

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 - 17:30

Hall G

DGfI Satellite Symposium: Highlights of German Immunology**Introduction**

13:00 - 13:15

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**

13:55 - 14:15

Speaker: Adelheid Cerwenka (Germany)**Local players in immunity: Differentiation, functions and tissue-**

niches of innate and adaptive resident lymphocytes	14:15 - 14:35
<i>Speaker:</i> Georg Gasteiger (Germany)	
Inborn errors of innate immunity	14:35 - 14:55
<i>Speaker:</i> Fabian Hauck (Germany)	
Break	14:55 - 15:30
Mechanisms regulating dendritic cell function in tumors	15:30 - 15:50
<i>Speaker:</i> Jan Böttcher (Germany)	
Metabolic checkpoints controlling onset and resolution of inflammation	15:50 - 16:10
<i>Speaker:</i> Gerhard Krönke (Germany)	
Breakthrough immunotherapies: Clinical experience and molecular mechanisms	16:10 - 16:30
<i>Speaker:</i> Ricardo Grieshaber-Bouyer (Germany)	
cROSSing barriers: Metabolism meets T cell function	16:30 - 16:50
<i>Speaker:</i> Dirk Brenner (Luxembourg)	
Beneficial T cell - glial interactions in CNS inflammation	16:50 - 17:10
<i>Speaker:</i> Stefan Bittner (Germany)	
Sleep and the immune system	17:10 - 17:30
<i>Speaker:</i> Luciana Besedovsky (Germany)	
 <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 Turkiye	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

Speaker: Edda Fiebiger (United States)

When fields converge: hematology, cell therapy, and immunology in the age of CAR-T

14:15 - 14:40

Speaker: Antonia Müller (Austria)

Novel immunometabolic targets to modulate human T cell-mediated inflammation

14:40 - 15:05

Speaker: Stefano Angiari (Austria)

Immune players in atherosclerotic cardiovascular disease

15:05 - 15:20

Speaker: Florentina Porsch (Austria)

Crosstalk between CD8⁺ T cells and systemic bile acid metabolism controls LCMV-induced immunopathology

15:20 - 15:35

Speaker: 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 (Uzbekistan)

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

16:05 - 16:35

Hall K1

ÖGAI Scientific Symposium - round table discussion

Chair: Katja Knapp (Austria)

Chair: Wilfried Ellmeier (Austria)

Career perspectives in Austria and abroad

16:05 - 16:35

Speaker: Stefano Angiari (Austria)

Speaker: Edda Fiebiger (United States)

Speaker: Antonia Müller (Austria)

Speaker: Florentina Porsch (Austria)

Speaker: Felix Richter (Austria)

Speaker: Marta Rizzi (Austria)

Networking Event

16:30 - 21:00

Offsite

yEFIS-NGI-JC Scavenger hunt and Get-Together

Satellite Symposium

16:35 - 17:00

Hall K1

ÖGAI Satellite Symposium - prize ceremony*Chair:* Wilfried Ellmeier (Austria)*Chair:* Nicole Boucheron (Austria)*Upon Invitation*

17:00 - 18:15

Hall K1

ÖGAI General Assembly*Upon Invitation*

17:30 - 18:30

Hall G

DGfI General Members' Assembly*Networking Event*

18:30 - 20:00

Hall E2

DGfI and ÖGAI Get-together

Monday, 18. August 2025*Upon Invitation*

08:00 - 10:00

Hall N

75th IUIS Annual Council Meeting*Satellite Symposium*

08:30 - 09:30

Hall F1

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

08:30 - 12:30

Hall G

DGfI Satellite Symposium: Highlights of German Immunology**CD96: a new co-stimulatory receptor on primary human CD4+ T cells**

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

09:00 - 09:15

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**

09:15 - 09:30

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

09:30 - 09:45

Oral Abstract Presenter: Felix Weiss (Germany)*Satellite Symposium*

08:45 - 10:30

Hall F2

Immune profiling in B cell biology*Chair:* Ola Grimsholm (Austria)*Chair:* Rajagopal Murugan (Netherlands)**The role of memory B cells in naïve immune responses**

08:45 - 09:15

Speaker: Hedda Wardemann (Germany)**Impact of naïve B cell repertoire features on virus neutralizing responses**

09:15 - 09:45

Speaker: Gunilla Karlsson Hedestam (Sweden)**The function of B cell marker proteins including CD20**

09:45 - 10:15

Speaker: Michael Reth (Germany)**Sponsor talks**

10:15 - 10:30

Satellite Symposium

09:00 - 10:30

Hall E2

APAAACI Symposium*Chair:* Ruby Pawankar (Tokyo, Japan)*Chair:* Rudolf Valenta (Vienna, Austria)**The future of allergen micro-arrays for allergy diagnosis**

09:00 - 09:25

Speaker: Huey-Jy Huang (Austria)***Blomia tropicalis* and *Dermatophagoides pteronyssinus*, similar but different major allergen sources: From allergen molecules to diagnosis and specific immunotherapy**

