulates gut microbiota composition and strengthens intestinal barrier integrity**

Poster Presenter: Maria Fernandez-Cabezudo (United Arab Emirates)

III.445 **Role of Vasoactive intestinal peptide in regulation of Fat-associated lymphoid clusters**

Poster Presenter: Katja J Jarick (Germany)

III.446 **Alterations in cochlear and systemic immune responses triggered by the c.151C>T mutation in cochlin: insights from a humanized DFNA9 mouse model**

Poster Presenter: Evi De Backer (Belgium)

III.449 **HLA dependency and possible clinical relevance of intrathecally synthesized anti-IgLON5 IgG4 in anti-IgLON5 disease**

Poster Presenter: Inga Koneczny (Austria)

III.452 **Early-life Brain-Resident Regulatory T cells regulate neuro-immune homeostasis**

Poster Presenter: Ho-Keun Kwon (Korea, Republic of)

III.453 **Gut Microbiota and Neurobiological Alterations in a Mouse Model of Binge Eating Disorder**

Poster Presenter: Janet Ježková (Czech Republic)

III.454 **Antidepressants modulate the neuroimmune cytokine network in major depression disorder (MDD)**

Poster Presenter: Roseane Nava (Brazil)

III.455 **Listening to nerves: mapping neuroimmune crosstalk in lymph nodes through single-cell insights**  
*Poster Presenter:* Paul Schütz (Germany)

III.456 **Fungal footprints in Multiple Sclerosis: The gut mycobiome's role on immune function and disease**  
*Poster Presenter:* Markus Kleinewietfeld (Belgium)

III.457 **Neuroinflammation characterization of the multiple sclerosis transgenic mouse model expressing DRB1\*1502**  
*Poster Presenter:* Elsa Reyes-Reyes (United States)

III.458 **Modulation of T cell function and exhaustion by  $\beta$ 2-adrenergic ligands during chronic activation *in-vitro***  
*Poster Presenter:* Mehri Hajiaghayi (Canada)

III.459 **Long noncoding RNAs as potential therapeutic targets in regulating neuroinflammation and Parkinson's disease: insights from a rehabilitation study**  
*Poster Presenter:* Francesca La Rosa (Italy)

III.462 **Hemopressin, a cannabinoid peptide, protects against cognitive impairments of sepsis-associated encephalopathy in mice**  
*Poster Presenter:* Claudia Benjamim (Brazil)

III.463 **Central oxytocin regulation of inflammation**  
*Poster Presenter:* Megan Sammons (Israel)

*Industry Session*

12:30 - 13:30

Hall L3

**Industry session***Keynote Lecture*

13:45 - 14:15

Hall A

**Immunological memory - Location, imprinting, persistence**

Chair: Steffen Jung (Rehovot, Israel)

**Immunological memory - Location, imprinting, persistence**

13:45 - 14:15

Keynote Speaker: Andreas Radbruch (Germany)

*Rising Star*

14:15 - 15:00

Hall A

**Rising stars**

Chair: Andreas Radbruch (Germany)

**Extrinsic factors dictating plasma cell longevity**

14:15 - 14:25

Rising Star Awardee: Renan V. H. de Carvalho (United States)

**Targeting protective human B cell epitopes for therapeutic antibodies against Mpox**

14:25 - 14:35

Rising Star Awardee: Camila Coelho (United States)

**A Novel Equitable Approach to Immune Monitoring and Cancer Trials**

14:35 - 14:45

Rising Star Awardee: Helen McGuire (Australia)

**Discussion**

14:45 - 15:00

*Award Lecture*  
15:00 - 15:45

Hall A

**EXCELL Award lecture: The biology behind PD-1 pathway blockade**  
Chair: Sylvia Knapp (Vienna, Austria)

**The biology behind PD-1 pathway blockade**

15:00 - 15:45

Keynote Speaker: Arlene Sharpe (United States)

*Break*  
15:30 - 16:00

Exhibition Hall

**Coffee Break (Exhibition Hall)**

*Plenary Lecture*  
16:00 - 17:00

Hall E1

**Mechanisms of autoimmunity**

Chair: Vijay Kuchroo (Boston, United States)  
Chair: Gunnur Deniz (Istanbul, Turkey)

