

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

DGFf General Members' Assembly*Networking Event*

18:30 - 20:00

Hall G

DGFf 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

Oral Abstract 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

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

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)

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

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:* Maria 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)

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

Discussion	09:50 - 10:00
<i>Break</i> 10:00 - 10:30	Exhibition Hall
Coffee Break (Exhibition Hall)	
<i>Abstract Session</i> 10:30 - 12:00	Hall A
Regulation of T cell function	
<i>Chair:</i> Nicole Boucheron (Austria) <i>Chair:</i> Johanna Strobl (Austria)	
Histone deacetylases 1 and 2-mediated control of intestinal CD4+ T cell immunity during bacterial infection	10:30 - 10:38
<i>Oral Abstract Presenter:</i> 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
<i>Oral Abstract Presenter:</i> Beatriz Chaves (France)	
Bystander Th17 immunity and its functional impact on fungal infections	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Shweta Venugopal Sabu (Switzerland)	
Pro-inflammatory secretome from intestinal epithelium recruits regulatory T cells for barrier defence	10:54 - 11:02
<i>Oral Abstract Presenter:</i> 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
<i>Oral Abstract Presenter:</i> Jeremy Chase Crawford (United States)	
Immune dysregulation in Large Vessel Vasculitis: the emerging role of VISTA and ICOSL	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Martina Bonacini (Italy)	
CD8⁺ γδ T Cells Drive Inflammatory and Cytotoxic Responses in Chronic Chagas Cardiomyopathy and Are Modulated by Pentoxifylline	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Pedro Lucinda (Brazil)	
The Impact of Disrupting the BTNL- γδ T cell Axis, with implications for Crohn's Disease	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Ambra Natalini (United Kingdom)	
Dissecting MAIT Antigen 5-OP-RU Genesis from Mammalian Small Molecules	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Rangsim Pongvattanaporn (Australia)	
<i>Abstract Session</i> 10:30 - 12:00	Hall E1
Cancer immunotherapy part I	
<i>Chair:</i> Lee-Hwa Tai (Sherbrooke, Canada) <i>Chair:</i> Dietmar Herndler-Brandstetter (Vienna, Austria)	
Siglec-1/CD169+ macrophages orchestrate immune reaction and matrix deposition in pancreatic cancer	10:30 - 10:38
<i>Oral Abstract Presenter:</i> 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 β -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-TGFβ1 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)

Cancer β-TrCP drives CD8⁺ T cell exhaustion in human non-small-cell lung cancer	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Sidong Xiong (China)	
Mitochondrial Transfer in Oral Cancer impairs CD4⁺ T cell responses by promoting cell exhaustion via hypoxic stress	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Estefania Nova-Lamperti (Chile)	
Commandeering T cell fates and adoptive T cell therapeutic outcomes in solid tumors using cytokines and de novo engineered mimetics	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Vandana Kalia (United States)	
The eATP receptor P2RX7 promotes optimal progenitor exhausted CD8⁺ T cell responses to anti-PD1 blockade	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Henrique Borges da Silva (United States)	
KLF2 maintains lineage fidelity and suppresses CD8 T cell exhaustion	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Nikhil Joshi (United States)	
Fueling Immune Checkpoint Therapy with Asparaginase to Boost T Cell Activation in Nasopharyngeal Carcinoma	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Huang-Yu Yang (Taiwan)	
Overexpressing hepcidin in T lymphocytes: a new weapon to fight cancer?	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Manel Beldjilali (France)	
<i>Abstract Session</i> 10:30 - 12:00	Hall N
Innate immunity	
<i>Chair:</i> Sylvia Knapp (Vienna, Austria)	
<i>Chair:</i> Anirban Sengupta (Stockholm County, Sweden)	
Novel gatekeeper in post-septic immune responses: myeloid-derived suppressor cells (MDSCs)	10:30 - 10:38
<i>Oral Abstract Presenter:</i> Rawan Kawach (Germany)	
UFMylation of NLRP3 Prevents Its Autophagic Degradation and Facilitates Inflammasome Activation	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Kun Chen (China)	
The BiST of Burden: harnessing biased STING agonists to enhance the resolution of inflammation and limit tissue fibrosis	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Amiram Ariel (Israel)	
Histone demethylase KDM4B epigenetically controls NLRP3 expression to enhance inflammatory responses	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Ying Qin (China)	
Clustering of NLRP3 on diverse cellular scaffolds is a key step toward inflammasome formation	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Iva Hafner Bratkovič (Slovenia)	
LRK2 regulates the formation of neutrophil extracellular traps against <i>Candida albicans</i> in mucosal infection	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Kai-Quan Leong (Taiwan)	
Mechanical reprogramming of neutrophils sustains pulmonary homeostasis	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Jin Wang (China)	
Pyrin inflammasome activation leads to an IL-18-driven IFN-γ response, in a mevalonate kinase deficiency model	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)