09:25 - 09:50

Speaker: Nishelle Dsouza (Austria)**Presentation by Ruby Pawankar**

09:50 - 10:15

Speaker: Ruby Pawankar (Japan)*Satellite Symposium*

10:00 - 12:30

Hall F1

Explore career paths & network with colleagues across different industries*Upon Invitation*

10:30 - 12:30

Hall E1

General Assembly IUIS*Satellite Symposium*

11:00 - 13:00

Hall E2

Symposium of the Academy of Sciences of Uzbekistan*Chair:* Victoria Garib (Uzbekistan)*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)*Upon Invitation*

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**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**Maternal obesity disrupts breast milk immunity**

15:00 - 15:10

Rising Star Awardee: Marion E. G. 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)**Presentation by Rita Carsetti**

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**Monocyte-derived tissue macrophages**

16:45 - 17:15

Plenary Speaker: Steffen Jung (Israel)**Determinants of pulmonary macrophage homeostasis**

17:15 - 17:45

Plenary Speaker: Sylvia Knapp (Austria)

Embracing tumor macrophage heterogeneity

17:45 - 18:15

Plenary Speaker: Florent Ginhoux (Singapore)

Plenary Lecture

16:45 - 18:15

Hall F1

Treatment options for allergy and autoimmune diseases

Chair: Barbara Bohle (Austria)

Presentation by Georg Schett

16:45 - 17:15

Plenary Speaker: George Schett (Germany)

Can farm children inform us about novel treatment options for asthma and allergies?

17:15 - 17:45

Plenary Speaker: Erika von Mutius (Germany)

The present and future of therapeutic options in IBD

17:45 - 18:15

Plenary Speaker: Saurabh Mehandru (United States)

Plenary Lecture

16:45 - 18:15

Hall F2

Artificial intelligence and systems immunology

Chair: Christoph Bock (Austria)

The tapestry of human prenatal immunity

16:45 - 17:15

Plenary Speaker: Muzlifah Haniffa (United Kingdom)

Programmed Cells? Epigenetics and Cell Engineering for Immunity and Cancer

17:15 - 17:45

Plenary Speaker: Christoph Bock (Austria)

Cellular drivers and molecular checkpoints of intestinal type 2 immunity

17:45 - 18:15

Plenary Speaker: Xiaoyu Hu (China)

Networking Event

18:15 - 19:15

Exhibition Hall

Welcome 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:* 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)**Molecular mechanisms of antigen specific responses in TCR-NK cells**

08:55 - 09:20

Symposium Speaker: Tolga Sütü (Turkey)**Myeloid cells and cancer immunotherapy**

09:20 - 09:45

Symposium Speaker: Maria Sibia (Austria)**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: Ekaterina Gubernatorova (Moscow, Russian Federation)

Selective inhibition of proinflammatory cytokines produced by distinct cell types as a new paradigm for therapy

08:30 - 08:55

Symposium Speaker: Sergey 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)

Synthetic circuit immuno modulation in infectious disease

09:20 - 09:45

Symposium Speaker: Shailza Singh (India)

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: Alexander Gabibov (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> Ingileif Jonsdottir (Iceland)	
<i>Chair:</i> Ursula Wiedermann (Austria)	
Vaccine candidates 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 (Russian Federation)	
Presentation by Thierry Mora	08:30 - 08:50
<i>Symposium Speaker:</i> Thierry Mora (France)	
Presentation by Paul Thomas	08:50 - 09:10
<i>Symposium Speaker:</i> Paul Thomas (United States)	
Presentation by Vincent Van Deuren	09:10 - 09:30
<i>Speaker:</i> Vincent Van Deuren (Belgium)	
Presentation by Dmitry Chudakov	09:30 - 09:50
<i>Symposium Speaker:</i> Dmitry Chudakov (Russian Federation)	

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> 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)	
Raman spectra of exhausted T cell subsets reveal key molecular drivers of T cell exhaustion	10:46 - 10:54
VSIG2 as a novel immunosuppressive ligand interacts with Nectin-2 to regulate T cell responses	10:54 - 11:02
Bystander Th17 immunity and its functional impact on fungal infections	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Shweta Venugopal Sabu (Switzerland)	
Pro-inflammatory secretome from intestinal epithelium recruits regulatory T cells for barrier defence	11:10 - 11:18
<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	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Jeremy Chase Crawford (United States)	
Immune dysregulation in Large Vessel Vasculitis: the emerging role of VISTA and ICOSL	11:26 - 11:34
<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	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Pedro Lucinda (Brazil)	
The Impact of Disrupting the BTNL- γδ T cell Axis, with implications for Crohn's Disease	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Ambra Natalini (United Kingdom)	
Dissecting MAIT Antigen 5-OP-RU Genesis from Mammalian Small Molecules	11:50 - 11:58
<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)	
Siglec-1/CD169+ macrophages orchestrate immune reaction and matrix deposition in pancreatic cancer	10:30 - 10:38