**Role of Th17 cells in the induction of autoimmunity**

16:00 - 16:30

Plenary Speaker: Vijay Kuchroo (United States)

**Thymic mimetic cells**

16:30 - 17:00

Plenary Speaker: Diane Mathis (United States)

*Plenary Lecture*  
16:00 - 17:00

Hall E2

**Inflammaging and metabolic regulation**

Chair: Luke O'Neill (Ireland)  
Chair: Thomas Weichhart (Austria)

**How mitochondria control cytokines**

16:00 - 16:30

Plenary Speaker: Luke O'Neill (Ireland)

**Journey of CD8+ T cells: from naïve to memory**

16:30 - 17:00

Plenary Speaker: Bo Huang (China)

*Plenary Lecture*  
16:00 - 17:00

Hall F1

**B cell function in diseases**

Chair: Carola G. Vinuesa (United Kingdom)  
Chair: Christine Falk (Germany)

**Roles of the transcription factors TCF1 and LEF1 in B cell stemness and regulatory capacity.**

16:00 - 16:30

Plenary Speaker: Carola G. Vinuesa (United Kingdom)

**B cell depletion therapies in MS - Exploring mechanisms of action**

16:30 - 17:00

Plenary Speaker: Jennifer Gommerman (Canada)

*Plenary Lecture*  
16:00 - 17:00

Hall F2

**Novel therapeutic approaches in cancer and inflammation**

Chair: Iain McInnes (United Kingdom)  
Chair: Olivera Finn (United States)

**Molecular dissection of arthritis - towards new therapeutics?**

16:00 - 16:30

Plenary Speaker: Iain McInnes (United Kingdom)

**Organoids in cancer and inflammation**

16:30 - 17:00

Plenary Speaker: Hans Clevers (Netherlands)

*Podcast*

16:00 - 17:00

Hall M

**The immunology podcast presents: the evolution of mRNA-based dendritic cell cancer vaccines***Moderator:* Brenda Raud (Netherlands)*Moderator:* Jason Goldsmith (United States)**Presentation from Zwi Berneman***Speaker:* Zwi Berneman (Belgium)*Satellite Symposium*

17:00 - 18:30

Hall A

**Post-covid diseases***Chair:* Eva Untersmayr (Austria)**Immune-profiling in PAIS patients**

17:00 - 17:30

*Speaker:* Akiko Iwasaki (United States)**Microbiota-immune interaction in PAIS**

17:30 - 18:00

*Speaker:* Liam O'Mahony (Ireland)**Immunological patient stratification in PAIS**

18:00 - 18:30

*Speaker:* Eva Untersmayr (Austria)*Abstract Session after Plenary*

17:00 - 17:30

Hall E1

**Mechanisms of autoimmunity and allergy***Chair:* Vijay Kuchroo (Boston, United States)*Chair:* Gunnur Deniz (Istanbul, Turkey)**Autoantigen-specific CD4+ T cells acquire an exhausted phenotype and persist in patients with antigen-specific autoimmune diseases**

17:00 - 17:10

*Oral Abstract Presenter:* Carina Saggau (Germany)**Foxp3-transduced T cells acquire a Treg-like epigenetic and transcriptional landscapes and suppressive function *in vivo***

17:10 - 17:20

*Oral Abstract Presenter:* Yuxi Wei (Japan)**Do polypropylene micro- and nanoplastics influence allergic sensitization?**

17:20 - 17:30

*Oral Abstract Presenter:* Sahar Kazemi (Austria)*Abstract Session after Plenary*

17:00 - 17:30

Hall E2

**Inflammaging and metabolic regulation***Chair:* Luke O'Neill (Ireland)*Chair:* Thomas Weichhart (Austria)**Runx3/Cbf $\beta$ regulates development and function of RorYt $^+$  Thetis cells that drive differentiation of RorYt $^+$  pTreg for gut homeostasis**

17:00 - 17:10

*Oral Abstract Presenter:* Ichiro Taniuchi (Japan)**24-Nor-ursodeoxycholic acid improves intestinal inflammation by targeting Th17 immunometabolism and transdifferentiation**

17:10 - 17:20

*Oral Abstract Presenter:* Ci Zhu (Austria)**Spatial multi-omics integration reveals sphingosine-mediated T cell exclusion and exhaustion in immunotherapy-resistant colorectal cancer**