HIF2 α 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)

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

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 β 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 α /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- λ over IFN- β 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 Serebrovskaia (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 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- α 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 ϵ 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**

- 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.188 Decoding innate immune signatures in oral tumor microenvironment

Poster Presenter: Subrata Sen (India)

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

Poster Presenter: Kou Hioki (Netherlands)

I.190 β_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⁺ 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- κ 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⁺ 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⁺ 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)

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

Poster Presenter: Emilia Schneider Revueletas (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⁺ 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 Elmzahi (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⁺PD-1⁺ 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- γ 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 Holcman (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 Önlü (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⁺ 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 1st 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 Abdool (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⁺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**

- 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 *Psm8* in T cells induces rapid cell death dependent of TCR engagement**

Poster Presenter: Erkhembayar 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 $\gamma\delta$ 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 Kisielek (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: Elopy 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: Ilmar Muftakhutdinov (Russian Federation)

I.078 **Increased frequency of Tph and Tfh 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-schock 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 Tfh13-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**

- 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: Minkyong 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 1 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: Mariia 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-induced 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 α 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 dispensible 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^{2+} 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 Bufeewa (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 $\text{A}_{2\text{A}}\text{R}/\text{A}_{2\text{B}}\text{R}$ and TGF- β production**

Poster Presenter: Martha Cecilia Moreno-Lafont (Mexico)

I.144 **β 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- β -ionone from *Moringa oleifera* leaves in triple-negative breast cancer: apoptosis induction and EMT inhibition through TGF- β /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 Rodríguez 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⁺CD8⁺ 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⁺ 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⁺ 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⁺ 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**

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

- 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⁺ 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⁺ 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 & 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

(Canceled) 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)**Immunoception: 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 β 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 & 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 Iannacone (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)

Immunes dysregulation 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. Oskeritzian (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: Viktoriia 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)

Chronic nasal neutrophilic inflammation in adults living with HIV on suppressive antiretroviral therapy	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Joseph Aston Phiri (Malawi)	
Discovery of neutralising antibodies against hantaviruses and their cognate epitopes to inform vaccine design	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Simon Kimuda (United Kingdom)	
<i>Abstract Session</i>	
10:30 - 12:00	Hall F1
Autoimmune diseases part I	
<i>Chair:</i> Michael Bonelli (Austria)	
<i>Chair:</i> Fatma Betul Oktelik (Boston, Turkey)	
<i>Chair:</i> Günter Steiner (Austria)	
Therapeutic modulation of endoplasmic reticulum amino peptidase 1 (ERAP1) in cancer and autoimmunity	10:30 - 10:38
<i>Oral Abstract Presenter:</i> Samantha Bucktrout (United Kingdom)	
Targeted neutrophil extracellular trap (NETs) inhibition with a nuclear penetrating antibody reduces inflammation and kidney damage in autoimmune vasculitis	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Kim Maree O'Sullivan (Australia)	
Crosstalk between NK cells and macrophages in Pemphigus Vulgaris: implications for therapeutic strategies	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Vishakha Hooda (India)	
An integrative immunoinformatics analysis uncovers infectious pathogen and gut microbiome-driven molecular mimicry in Autoimmune Hemolytic Anemia	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Pratyusha Patidar (India)	
Exploring potential of anti-hyperglycemic benefits of BCG vaccine in streptozotocin induced diabetic animal models	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Sunil Korde (India)	
Multi-OMICs based biomarkers for Autoimmune Hemolytic Anaemia and Immune Thrombocytopenia Autoimmune Diseases	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Tulika Prakash Srivastava (India)	
Presence of HLA B27 affects monocyte function in ERA category of Juvenile Idiopathic Arthritis	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Shivika Guleria (India)	
Enhancer RNA m⁶A modification controls SIRPα signaling strength in intestinal macrophages to ensure adequate efferocytosis for inflammation resolution	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Qingqing Wang (China)	
TLR7-9 adaptors TASL and TASL2 mediate IRF5-dependent antiviral responses and autoimmunity	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Manuele Rebsamen (Switzerland)	
Therapeutic modulation of myocardial neutrophil polarization prevents cardiomyocyte damage and improves cardiac function in autoimmune myocarditis	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Alexandru Schiopu (Sweden)	
Modulation of membrane complement regulatory proteins (mCregs) decay accelerating factor (mDAF) and membrane cofactor protein(mMCP) by cytokines in Rheumatoid arthritis	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 Gattinger (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⁺ 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⁺ 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 Ferreirinha (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- β