Characterizing immune evasion of metastatic osteosarcoma in a newly generated genetically-engineered mouse model	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Stefanie Stolzlechner (Austria)	
Hepatic Th2 Loss in Liver Metastasis: A Feedback Loop Enhancing Metastatic Progression	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Jingya Wang (Hong Kong)	
PGK1-mediated ligand-independent PD-1 Activation Confers Resistance to PD-1 Blockade Therapy	10:54 - 11:02
<i>Oral Abstract Presenter:</i> 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
<i>Oral Abstract Presenter:</i> Léa Zimmermann (France)	
Peripheral and tumor immune signatures predict response to immunotherapy in advanced HER2-negative breast cancer	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Sabrina Dhooge (Argentina)	
Immunotherapeutic targeting of NANOG-regulated miR-302/ERK/GSK3β pathway in colorectal cancer stem-like cells through patient-derived organoid models, <i>in vivo</i> xenografting, <i>In vitro</i>, and structural dynamics analysis	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Kiarash Saleki (Iran)	
Dendritic Cell-Based Cancer Immunotherapy: Harnessing the TLR7-mROS-IL-12 Axis to Boost NK Cell Activation	11:26 - 11:34
<i>Oral Abstract Presenter:</i> 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	11:34 - 11:42
Enhanced survival and reduced toxicity with intravenously delivered tumour-targeted IL15 superagonist in solid tumour models	11:42 - 11:50
<i>Abstract Session</i>	
10:30 - 12:00	Hall E2
Skin and barrier immunity	
Embryonic mast cells arise from Cpa3-expressing precursors independent of granulocyte-monocyte progenitors	10:30 - 10:38
Mast Cell Chymase Cleaves Galectin-3 and Compromises Barrier Integrity in Ulcerative Colitis	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Afshin Derakhshani (Canada)	
Blockade of cannabinoid 1 receptor in infiltrating macrophages alleviates skin inflammation in preclinical psoriasis models	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Hongseo Choi (Korea, Republic of)	
Epidermal Blimp-1 deficiency-associated barrier dysfunction and microbial dysbiosis cause atopic dermatitis-like skin inflammation	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Kuo-I Lin (Taiwan)	
Guarding the Gates: The hair canal prevents pathogenic dysbiosis of the skin	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Lena Artner-Gent (Austria)	
Differential Impact of Sphingomyelinase D Isoforms on Human Keratinocytes: Mechanisms of Inflammation and Wound Healing in <i>Loxosceles</i> Envenomation	11:10 - 11:18

Oral Abstract Presenter: Bruna Pinto (Brazil)

Insights into granuloma resolution upon mTOR inhibition in sarcoidosis patients 11:18 - 11:26

Oral Abstract Presenter: Kveta Brazdilova (Austria)

Topical inhibition of 11 β -HSD1 enhances cutaneous wound healing in diabetic mice by abrogating local glucocorticoid reactivation 11:26 - 11:34

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 11:34 - 11:42

Oral Abstract Presenter: Fabian Stritt (Germany)

Dysregulated MAIT cells in patients with hidradenitis suppurativa 11:42 - 11:50

Abstract Session

10:30 - 12:00

Hall F1

Immunity to bacteria

Chair: Irma Schabussova (Vienna, Austria)

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 11:50 - 11:58

individuals with latent or active tuberculosis*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

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

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

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

Oral Abstract Presenter: Sidong Xiong (China)

Mitochondrial Transfer in Oral Cancer impairs CD4⁺ T cell responses by promoting cell exhaustion via hypoxic stress 11:02 - 11:10

Commandeering T cell fates and Adoptive T cell therapeutic Outcomes in Solid Tumors Using Cytokines and De Novo Engineered Mimetics 11:10 - 11:18

The eATP receptor P2RX7 promotes optimal progenitor exhausted CD8⁺ T cell responses to anti-PD1 blockade 11:18 - 11:26

Oral Abstract Presenter: Henrique Borges da Silva (United States)

KLF2 maintains lineage fidelity and suppresses CD8 T cell exhaustion 11:26 - 11:34

Oral Abstract Presenter: Nikhil Joshi (United States)

Fueling Immune Checkpoint Therapy with Asparaginase to Boost T Cell Activation in Nasopharyngeal Carcinoma 11:34 - 11:42

Oral Abstract Presenter: Huang-Yu Yang (Taiwan)

Overexpressing hepcidin in T lymphocytes: a new weapon to fight cancer ? 11:42 - 11:50

Oral Abstract Presenter: Manel Beldjilali (France)

Nonclassical action of Ku70 promotes FOXP3⁺Treg mediated suppression in lung adenocarcinoma 11:50 - 11:58

Abstract Session

10:30 - 12:00

Hall N

Innate immunity

Chair: Suprabhat Mukherjee (Asansol, India)

Novel gatekeeper in post-septic immune responses: Myeloid-derived suppressor cells (MDSCs) 10:30 - 10:38

Oral Abstract Presenter: Rawan Kawach (Germany)

UFMylation of NLRP3 Prevents Its Autophagic Degradation and Facilitates Inflammasome Activation 10:38 - 10:46

Oral Abstract Presenter: 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

Oral Abstract Presenter: Amiram Ariel (Israel)

Histone demethylase KDM4B epigenetically controls NLRP3 expression to enhance inflammatory responses 10:54 - 11:02

Oral Abstract Presenter: Ying Qin (China)

Clustering of NLRP3 on diverse cellular scaffolds is a key step toward inflammasome formation 11:02 - 11:10