17:20 - 17:30

*Oral Abstract Presenter:* Youqiong Ye (China)

*Abstract Session after Plenary*

17:00 - 17:30

Hall F1

**Autoimmunity and allergy**

Chair: Carola G. Vinuesa (United Kingdom)

Chair: Christine Falk (Germany)

**The role of thymic B cells in central T cell tolerance**

17:00 - 17:10

Oral Abstract Presenter: João Augusto Freitas (Germany)

**Characterization of a transgenic mouse model to investigate Bet v 1-specific T cell responses and PR-10 cross-reactivity in birch pollen allergy**

17:10 - 17:20

Oral Abstract Presenter: Mirjam Schaar (Austria)

**A recombinant hypoallergenic allergy vaccine containing peptides of the six most important house dust mite allergens**

17:20 - 17:30

Oral Abstract Presenter: Susanne Vrtala (Austria)

*Abstract Session after Plenary*

17:00 - 17:30

Hall F2

**Novel therapeutics approaches in cancer and inflammation**

Chair: Iain McInnes (United Kingdom)

Chair: Olivera Finn (United States)

**IL-12 expression on allergen-laden VNP enhances their Th1 priming activity and reduces Th2 responses in a humanized preclinical model of mugwort allergy**

17:00 - 17:10

Oral Abstract Presenter: Bernhard Kratzer (Austria)

**Molecular IgE sensitization profiling with micro-arrayed allergen molecules in asthmatics from the LEAD cohort: A precision medicine approach**

17:10 - 17:20

Oral Abstract Presenter: Huey-Jy Huang (Austria)

**TRED-I: Cancer immunotherapy through MHC class I by targeted demethylation of NLRC5**

17:20 - 17:30

Oral Abstract Presenter: Koichi Kobayashi (Japan)

**Human anti-HER2 CAR-engineered macrophages from differentiated CD34+ Umbilical Cord Blood Hematopoietic Stem Cell to treat solid tumors**

17:30 - 17:40

Oral Abstract Presenter: Rodrigo Nalio Ramos (Brazil)

*Industry Session*

17:45 - 18:30

Hall L1 &amp; L2

**Industry session***Industry Session*

17:45 - 18:30

Hall L3

**Industry session***Networking Event*

20:00 - 23:00

Offsite

**Congress party**

**Friday, 22. August 2025***Plenary Lecture*

08:30 - 09:30

Hall F1

**Immune memory and tissue residency**

Chair: Donna Farber (United States)

Chair: Gabrielle Belz (Brisbane, Australia)

**Defining TRM cell fate: the combined influence of TCR signaling and tissue instruction**

08:30 - 09:00

Plenary Speaker: Laura Mackay (Australia)

**Niche occupancy and maintenance of tissue resident memory T cells**

09:00 - 09:30

Plenary Speaker: Donna Farber (United States)

*Plenary Lecture*

08:30 - 09:30

Hall F2

**Innate immunity and sensing of danger**

Chair: Xuetao Cao (China)

Chair: Sylvia Knapp (Vienna, Austria)

**RNA regulation in the control of immune responses: Regnase-1 as a key brake on inflammation**

08:30 - 09:00

Plenary Speaker: Osamu Takeuchi (Japan)

**hnRNP-A2B1 innate activation of immune response against infection and cancer**

09:00 - 09:30

Plenary Speaker: Xuetao Cao (China)

*Plenary Lecture*

08:30 - 09:30

Hall L1 &amp; L2

**Cancer immunity and immunotherapy**

Chair: Gabriel Rabinovich (Argentina)

Chair: Antonia Müller (Austria)

**CAR therapies: reprogrammed T cells in the clinic**

08:30 - 09:00

Plenary Speaker: Michel Sadelain (United States)

**Galectins as multifunctional glycocheckpoints: A sweet future for immunotherapy**

09:00 - 09:30

Plenary Speaker: Gabriel Rabinovich (Argentina)

*Plenary Lecture*

08:30 - 09:30

Hall L3

**Infectious diseases**

Chair: Mauro Martins Teixeira (Brazil)

Chair: Sabelle Jallow (South Africa)