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 Mlynska (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⁺CD25⁺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)

Donor-specific IgE can amplify allospecific responses through its low affinity receptor CD23	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Anna Marianne Weijler (Austria)	
A B-cell cross-road between systemic and upper respiratory tract immunity	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Eva Piano Mortari (Italy)	
The ICOM discovery supports the dissociation activation model (DAM) of B cell activation	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Michael Reth (Germany)	
Liver-associated tertiary lymphoid structures support CD4 T cell-dependent B cell immunity in a mouse model of HBV pathogenesis	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Cristian G Beccaria (Italy)	
Multi-step antibody class switching in a primary human response is restricted after <i>IGHG2</i> and dependent on B cell maturation stage	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Joseph Ng (United Kingdom)	
Asparagine availability controls germinal center B cell homeostasis	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Yavuz F. Yazicioglu (United Kingdom)	
Anti-viral and anti-commensal antibody repertoires differ across human tissues	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Tomer Hertz (Israel)	
Clonal lineage tree analysis in surrogate light chain deficient mice reveals the existence of memory B cells in the mouse splenic marginal zone	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Ola Grimsholm (Austria)	
Immunological memory in a teleost fish: common carp IgM⁺ B cells differentiate into memory and plasma cells	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Justin Tze Ho Chan (Austria)	
Polyreactive IgA's pattern recognition selectively inhibits the folate cycle of pathogenic bacteria	11:50 - 11:58
<i>Oral Abstract Presenter:</i> Genta Furuya (Japan)	
<i>Poster Walk</i> 12:15 - 13:45	Poster Area
Primary and secondary immunodeficiency	
<i>Chair:</i> Elisabeth Förster-Waldl (Austria)	
<i>Chair:</i> Imen Ben-Mustapha (Tunisia)	
II.456	Finding NEMO's special role in Inborn Errors of Immunity
<i>Poster Presenter:</i> Sara Fernández Hermira (Netherlands)	
II.457	Pregnancy in patients with common variable immunodeficiency
<i>Poster Presenter:</i> Ozgur Kartal (Turkey)	
II.458	IFIH1 mutation in a case of primary immunodeficiency presenting with EBV-related lymphoproliferation and GLILD: Singleton-Merten Syndrome
<i>Poster Presenter:</i> Ceyda Tunakan Dalgıç (Turkey)	
II.460	Evaluation of a rapid screening test for IgG deficiency in primary immunodeficient patients
<i>Poster Presenter:</i> Najla Mekki (Tunisia)	
II.461	Phenotypic and functional characteristics of a novel IRF8 variant
<i>Poster Presenter:</i> 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:* Pınar 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 β -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****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+ γ 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-Owsiak (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 **TGFb 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 **Soraphen A 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 Limjunyawong (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- α 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- α 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- κ 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.222 **Identification of biomarkers associated with post-discharge mortality in severely malnourished children from plasma extracellular vesicles**

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 Aydinler (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

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: Katherina 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 β 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 Elisyutina (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 Rohnner (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.027 **Role of B cells in presenting protein antigen to CD8T cells**
- 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* BCG/BCG1419c, 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 Chrun (France)

Poster Walk
 12:15 - 13:45

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)

Poster Area

- II.236 **FcRγ-Card9 signaling activated by GM-CSF facilitates the differentiation of bone marrow-derived macrophages induced by GM-CSF**
- II.237 **The role of IFN-α and IFN-β 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: Zekethelo 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: Anthi Psoma (Netherlands)
- II.246 **Mechanisms Underlying Regulation of Intestinal Epithelial Cell Homeostasis Upon Sepsis**
Poster Presenter: Xiao-Di Tan (United States)
- II.248 **The role of cytokines in children with cholestatic syndrome**
Poster Presenter: Shakar Navruzova (Uzbekistan)

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.317 **Single-cell sequencing of wound-infiltrating immune cells to unravel immunosuppressive mechanisms of rabies virus**
- 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 Thanabalasuriar (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 IFN α 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**