Oral Abstract Presenter: Iva Hafner Bratkovič (Slovenia)

LRRK2 regulates the formation of neutrophil extracellular traps against *Candida albicans* in mucosal infection 11:10 - 11:18

Oral Abstract Presenter: Kai-Quan Leong (Taiwan)

Mechanical reprogramming of neutrophils sustains pulmonary homeostasis 11:18 - 11:26

Oral Abstract Presenter: Jin Wang (China)

Complement in breast milk promotes infant health via shaping offspring's evolving gut microbiota	11:26 - 11:34
Pyrin inflammasome activation leads to an IL-18-driven IFN-γ response, in a mevalonate kinase deficiency model	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Niels van Heusden (Netherlands)	
Cytokine-Primed Fibroblast-like Synoviocyte-Immune cell Interactions Promote Immune Activation and Synovial Pathotype Development in Rheumatoid Arthritis	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Mirjam Dellinger (Austria)	
Investigating the impact of sepsis on bone marrow using iPSC-derived human bone marrow organoids (BMOs)	11:50 - 11:58
<i>Oral Abstract Presenter:</i> Michal Santocki (Czech Republic)	
<i>Abstract Session</i> 10:30 - 12:00	Hall L1 & L2
Immune regulation: DC and metabolism	
<i>Chair:</i> Johannes Stöckl (Austria)	
<i>Chair:</i> Sue Tsai (Edmonton, Canada)	
Efficient Induction of Tolerogenic Dendritic Cells by Overexpression of the A20 and BTLA Genes	10:30 - 10:38
Cross-presentation of tumor antigen from complex environments	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Tori Schuster (United States)	
BATF induced DC-SCRIPT dampens IFN I production in plasmacytoid dendritic cells	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Shafaqat Ali (Germany)	
Monocyte-derived LysoDCs mediate distinct Th17 immunity in Peyer's patches driven by segmented filamentous bacteria	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Renan O. Corrêa (France)	
TRIM33 Plays a Critical Role in Regulating Dendritic Cell Differentiation and Homeostasis by Modulating <i>Irf8</i> and <i>Bcl2l11</i> Transcription	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Li Wu (China)	
Dysregulation of the phosphoinositide 3-kinase signaling pathway can drive autoimmunity via metabolic reprogramming of B cells: role of hexokinase 2	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Aaron Marshall (Canada)	
HIF2α Signaling in Myeloid Leukocytes Compromises the Host's ability to Control <i>Mycobacterium tuberculosis</i> Infection	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Joseana de Oliveira (Brazil)	
Metabolic fitness shapes humoral immunity towards extrafollicular memory B cells in severely obese individuals	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Elif Cakan (United States)	
GLUT3 promotes stemness and survival of activated CD8 T cells through ROS detoxification	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Hao Wu (Germany)	
miR-10a triggers the beigeing of adipocytes through induction of IL-33 and regulatory T cells to modulate adipogenesis and adipose tissue inflammation	11:42 - 11:50
Obesity-associated immune dysfunction affects vaccination outcomes and natural immunoglobulin production in obese adults	11:50 - 11:58
<i>Oral Abstract Presenter:</i> Erika Garner-Spitzer (Austria)	

Abstract Session

10:30 - 12:00

Hall L3

Asthma**Immune Homeostasis Regulation by Bio-Regulators of Bacterial Origin**

10:30 - 10:38

Oral Abstract Presenter: Svetlana Guryanova (Russian Federation)**Effect of transduced mesenchymal stem cells with IL-10 gene on control of allergic asthma**

10:38 - 10:46

Type 1 IFNs drive trained immunity in asthma

10:46 - 10:54

Oral Abstract Presenter: Eya Ben Salah (Switzerland)**Cross-compartment multi-modal analyses identify ancestral differences in IL2-STAT5 signalling associated with asthma**

10:54 - 11:02

Oral Abstract Presenter: Duan Ni (Australia)**Targeting RNA-binding protein HuR (*Elavl1*) with small molecule inhibitor KH-3 suppresses type 2-driven airway inflammation in allergic asthma**

11:02 - 11:10

Lipid receptors as key regulators of pathogenic T cells in allergic airway inflammation

11:10 - 11:18

Oral Abstract Presenter: Anna Krone (Germany)**Type-3 airway immunity in early life: Good or bad?**

11:18 - 11:26

Oral Abstract Presenter: Carsten B. Schmidt-Weber (Germany)**Age- and immune-independent epithelial programs as predictive markers for asthma persistence in childhood**

11:26 - 11:34

Oral Abstract Presenter: Constanze A. Jakwerth (Germany)**Respiratory syncytial virus (RSV) infections may be a trigger factor for adult asthma**

11:34 - 11:42

Oral Abstract Presenter: Katarzyna Niespodziana (Austria)**The phosphatase DUSP23 promotes Th2-induced allergic asthma and atopic dermatitis by preventing GATA3 ubiquitination and degradation**

11:42 - 11:50

Oral Abstract Presenter: Tse-Hua Tan (Taiwan)*Satellite Symposium*

10:30 - 12:00

Room 0.49-50

EFIS Taskforce on Education*Chair:* Vera Martins (Lisbon, Portugal)*Chair:* Pablo Engel (Spain)**The EFIS Taskforce Education and an interactive databank for milestones in immunology**