**The resolution of inflammation in the context of acute infections**

08:30 - 09:00

Plenary Speaker: Mauro Martins Teixeira (Brazil)

**Inflammatory cytomegalovirus-specific T cell immunity during pregnancy: can they be found in the placenta?**

09:00 - 09:30

Plenary Speaker: Clive Gray (South Africa)

*Upon Invitation*

08:30 - 09:30

Room 0.49-50

**New Exco Meeting - Upon Invitation**

*Abstract Session after Plenary*

09:30 - 10:00

Hall F1

**Immune memory and tissue residency**

Chair: Donna Farber (United States)

Chair: Gabrielle Belz (Brisbane, Australia)

**Killer cell Immunoglobulin-like Receptors delineate distinct phenotypes and functions in human  $\gamma\delta$  T cells**

09:30 - 09:40

Oral Abstract Presenter: Zakia Djaoud (Canada)

**Loss of intraocular MAIT cells during the chronic stage of non-infectious uveitis: an indicator of a protective role**

09:40 - 09:50

Oral Abstract Presenter: Soumyava Basu (India)

**Interlinked roles for HEB and Id3 in fetal gamma-delta T cell commitment and functional programming**

09:50 - 10:00

Oral Abstract Presenter: Michele Kay Anderson (Canada)

*Abstract Session after Plenary*

09:30 - 10:00

Hall F2

**Innate immunity and sensing of danger**

Chair: Xuetao Cao (China)

Chair: Sylvia Knapp (Vienna, Austria)

**Oral and gut bacteriome fingerprint in patients submitted to allogeneic hematopoietic stem cell transplantation**

09:30 - 09:40

Oral Abstract Presenter: Gislane Lelis Vilela de Oliveira (Brazil)

**Gene duplications and whole locus duplication shape the Immunoglobulin Heavy chain locus organization in Chiroptera**

09:40 - 09:50

Oral Abstract Presenter: Jesus Martinez-Barnetche (Mexico)

**MAIT cells represent a major population of antibacterial tissue-resident memory T (T<sub>RM</sub>) cells in the human gastrointestinal tract**

09:50 - 10:00

Oral Abstract Presenter: Xingchi Chen (China)

*Abstract Session after Plenary*

09:30 - 10:00

Hall L1 &amp; L2

**Cancer immunity and immunotherapy**

Chair: Gabriel Rabinovich (Argentina)

Chair: Antonia Müller (Austria)

**Local delivery of collagen binding IL-12 by STEAP1 CAR-T cells for advanced prostate cancer**

09:30 - 09:40

Oral Abstract Presenter: Koichi Sasaki (United Kingdom)

**Switchable CAR T cells regulated by an orally available small molecule drug**

09:40 - 09:50

Oral Abstract Presenter: Charlotte Zajc (Austria)

**Spatial and cellular remodeling of tumor-draining lymph nodes**

09:50 - 10:00

Oral Abstract Presenter: Carolina Mangana (Austria)

*Abstract Session after Plenary*

09:30 - 10:00

Hall L3

**Infectious diseases**

Chair: Mauro Martins Teixeira (Brazil)

Chair: Sabelle Jallow (South Africa)

**A Safer Alternative: multivalent T cell vaccine against Zika virus**

09:30 - 09:40

Oral Abstract Presenter: Branka Grubor-Bauk (Australia)

**A bladder-blood immune barrier constituted by suburothelial**

09:40 - 09:50

**perivascular macrophages restrains uropathogen dissemination***Oral Abstract Presenter:* Zhutian Zeng (China)**Epithelial cells provide immunocompetence for bacterial clearance before leukocyte development**

09:50 - 10:00

*Oral Abstract Presenter:* Esteban Hoijman (Spain)**Break**

10:00 - 10:30

Exhibition Hall

**Coffee Break (Entrance Hall)****Symposium**

10:30 - 12:00

Hall E

**Immunity across all ages***Chair:* Janko Nikolic (United States)*Chair:* Eya Ben Salah (Lausanne, Switzerland)**Ageing and the response to vaccination**

10:30 - 10:55

*Symposium Speaker:* Michelle Linterman (New Zealand)**No support for old T cells: age-related defects in lymph node stroma doom protective T cell immunity**