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 β 56H/57S polymorphisms contribute to the pathogenesis of rheumatoid arthritis**

Poster Presenter: Yu-Hsuan Liu (Taiwan)

II.089 **CD8⁺ 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⁺ T cell-related inhibitory molecules in Behçet'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 Pajoochian (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: Maaïke 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⁺ 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: Andrea Alexandru (Romania)
- II.065 **Interferon- α promotes HLA-B-restricted presentation of conventional and alternative antigens in human pancreatic β -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 α autoantibodies in the population: links to demographic, clinical, and genetic factors**
Poster Presenter: Martti Vanker (Estonia)
- II.069 **Are anti-SSA antibodies potentially pathogenic in patients suffering from glomerulonephritis?**
- 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⁺ 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⁺ 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 α signaling pathway**

Poster Presenter: Natsuki Ide (Japan)

- II.417 **The effect of Aptamin C on NK cell activity and cytotoxicity *in vivo* and *in vitro*: a comparison study with the effect of vitamin C**

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 β**

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 HIF1 α 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.352 **Assessment of the nutritional status of children aged 6 to 59**

months from transhumant households in the Linguère health district**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: Sunkyoung 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 Ogulur (Switzerland)

II.363 Monosodium glutamate affects inflammation, cellular stress, protein folding defect, mitochondrial dysfunction and cell death in intestinal epithelial cells

Poster Presenter: Ismail Ogulur (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 Ogulur (Switzerland)

II.370 Circulating inflammatory responses to air pollution exposure

Poster Presenter: Ismail Ogulur (Switzerland)

II.371 **Single-cell analysis of female ME/CFS patients identifies immune dysregulations linked to chronic peripheral activation**

Oral Abstract 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 m⁶A 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- κ B 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 δ : 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- α 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- γ -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
 12:15 - 13:45

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.439 **Dexamethasone and IFN- γ preconditioned cell-free secretome ameliorate autoimmunity in Systemic Lupus Erythematosus by inhibiting NETosis**
Poster Presenter: Geeta Rai (India)
- 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 Mlynska (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.448 **The co-administration of azithromycin and extracellular vesicles derived from mesenchymal stem cells (MSC-EVs) improves immunological, clinical, and histopathological scores of septic mice**
- II.449 **Lyve1⁺ 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: Emilija Marinkovic (Germany)

- II.175 **Tailoring β -Ag₂MoO₄ 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 α 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⁺HLA-DR⁺CD45RC⁻ 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⁺ 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⁺ 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-Reifeltshammer (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:* Mariia 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 (MUFAs) 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_c gamma receptors (F_cγRs) 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: Mariia 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- γ 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⁺ 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 **PGE₂ 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 cells to intratumoral endothelial senescence**

Poster Presenter: Julissa Gonzalez Gonzalez (Mexico)

- II.203 **GM-CSF-producing ROR γ t ILC3 accumulated in human CRC and correlated with tertiary lymphoid structure-associated cell types**

- II.207 **Identification of the mimotope/B cell peptide of lemparlimab - one step closer toward vaccination-based immunotherapy against CD47 overexpressing tumors**

Poster Presenter: Joshua Tobias (Austria)

- II.208 **Tumor-derived exosomes enriched by miRNA-211a promote anti-tumor immune response in B16F10 tumor-bearing mice**

- II.209 **Rejuvenating exhausted tumor-infiltrating T cells by bispecific DC-T cell engager**

Poster Presenter: Xuhao Zhang (China)

- II.212 **Immunoregulatory roles of DANCER 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 Nikolich (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**

- II.273 **Alterations in bacterial sensing drive immune ageing**

Poster Presenter: Martin Lukačičin (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- γ 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: Juliane 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 Khaitov (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**

Oral Abstract 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 α) 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 Mcglennon (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)

A 10 year building block: a 10 year history of teaching immunology in LMICs

13:45 - 14:05

Symposium Speaker: Mehrnaz Mesdaghi (Iran)

Symposium Speaker: Sawsan Feki (Tunisia)

Symposium Speaker: Yanet Valdez Tejeira (Canada)

Online Pre-Course Learning

14:05 - 14:15

Symposium Speaker: Roslyn Kemp (New Zealand)

Symposium Speaker: Tracey Lamb (United States)

Regional Focus: Specific learning priorities, learning programs, and challenges faced by each region will be discussed.