10:30 - 10:45

Speaker: Hans-Martin Jäck (Germany)**Problem-oriented learning concepts for immunology**

10:45 - 11:00

Speaker: Thomas Winkler (Germany)**Immunopaedia - a learning platform for immunology**

11:00 - 11:15

Speaker: Bon Holtak (South Africa)**Computer-based models to teach immunology from the undergraduate to professional and graduate level**

11:15 - 11:30

Speaker: Louis B. Justement (United States)**Round-table discussion**

11:30 - 12:00

Speaker: Francesco Annunziato (Italy)*Speaker:* Raivo Uibo (Estonia)

Speaker: Marion Espéli (France)

Poster Walk
12:15 - 13:45

Poster Area

Mixed topics

- 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 Rreview Ccommittee**

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

- 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**

- 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**

- I.405 **Optimizing a Multicolor Flow Cytometry Panel Using the CytoFLEX mosaic Spectral Detection Module for Immune Cell Analysis**

Poster Presenter: Anisha Jose (India)

- I.406 **OMIP-104, a 30-color spectral flow cytometry panel, on CytoFLEX mosaic Detection Module 88**

Poster Presenter: Anisha Jose (India)

- I.407 **Optimization of a B cell multicolor panel with CytoFLEX mosaic Spectral Detection Module 88**

Poster Presenter: Anisha Jose (India)

- I.408 **Optimization of a T, ILCs, MAIT and NK cells multicolor panel with CytoFLEX mosaic 63 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 **Utilization of proteomic surrogates for early detection of unexpected drug benefits**

Poster Presenter: Melissa Klug (Germany)

- I.412 **Immunoglobulin G-dependent enhancement of the infection with Cocksackievirus B4 in a murine model**
- I.413 **innovative aptamer-HRP conjugation in Enzyme-linked aptamer-based sandwich assay (ELASA) for the detection of cardiac troponin I in the diagnosis of AMI**
- I.414 **Gut Microbiome from Individuals with Anorexia Nervosa Worsen Disease Symptoms in a Mouse Model**
- I.415 **Microbiota of the urethra of patients with prostate cancer**

Poster Walk
12:15 - 13:45

Poster Area

Allergy

- 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.003 **Antiepileptic medication-induced severe cutaneous adverse reactions in hospitalized children: a retrospective study**

- I.004 **DUSP8 promotes IL-9 transcription and Th9-mediated allergic diseases by preventing Pur- α nuclear translocation**

- 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.011 **Allergies and hypersensitivity in Benin: Immunological and epidemiological profile**

- I.012 **Suppression of Fc ϵ RI-evoked Degranulation in RBL-2H3 Cells on Gelatin Methacryloyl Hydrogel**

Poster Presenter: Tadahide Furuno (Japan)

- I.013 **Transplacental immunoglobulin D protects infants from food**

allergy*Poster Presenter:* Kang Chen (United States)

- 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**

- I.017 **IgE Plasma cell Regulation and Survival Mechanisms**

- I.018 **Characterization of nasal provocation-induced changes in transcription factors in birch pollen-allergic and non-allergic individuals**

Poster Presenter: Giovanni Lamorte (Austria)

- I.019 **Immunomodulatory Effects of Bone Marrow Mesenchymal Stem Cells-Derived Exosomes on Th17 Cell Responses in Mild and Severe Allergic Asthma Patients**

Poster Walk
12:15 - 13:45

Poster Area

Cancer 3

- 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.183 **Expression of immune check point inhibitors alongside CD45RO in seminoma and dysgerminoma**

- I.184 **Lights and shadows of innate lymphoid cells in 4T1 and MC4-L2 breast cancer models**

- I.185 **The Chronic Cellular Landscape of Prostate Cancer Immunology: Implications for Therapeutic Strategies**

Poster Presenter: Samuel Akinyemi (Russian Federation)

- I.186 **Role of Bcl-3 and senescence in Colorectal Cancer**
- I.187 **Characterization of intratumoral microbiome of multiple myeloma.**
- 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**
- I.193 **The role of ZNF334 in glioma growth, migration and IL-6 secretion**
- I.194 **The effect of photodynamic therapy on cell cycle arrest and apoptosis induction of osteosarcoma cancer cells: A Systematic Review**
- I.196 **Interleukin IL-23a as a potential therapeutic target in colorectal cancer: A comparative analysis with IL-22**

Poster Walk
12:15 - 13:45

Poster Area

Autoimmunity 3

- I.079 **Reactive Oxygen Species Production by Monocytes Negatively Correlates with Disease Activity in Rheumatoid Arthritis**
- I.080 **Expression analysis of IIFN-stimulated genes in lupus patients - essential step towards optimizing personalized therapy**
- I.081 **Characterization of cDC2s differentiated from APECED patient iPSCs**
- 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**
- I.085 **Monocytes and monocyte-derived dendritic cells in spondyloarthropathies indicate higher phagocytotic and antigen presenting ability, further augmented by IL-17**
- I.086 **Effects of methimazole on experimental autoimmune thyroiditis**
- I.087 **Safety, Immunogenicity, and Long-Term Efficacy of Varicella Vaccination in Children with Juvenile Idiopathic Arthritis on Anti-Cytokine Therapy**