10:55 - 11:20

*Symposium Speaker:* Janko Nikolic (United States)**T cells, aging and vaccination**

11:20 - 11:45

*Symposium Speaker:* Birgit Weinberger (Austria)**Panel discussion**

11:45 - 12:00

**Symposium**

10:30 - 12:00

Hall F1

**Stromal interactions in immunity and tissue repair (CSI)***Chair:* Matthew Buechler (Canada)**Lymph node stromal remodeling compromises host immune defense to infection during skin inflammation**

10:30 - 10:50

*Society Symposium Speaker:* Shan Liao (Canada)**A type 1 immune-stromal cell network mediates disease tolerance against intestinal infection**

10:50 - 11:10

*Society Symposium Speaker:* Susan Westfall (Canada)**Fibroblast-macrophage interactions in health and disease**

11:10 - 11:30

*Society Symposium Speaker:* Matthew Buechler (Canada)**TAK1, a key regulator in stromal inflammatory response**

11:30 - 11:50

*Society Symposium Speaker:* Marine Theret (Canada)**Symposium**

10:30 - 12:00

Hall F2

**Clinical Immunology Committee symposium (CIC)***Chair:* Pierre Miossec (Lyon, France)**Introduction**

10:30 - 10:35

*Symposium Speaker:* Pierre Miossec (France)**Update on targeting the most effective adoptive immune cell therapies**

10:35 - 10:55

*Symposium Speaker:* Domenico Mavilio (Italy)**Update on immunopathology of arboviral infections**

10:55 - 11:15

*Symposium Speaker:* Tineke Cantaert (Cambodia)

**Update on the cardio-vascular effects of IL-17**

11:15 - 11:35

*Symposium Speaker:* Pierre Miossec (France)

**Update of neuroimmune interactions in regulating type II immunity**

11:35 - 11:55

*Symposium Speaker:* Vijay Kuchroo (United States)

*Symposium*

10:30 - 12:00

Hall L1 & L2

**Inborn Errors of Immunity: Ever-evolving field advancing science and medicine (IEI)**

*Chair:* Raz Somech (Tel Hashomer, Israel)

**Newborn screening for Severe Combined Immunodeficiency and other IEI**

10:30 - 10:55

*Symposium Speaker:* Raz Somech (Israel)

**NFATC1 deficiency: the thin line between errors of immunity and errors of metabolism**

10:55 - 11:20

*Symposium Speaker:* Kaan Boztug (Germany)

*Symposium*

10:30 - 12:00

Hall L3

**Quality Assessment and Standardization: a crucial issue affecting immunologic assays in research and at the clinical laboratory (QAS)**

*Chair:* Luis Andrade (Brazil)

**Standardization of allergen products: state of the art and novel developments**

10:30 - 10:50

*Symposium Speaker:* Stefan Vieths (Germany)

**Likelihood ratio as a means for harmonization of quantitative immunoassays**

10:50 - 11:10

*Symposium Speaker:* Xavier Bossuyt (Belgium)

**Challenges and perspectives in standardization of serum complement tests**

11:10 - 11:30

*Symposium Speaker:* Ashley Frazer-Abel (United States)

**Current challenges and perspectives in leukocyte immunophenotyping**

11:30 - 11:50

*Symposium Speaker:* Daniela Kužílková (Czech Republic)

*Symposium*

10:30 - 12:00

Hall M1

**Current challenges in Immune-Mediated Inflammatory Diseases (IMID)**

*Chair:* Jerome Martin (France)

*Chair:* Pasquale Maffia (United Kingdom)

**Molecular Heterogeneity of IMIDs: The case of IBD**

10:30 - 10:50

*Symposium Speaker:* Jerome Martin (France)

**Immune dysregulation in cardiovascular disease - from novel mechanisms to therapeutic targeting**

10:50 - 11:10

*Symposium Speaker:* Pasquale Maffia (United Kingdom)

**Innate immune checkpoints in health and disease**

11:10 - 11:30

*Symposium Speaker:* Carla Rothlin (United States)

*Symposium*

10:30 - 12:00

Hall M2

**Artificial Intelligence in immunology***Chair:* Martin Guilliams (Belgium)*Chair:* Amy Mónaco (Montevideo, Uruguay)**AI solutions for healthy aging and precision medicine**