14:15 - 14:35

Symposium Speaker: Guillermo Docena (Argentina)

Symposium Speaker: Tineke Cantaert (Cambodia)

Symposium Speaker: Tomabu Adjobimey (Benin)

Dialogue for the future and opening new approaches

14:35 - 15:15

Symposium Speaker: Sawsan Feki (Tunisia)

Symposium Speaker: Tomabu Adjobimey (Benin)

Symposium
13:45 - 15:15

Hall F1

Respiratory immunology

Chair: Hans-Uwe Simon (Switzerland)

Chair: Wuji Zhang (China)

Harnessing barrier to prevent hypersensitivity diseases

13:45 - 14:10

Symposium Speaker: Cezmi Akdis (Switzerland)

Bronchial Asthma - from mechanism to therapy

14:10 - 14:35

Symposium Speaker: Harald Renz (Germany)

Eosinophils and disease

14:35 - 15:00

Symposium Speaker: Hans-Uwe Simon (Switzerland)

Panel discussion

15:00 - 15:15

Symposium
13:45 - 15:15

Hall F2

Regulation of central and peripheral tolerance

Chair: Claudia A. Rivera Cifuentes (Bethesda, United States)

Chair: Nicole Joller (Switzerland)

The co-inhibitory receptor TIGIT promotes tissue protection and repair

13:45 - 14:10

Symposium Speaker: Nicole Joller (Switzerland)

Determinants of central T cell tolerance

14:10 - 14:35

Symposium Speaker: Ludger Klein (Germany)

Regulatory B cells in autoimmunity

14:35 - 15:00

Symposium Speaker: Claudia Mauri (United Kingdom)

Panel discussion

15:00 - 15:15

Symposium
13:45 - 15:15

Hall M

Visualizing immunity (American Association of Immunologists - AAI)

Chair: Ulrich H. von Andrian (United States)

Far from home: T cell migration through non-lymphoid organs

13:45 - 14:10

Society Symposium Speaker: Susan Schwab (United States)

Imaging antibody affinity maturation

14:10 - 14:35

Society Symposium Speaker: Gabriel Victora (United States)

Tissue-specific immune regulation within the upper airway

14:35 - 15:00

Society Symposium Speaker: Ashley Moseman (United States)

Symposium
13:45 - 15:15

Hall N

Immunity mediated by innate lymphocytes (EFIS)

Chair: Gunnur Deniz (Istanbul, Turkey)

Chair: Bojan Polić (Croatia)

Mechanisms of NK cell clonality

13:45 - 14:10

Society Symposium Speaker: Chiara Romagnani (Germany)

New insights on the activation and regulation of gamma-delta T cells

14:10 - 14:35

Society Symposium Speaker: Bruno Silva-Santos (Portugal)

Human innate lymphoid cells in colon inflammation and tumors

14:35 - 15:00

Society Symposium Speaker: Jenny Mjösberg (Sweden)

Symposium
13:45 - 15:15

Hall L1 & L2

The IUIS Junior Community: perspectives from driving immunological research across the globe (ECC)

Chair: Lee-Hwa Tai (Sherbrooke, Canada)

Chair: Adeleye Adeshakin (Memphis, United States)

Welcome address and introduction to the IUIS Junior Community

13:45 - 13:50

From exploring the immunometabolism of tuberculosis to unraveling factors influencing research assessment

13:50 - 14:15

Symposium Speaker: Luciana Balboa (Argentina)

Mechanisms of immune-mediated radiotherapy resistance in squamous cell carcinomas

14:15 - 14:40

Symposium Speaker: Ayman Oweida (Canada)