- I.088 **Investigation of the Frequency of CXCL16 Gene Polymorphism (rs2277680) in Lupus Patients and Its Association with Clinical Symptoms and Laboratory Findings**
- I.089 **Osteoclast activity and bone loss in cholestatic liver disease models: A comparative study of DDC- and ANIT-induced cholestasis in mice**
Poster Presenter: Pavao Planinić (Bosnia and Herzegovina)
- I.090 **Spatiotemporal characterisation of neutrophil populations and their niches in antigen-induced arthritis**
- 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**
- I.094 **TLR CD180 Ligation Augments Disrupted B Cell Complement Receptor Expression in Systemic Sclerosis**
Poster Presenter: Rovéna Subicz (Hungary)
- I.095 **Dysregulated Expression of Annexin A1 and its Formyl-Peptide Receptors in Immune Cells During Systemic Lupus Erythematosus**
- I.096 **The Role of the Chemokine Receptor CCR5 in Giant Cell Arteritis.**
Poster Presenter: Annie Peacock (United Kingdom)
- I.097 **Investigation of the Frequency of ADAM33 Gene Polymorphism (rs2787094) in Lupus Patients and Its Association with Clinical Symptoms and Laboratory Findings**
- I.098 **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

Novel immunomodulation therapies

- 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**
- I.419 **Immunomodulatory Effects of Dexamethasone-Primed Mesenchymal Stem Cell Conditioned Media on Immune Responses in SLE Patients and Clinical Pathology in a Lupus Mouse Model**
Poster Presenter: Khushbu Priya (India)
- I.420 **Oxidized phospholipids regulate tenocyte function via the induction of amphiregulin in dendritic cells**
Poster Presenter: Veronica Pinnaro (Austria)
- I.421 **Delivery of an immunomodulatory reagent into the CNS via intranasal nanoliposomes in EAE**

- I.422 **Preoperative Exercise Therapy Modulates Circadian-Dependent Innate Immunity against Liver Ischemia/Reperfusion Injury**
Poster Presenter: Hai Huang (United States)
- I.423 **Immunotherapy in bronchopulmonary cancer: monitoring of patients through immunophenotyping**
- 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**
- 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**
- I.429 **Assessment of wound healing potential of Curcumin loaded Silver Metal-Organic Frameworks (Ag-MOFs) in Excisional Wound Models of Rats**
- I.430 **Generation of Tim-3 inhibitor single domain antibody by phage display technique**
- I.431 **Protective Effects of 5-aminolaevulinic acid with sodium ferrous citrate on unilateral ureteral obstruction-induced renal injury and fibrosis**
- I.432 **MV130 as a new innate memory-based immunotherapy against cancer**

Poster Walk
 12:15 - 13:45

Poster Area

Cancer 4

- I.197 **Impact of *Fusobacterium nucleatum* on IL-22 and IL-23 gene expression in Colorectal Cancer**
- I.199 **Triple-negative breast cancer-derived exosomes change the immunological features of human monocyte-derived dendritic cells and influence T-cell responses**
- I.200 **PD-1 and CTLA-4 serve as major gatekeepers for effector and cytotoxic T-cell potentiation by limiting a CXCL9/10-CXCR3-IFN γ positive feedback loop**
- I.201 **eEF2K Drives Tumor Immune Evasion via Stabilization of PD-L1 Through the Cyclin D1 Pathway**
- I.202 **Unveiling the Intricacies of PD-1/PD-L1 Interaction - Insights into Intercellular Exchanges in Tumor-Immune Cell Crosstalk**
- I.203 **Harnessing the power of Tumor-Derived Exosomes Enriched by miRNA-145 in promoting anti-tumor responses, in vitro**
- 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**
- I.206 **Identification of immune-related genes involved in radiation resistance in rectal cancer patients**
- 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.210 **CD81 and CD38 as potential targets for development of therapeutics for pediatric B-ALL in Mozambique**
- I.211 **Differential effects of indirubin-3'-monoxime on FLT3-ITD and wild-type acute myelogenous leukemia cells**
- I.212 **Exosome-Derived Gene Signatures as Prognostic Biomarkers and Immune Modulators in Gastric Cancer**
- 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 Dells Promote Colon Cancer Development at an Early Stage**
- I.215 **The role of tryptophan depletion in regulatory T cell-mediated immunosuppression in the tumor microenvironment**
- I.216 **First Identification of Adaptive NK Cells in Breast Cancer Tumors: Implications for Immunotherapy**
- I.218 **Prognostic Significance of Epstein-Barr Virus and p53 Expression in Tunisian Breast Carcinoma: Impact on Overall Outcomes**

Poster Walk
12:15 - 13:45
HIV

Poster Area

- 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**
- I.556 **Distinct immuno-metabolic profile linked to HIV-associated neurocognitive disorders (HAND): The role of a disrupted gut-brain axis**
- I.557 **HIV-1 impairs T-cell cytotoxicity through the LAG-3-Gal-3 axis**