10:30 - 10:55

*Symposium Speaker:* Shai Shen Orr (Israel)**Systems biological analysis of immunity to vaccination and infection**

10:55 - 11:20

*Symposium Speaker:* Bali Pulendran (United States)**AI in Immunology: how to predict and model immune activation in vivo?**

11:20 - 11:45

*Symposium Speaker:* Martin Guilliams (Belgium)**Panel discussion**

11:45 - 12:00

*Symposium*

10:30 - 12:00

Hall N1

**Optimizing pre-clinical testing pipelines: integrating animal-free methods, animal models, and comparative immunology (VIC)***Chair:* Alejandra Capozzo (Argentina)*Chair:* Jorge Galindo-Villegas (Bodø, Norway)**Breaking barriers: human 3D airway models for precision testing of antiviral defences**

10:30 - 10:50

*Symposium Speaker:* Doris Wilflingseder (Austria)**Integrating the pig in a pre-clinical vaccine development pipeline**

10:50 - 11:10

*Symposium Speaker:* Tobias Käser (Austria)**Immunological processes involved in melanoma regression in the MeLiM pig model**

11:10 - 11:30

*Symposium Speaker:* Giorgia Egidy (France)**Characterisation of cryptic immune defects in cattle as models for translational immunology research**

11:30 - 11:50

*Symposium Speaker:* Gilles Foucras (France)*Symposium*

10:30 - 12:00

Hall N2

**Monocytes and macrophages in health and disease***Chair:* Helen Goodridge (Los Angeles, United States)*Chair:* Rudranil Hazra (Cape Town, South Africa)**Dichotomy of monocyte origins**

10:30 - 10:55

*Symposium Speaker:* Helen Goodridge (United States)**Macrophage development**

10:55 - 11:20

*Symposium Speaker:* Wolfgang Weninger (Austria)**Hallmarks of inflammation and a new regulatory pathway of mononuclear phagocyte function**

11:20 - 11:45

*Symposium Speaker:* Alberto Mantovani (Italy)**Panel discussion**

11:45 - 12:00

*Keynote Lecture*  
12:30 - 13:00

Hall E

**From allergen molecules to diagnosis, treatment and prevention of allergy**  
Chair: Guillermo Docena (Argentina)

**From allergen molecules to diagnosis, treatment and prevention of allergy**

12:30 - 13:00

Keynote Speaker: Rudolf Valenta (Austria)

*Rising Star*  
13:00 - 13:45

Hall E

**Rising stars**

Chair: Akiko Iwasaki (United States)

**Specificity maturation defines germinal centre B cell transcriptional diversity**

13:00 - 13:10

Rising Star Awardee: Deborah Burnett (Australia)

**Tissue immunity: the role of inflammatory imprinting on host responses to respiratory infection**

13:10 - 13:20

Rising Star Awardee: Kerry Hilligan (New Zealand)

**Cytokine-Driven Pathogenesis to Antiviral Discovery: Tackling Emerging and Re-Emerging Viral Infections**

13:20 - 13:30

Rising Star Awardee: Srikanth Sadhu (India)

**Discussion**

13:30 - 13:45

*Keynote Lecture*  
13:45 - 14:15

Hall E

**Immunology of post-acute infection syndromes**  
Chair: Rita Carsetti (Italy)

**Immunology of post-acute infection syndromes**

13:45 - 14:15

Keynote Speaker: Akiko Iwasaki (United States)

*Special Lecture*  
14:30 - 15:00

Hall E

**Closing talk**

Chair: Rita Carsetti (Italy)

**Immune Checkpoint Blockade in Cancer Immunotherapy: Mechanistic insights provide new therapeutic opportunities**

14:30 - 15:00

Plenary Speaker: James P. Allison (United States)

*Ceremony*  
15:00 - 15:30

Hall E

**Closing and Welcome IUIS 2028**

Speaker: Rudolf Valenta (Vienna, Austria)

Speaker: Wilfried Ellmeier (Austria)

Speaker: Barbara Bohle (Austria)

Speaker: Juan Carlos (JC) Zúñiga-Pflücker (Canada)

Speaker: Rita Carsetti (Italy)

Speaker: Miriam Merad (United States)