Immune and metabolic effects of African heritage diets versus Western diets in men: a randomized controlled trial	14:40 - 14:50
<i>Oral Abstract Presenter:</i> Tal Pecht (Germany)	
TIF1γ regulates stability of regulatory T cells during inflammation	14:50 - 15:00
<i>Oral Abstract Presenter:</i> Eugenio Contreras Castillo (Mexico)	
Insulin signalling regulates B cell function and metabolism	15:00 - 15:10
<i>Oral Abstract Presenter:</i> Sue Tsai (Canada)	
Public vote for best talk	15:10 - 15:15
 <i>Symposium</i> 13:45 - 15:15	 Hall L3
Sex and Gender and Immunology (GEC)	
<i>Chair:</i> Sylvia Knapp (Vienna, Austria)	
<i>Chair:</i> Roslyn Kemp (New Zealand)	
Sensitive periods in brain development determined by the immune system: relevance to sex differences	13:45 - 14:15
<i>Symposium Speaker:</i> Anna Maximova (United States)	
Global perspectives to enhance strategies for advancing women in healthcare and STEMM leadership	14:15 - 14:45
<i>Symposium Speaker:</i> Roslyn Kemp (New Zealand)	
 <i>Break</i> 15:15 - 15:45	 Exhibition Hall
Coffee Break (Exhibition Hall)	
 <i>Keynote Lecture</i> 15:45 - 16:15	 Hall A
Specificity, reactivity, and adaptive immunity	
<i>Chair:</i> Caetano Reis e Sousa (United Kingdom)	
Specificity, reactivity, and adaptive immunity	15:45 - 16:15
<i>Keynote Speaker:</i> Ruslan Medzhitov (United States)	
 <i>Rising Star</i> 16:15 - 17:00	 Hall A
Rising stars	
<i>Chair:</i> Laurence Zitvogel (France)	
Macrophages in tumors, not always the bad guys	16:15 - 16:25
<i>Rising Star Awardee:</i> Rodrigo Nalio Ramos (Brazil)	
Unveiling dendritic cell subsets in humans: new molecular mechanisms for enhancing tumor immunity	16:25 - 16:35
<i>Rising Star Awardee:</i> Akira Takeda (Finland)	
Can a B cell eat a parasite?	16:35 - 16:45
<i>Rising Star Awardee:</i> Xin (Andy) Gao (Australia)	
Discussion	16:45 - 17:00
 <i>Keynote Lecture</i> 17:00 - 17:30	 Hall A
Metabolic mechanisms governing the impact of the gut microbiota in cancer immunosurveillance	
<i>Chair:</i> Abdallah Badou (Morocco)	

**Metabolic mechanisms governing the impact of the gut microbiota
in cancer immunosurveillance**

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 Carsetti (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 Carsetti (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 SARSCoV2

08:30 - 08:55

Symposium Speaker: Juliana Cassataro (Argentina)

siRNA-based treatment for COVID-19

08:55 - 09:20

Symposium Speaker: Musa Khaitov (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 & 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 γ -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)

Novel Fluorescent Dyes - Expanding the Spectrum of Flow Cytometry Solutions. A tale of optimization of a 39-color Immune Checkpoint Panel	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Stella Autenrieth (Germany)	
Immunoexpression, genetic, and epigenetic alterations of the PTEN gene in chronic myeloid leukemia: insights from the Indian population	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Asgar Ali (India)	
Moderating Regulatory T Cell Brakes in CAR T Cell Immunotherapy of Solid Tumors Through the CD4-CD28 Co-stimulation Axis	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Surojit Sarkar (United States)	
Regnase-1 KO B7-H3 CAR T cells for osteosarcoma: improved antitumor activity and potency to impact endogenous immune cells	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Adeleye Adeshakin (United States)	
mRNA-based engineering for flexible 'off-the-shelf' allogeneic T cell therapy	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Shan He (Singapore)	
CTLA4-CD28 chimera potentiates CAR-T cells via CD80/86 on both T and B cells	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Seoho Lee (Korea, Republic of)	
Microbiome-derived postbiotics integrate into CAR T cell metabolism and augment anti-tumor immunity	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Maik Luu (Germany)	
Progressive accumulation of circulating CD27⁺CD28⁺ effector/memory CD8⁺ T cells in lung cancer patients blunts responses to immune checkpoint inhibitor therapy	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Sung-Woo Lee (Korea, Republic of)	
Armored anti-macrophage CAR T cells remodel the tumor microenvironment and control metastatic ovarian and lung tumor growth	11:50 - 11:58
<i>Oral Abstract Presenter:</i> Jaime Mateus-Tique (United States)	
<i>Abstract Session</i>	
10:30 - 12:00	Hall E1
Autoimmune diseases part II	
<i>Chair:</i> Georg Stary (Austria)	
<i>Chair:</i> Teresa Preglej (Vienna, Austria)	
Targeting the catalytic activity of HDAC1 in T-cells protects mice against experimental autoimmune encephalomyelitis	10:30 - 10:38
<i>Oral Abstract Presenter:</i> Osamah Al-Rubaye (Austria)	
C1q-Mimicking scFv Fragment binding anti-C1q autoantibodies has disease-progression effect in MRL/lpr Mouse Model of Systemic Lupus Erythematosus	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Andrey Tchorbanov (Bulgaria)	
Spatial immune network of clonal CXCL13⁺CD4⁺ T cells and Tregs within tertiary lymphoid structures in chronic pemphigus blisters	10:46 - 10:54
<i>Oral Abstract Presenter:</i> A Yeong Lee (Korea, Republic of)	
Distribution of T peripheral helper (TPH), circulating T follicular helper (cTFH), and atypical memory B lymphocytes (CXCR5-CD11c⁺) in patients with Sjogren's disease (SjD)	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Victor Manuel Menchaca Tapia (Mexico)	
Iron deprivation counteracts systemic autoimmune inflammation	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⁺ 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 NFκB 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⁺ 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 immunoadsorption 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 M1₅₈₋₆₆ 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 & 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⁺ 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