- I.558 **Persistent immune activation limits cellular immunity at first antigen encounter in treated people with HIV**
- I.559 **Harnessing immunopeptidomics to characterise CD8⁺ T cell mediated HIV-1 control**
- 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**
- 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.567 **Multicolor Flow Cytometry Panel for Investigating the Relationship Between HIV-1 Reservoir Cells and Their Senescence: Validation Study for Sorting Senescent Reservoir Cells**
- I.568 **HIV-associated chronic inflammation derived intestinal injury does not mediate reduced transplacental transfer of anti-enteroviruses antibodies in pregnant women living with HIV**
- I.569 **Impaired T Helper Cell Differentiation and Enhanced Dendritic Cell Activation in HIV-Exposed Uninfected Newborns**
- I.570 **INFLAMMATORY BIOMARKER PROFILING TO PREDICT NEUROINFLAMMATION AND DEPRESSION IN ADOLESCENTS WITH HIV**
- 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 **HIV-1 manipulates CD96 on CD4⁺ T Cells to subvert antiviral immunity**
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

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

Poster Walk
12:15 - 13:45

Poster Area

COVID

- 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.535 **Identification of soluble biomarkers that associate with distinct manifestations of long COVID**

Poster Presenter: Yu Gao (Sweden)

- 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.537 **COVID-19's immuno-pathology and cardiovascular diseases**

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

- I.539 **T cell hybrid immunity against SARS-CoV-2 in children: a longitudinal study**

Poster Presenter: Martin Daniel Qui (Singapore)

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

- 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**

- 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**

- 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.550 **Impact of the MCP-1-2518A>G polymorphism on COVID-19 severity in the Iranian population: A case-control study**

- I.551 **Cytokine profiles, endothelial dysfunction, and immuno-clinical phenotypes in Post-COVID Syndrome**

- 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

Vaccines

- 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 (Korea, Republic of)

- I.521 **Engineered Outer Membrane Vesicles as a Novel Vaccine Platform against COVID-19**

- I.522 ***Leishmania spp.* Extracellular Vesicles Mediates Protection in Visceral Leishmaniasis**

- 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.526 **Innovative Therapeutic Vaccine for Cutaneous Leishmaniasis in BALB/c Mice: PLGA Nanoparticles Loaded with *Leishmania* Antigen, R848 and Pam3CSK4 Agonists**

Poster Presenter: Asal Katebi (Iran)

- 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.528 **Chitosan microparticles coupled to MAGE-AX and CpG as a treatment for murine melanoma.**

Poster Presenter: Ariel Ramírez Cortes (Mexico)

- 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**

- I.532 **Development of prosvac-incan:an mrna vaccine against prostate cancer**

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

Poster Walk
12:15 - 13:45

Poster Area

T cells 2

- I.497 **Rroid2 regulates effector and memory CD8⁺ T cell responses during infection *in vivo***

Poster Presenter: Dietmar Herndler-Brandstetter (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**

- 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**

- 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**

- I.505 **In Vitro Differentiation of Tissue Resident Memory Phenotype T Cells with Gut Homing Moiety: Towards Site-Specific Immunotherapy**

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

- 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 Elmzzahi (Germany)

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

Poster Presenter: Parminder Kaur (India)

- I.510 **Progenitor exhausted CXCR6⁺PD-1⁺ Tissue Resident memory T cells mediate survival in patients with colorectal cancer liver metastatic**

Poster Presenter: Emilien Laloy (France)

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

- 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 Walk
12:15 - 13:45

Poster Area

Reproductive immunology

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

Poster Presenter: Rubén Darío Motrich (Argentina)

- I.452 **Sperm activate TLR2 rather than TLR4, via uterine factors regulation, to induce mild physiological inflammation essential for endometrial function for pregnancy in cattle**

Poster Presenter: Alireza Mansouri (Japan)

- I.453 **Inflationary human cytomegalovirus-specific CD8⁺ T cells in pregnancy**

Poster Presenter: Brandon Paarwater (South Africa)

- I.454 **Comparing the effects of extracellular vesicles derived from amniotic fluid (AF-EVs) and umbilical cord serum (UCS-EVs) on the mouse model of intrauterine adhesions**

- I.455 **Investigating the effects of intradermal lymphocyte therapy (LIT) on ATP catabolism and immune regulation in patients with recurrent implantation failure (RIF)**

- I.456 **Predicting Pregnancy Loss Using Machine Learning Models and Pre-Pregnancy Characteristics: A Retrospective Cohort Study**

- I.457 **Evaluation of Treg- and Th17-Associated Factors in Patients with Premature Ovarian Failure**

- I.458 **The effects of intradermal lymphocyte therapy (LIT) on ATP catabolism and immune regulation in patients with recurrent pregnancy loss (RPL)**

- I.459 **Investigating PVT1/miR-21-5p/IL-17 inflammatory response pathway in women with diabetic recurrent miscarriage: a pilot clinical study**

- I.460 **Investigating miR-3076-3p/NEAT1/NLRP3 inflammatory pathway in**

recurrent pregnancy loss (RPL) women compared to healthy controls

- 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**

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

- I.464 **Decreased number of myeloid-derived suppressor cells in the placental trophoblast of gestational diabetes mellitus. Possible role of leptin**