Harnessing chimeric antigen receptor ILC2s in cell therapies

11:10 - 11:18

Oral Abstract Presenter: Siavash Mashhour (Canada)

ILC3s modulate intestinal immune-epithelial interactions via TGF- β 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)

Pathogenic variants in mitochondrial genes DHODH and UMPS

11:02 - 11:10

segregating with Chagas disease cardiomyopathy patients increase cardiomyocytes susceptibility to IFN-γ and TNF-α-induced mitochondrial dysfunction		
<i>Oral Abstract Presenter:</i> João Paulo Silva Nunes (Brazil)		
Shifting the Paradigm: Low Affinity CD8+ T Cells Drive Disease in <i>Plasmodium</i> infection	11:10 - 11:18	
<i>Oral Abstract Presenter:</i> Douglas Cornwall (United States)		
Targets of CSP-based Malaria vaccines: what we missed in 1987 and what is missing now	11:18 - 11:26	
<i>Oral Abstract Presenter:</i> Franklin Yengdem Nuokpem (Ghana)		
Regulation of parasite virulence by extracellular vesicles during malaria infections	11:26 - 11:34	
<i>Oral Abstract Presenter:</i> Pierre-Yves Mantel (Switzerland)		
Efficacy of a Chimeric Trivalent Antigen Treated with N-Acetyl Cysteine as Vaccine Candidate against <i>Trypanosoma cruzi</i> Infection	11:34 - 11:42	
<i>Oral Abstract Presenter:</i> Emilio Malchiodi (Argentina)		
<i>Upon Invitation</i>		
12:00 - 13:00	Room 0.31-32	
New Council Meeting (Introductory meeting) - Upon Invitation		
<i>Poster Walk</i>		
12:15 - 13:45	Poster Area	
Animal models and veterinary immunology		
<i>Chair:</i> Alejandra Capozzo (Argentina)		
<i>Chair:</i> Giorgia Egidy (France)		
III.078	Automated tissue processing for versatile sample preparation	
<i>Poster Presenter:</i> Grace F.T. Poon (Canada)		
III.079	Actinomycetoma by <i>Nocardia brasiliensis</i> is modulated by DMS-DA6 peptide in BALB/c mice	
<i>Poster Presenter:</i> Anna Velia Vázquez Marmolejo (Mexico)		
III.080	Anti-inflammatory/immunomodulatory effects of vitamin K2 in collagen-induced arthritis in rats	
<i>Poster Presenter:</i> Biljana Bufan (Serbia)		
III.081	Optimization of a rabbit T cell flow cytometry assay for future vaccine immunogenicity studies	
<i>Poster Presenter:</i> Emily N. Tangie (South Africa)		
III.083	TCR transgenic clone selection guided by immune receptor analysis and single cell RNA expression of polyclonal responders	
<i>Poster Presenter:</i> Nincy Debeuf (Belgium)		
III.085	Characterization of human lung immune cells in the humanized BRGSF mouse model	
<i>Poster Presenter:</i> Anna V. Curioni (France)		
III.086	Characterization and comparative analysis of cancer xenografts in humanized mice	
<i>Poster Presenter:</i> Stephanie Stahnke (Germany)		
III.087	A new humanized mouse model for investigating autoimmune disease	
<i>Poster Presenter:</i> Judith Greer (Australia)		
III.088	The development of immunoglobulin gene reference for Arabian 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 Żebrowska (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^{lo} 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⁺ 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⁺ 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

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 *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 Dobbstein (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

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 Lenartić (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⁺ and CD8⁺ 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 Sary (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 β 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 Hurdal (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

Immunodiagnostics

Chair: Klaus Schmetterer (Austria)

Chair: Yanet 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 Panachamng (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 Nkinda (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 Schleder (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 Niedźwiedzka-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: Alexsander 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⁺ 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- β -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 PvMSP1₁₉ 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 α 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 γ 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.179 **Molecular interactions of Anti-Cancer Drugs with UL7 Protein, Small Capsid Protein, and US8A Protein of Equine Herpesvirus-1 as a potential candidate of Oncolytic Virotherapy**

- 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**

- 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 through 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- β -cyclodextrins alter visceral fat in the murine ApoE^{-/-} model of atherosclerosis**

Poster Presenter: Christabel Mennicken (Germany)

- III.223 **CCR1-dependent recruitment and fibrogenic role of CD16⁺ 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**

- 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: Ashi 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⁺ 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⁺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 immunobiologicals 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 $\alpha 4 \beta 7$ 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 $\gamma\delta$ T 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⁺IgD⁺ 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: Ümmügülsüm 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^{bright} 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 Bjerkkan (Norway)

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 β 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)

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 Pocałun (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**

Oral Abstract Presenter: Nisreen Ghanem (Germany)

- III.499 **Histone deacetylase 1 as a regulator of CD4⁺ T cell maintenance in skin autoimmunity**

Poster Presenter: Maria Stigler (Austria)

- III.500 **A psoriasis-like CD4⁺ 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 **Berberamine: 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⁺ T cell responses to conserved SARS-CoV-2 peptides are promising for improving vaccination and therapeutic strategies**
Poster Presenter: Mahsa Rafieiyan (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 **DART²OS: devising advanced TCR-T-cells to eradicate osteosarcoma**

Poster Presenter: Nataliia 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⁺ 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 FcεRIα and FcεRII**

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, IgG₁, and IgG₄ 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 FcεRI 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 Scandiuizzi (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⁺ 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 α 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 β -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 RORgt 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_e vaccine in a targeted endemic population in Malawi post COVID-19 pandemic**

Poster Presenter: Themvikile 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 Tjærnhage (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- γ dichotomy in MASLD compromises the immune response to mCMV infection***Poster Presenter:* Karlo Mladenčić (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 Adebisi (South Africa)*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/Cbfbregulates development and function of Ror γ ⁺ Thetis cells that drive differentiation of Ror γ ⁺ 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 & 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 & 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)**Inflationary 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_{RM}) 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 & 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	
<i>Oral Abstract Presenter:</i> Zhutian Zeng (China)	
Epithelial cells provide immunocompetence for bacterial clearance before leukocyte development	09:50 - 10:00
<i>Oral Abstract Presenter:</i> Esteban Hoijman (Spain)	
<i>Break</i>	
10:00 - 10:30	Exhibition Hall
Coffee Break (Entrance Hall)	
<i>Symposium</i>	
10:30 - 12:00	Hall E
Immunity across all ages	
<i>Chair:</i> Janko Nikolich (United States)	
<i>Chair:</i> Eya Ben Salah (Lausanne, Switzerland)	
Ageing and the response to vaccination	10:30 - 10:55
<i>Symposium Speaker:</i> 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
<i>Symposium Speaker:</i> Janko Nikolich (United States)	
T cells, aging and vaccination	11:20 - 11:45
<i>Symposium Speaker:</i> Birgit Weinberger (Austria)	
Panel discussion	11:45 - 12:00
<i>Symposium</i>	
10:30 - 12:00	Hall F1
Stromal interactions in immunity and tissue repair (CSI)	
<i>Chair:</i> Matthew Buechler (Canada)	
Lymph node stromal remodeling compromises host immune defense to infection during skin inflammation	10:30 - 10:50
<i>Society Symposium Speaker:</i> Shan Liao (Canada)	
A type 1 immune-stromal cell network mediates disease tolerance against intestinal infection	10:50 - 11:10
<i>Society Symposium Speaker:</i> Susan Westfall (Canada)	
Fibroblast-macrophage interactions in health and disease	11:10 - 11:30
<i>Society Symposium Speaker:</i> Matthew Buechler (Canada)	
TAK1, a key regulator in stromal inflammatory response	11:30 - 11:50
<i>Society Symposium Speaker:</i> Marine Theret (Canada)	
<i>Symposium</i>	
10:30 - 12:00	Hall F2
Clinical Immunology Committee symposium (CIC)	
<i>Chair:</i> Pierre Miossec (Lyon, France)	
Introduction	10:30 - 10:35
<i>Symposium Speaker:</i> Pierre Miossec (France)	
Update on targeting the most effective adoptive immune cell therapies	10:35 - 10:55
<i>Symposium Speaker:</i> 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 (ITH)

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 Guillems (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 Guillems (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)