- I.465 **DIAGNOSTIC SIGNIFICANCE OF SERUM CHEMOKINES IN THE PATHOGENESIS OF ADENOMYOSIS**

- I.466 **COMPARATIVE ANALYSIS OF ANGIOGENIC AND ANTI-ANGIOGENIC BIOMARKERS IN PLACENTAL DYSFUNCTION AND PHYSIOLOGICAL PREGNANCY**

- I.467 **Th1 and Th2 Specific Cytokines as Modulators of Endometrial Receptivity**

Poster Presenter: Eva Kriváková (Slovakia)

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

Poster Presenter: Aline Brouwer (Netherlands)

- I.469 **Frequency of Anti-TPO and Anti- TG antibodies in the serum of women with Recurrent pregnancy loss**

- I.470 **Frequency of Antinuclear Antibodies (ANA) and Anti-dsDNA Antibodies in Women with Recurrent pregnancy loss**

- I.471 **INFLAMMATION AND T CELL IMMUNITY IN PREGANT PEOPLE LIVING WITH AND WITHOUT HIV IN SOUTH AFRICAN**

- 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

Cancer 2

- I.156 **The role of NLRC5 in tumor immune surveillance**

Poster Presenter: Subburaj Ilangumaran (Canada)

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

- I.158 [Involvement of HLA-E gene polymorphism in colorectal cancer prognosis](#)

- 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, expanded NK cells and SLAMF7 CAR-NK 92 combined with proteasome inhibitors on multiple myeloma cells**
- I.161 **Streamlined mouse tumor processing with STEMprep™: Automated, Efficient, and Reliable**
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**
- I.165 **Cancer combination therapies with sorafenib and anti-miR-222 in renal cell carcinoma**
Poster Presenter: Erfan Komijani (Iran)
- I.166 **Identification and Validation of Metabolic Hub Genes via WGCNA and Prognostic Risk Modeling for Survival Prediction in Acute Myeloid Leukemia**
- I.167 **EVALUATION OF THE ADJUVANT EFFECT OF NICOTINAMIDE IN A CHEMOTHERAPY TREATMENT FOR HUMAN INTESTINAL CANCER**
Poster Presenter: Luis Moreira (Brazil)
- I.168 **Siglec-14 promotes tumor-associated macrophage phenotype and angiogenesis in colorectal cancer**
- I.169 **Innate NKG2A CD8 T-cells as a promising new target for immunotherapies in ovarian cancer**
Poster Presenter: Alice Barbarin (France)
- I.170 **Identifying Prognostic Markers of Pediatric Acute Myeloid Leukemia in Mozambique**
- I.171 **Investigation of dietary influence on lipid droplets in colon cancer development**
Poster Presenter: Jessica Ristow Branco (Brazil)
- I.172 **PD-L1 CAR NK cells, produced by transduction of CD34+ stem cells and their differentiation into NK cells, significantly has cytotoxic function against target cells and revive exhausted T cells**
- I.173 **Peripheral blood neutrophils in advanced melanoma patients undergoing immunotherapy with anti-PD1 immuno-checkpoint inhibitors (ICI)**
- 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**
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

Antigens and antibodies**I.020 A real-time biochemical assay for AID-catalyzed DNA deamination***Poster Presenter:* Kazuo Kinoshita (Japan)**I.023 Dyslipidemia alters the splenic IgM-secreting cells compartment in atherosclerotic mice***Poster Presenter:* Justine Deroissart (Austria)**I.024 Correlation between salivary antimicrobial peptides and IgG and IgA antibodies reactive with *C. albicans* in early childhood caries***Poster Presenter:* Marijana Kovačić (Serbia)**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****I.027 Ethanol-Induced Systemic IgE Elevation Aggravates Alcohol-Associated Liver Disease via FcεRIα Signaling in a T Cell-Dependent Manner***Poster Presenter:* Taras Baranovskyi (Austria)**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****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****I.031 Characteristics of neutralizing antibodies isolated from HIV-1-infected and vaccinated participants****I.032 N-Glycanase 1 (NGLY1) fine-tunes the formation and function of antibody-secreting cells***Poster Presenter:* Christina Brunner (Germany)**I.033 Tailoring the adjuvanticity of lipid nanoparticles by PEG lipid ratio and phospholipid modifications**

12:15 - 12:19

Poster Presenter: Norbert Pardi (United States)**I.034 Turning Immune Evasion Mechanism of Cancers into an Anti-tumour Immune Response****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)

- I.039 **High-throughput and high-dimensional single cell profiling for antigen-specific CD4+ T cells**

Poster Walk
12:15 - 13:45

Poster Area

T cells 1

- 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.479 **Pharmacological mitochondrial targeting to modulate T cell metabolism: Improvement of their cytotoxic capacity *in vitro***

Poster Presenter: Brian Mauricio Alfonso Diaz (Colombia)

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

- 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 γ 62 T cells sustain multifunctionality during IL-2/15 stimulation**

- I.486 **Multimodal landscaping of human liver sinusoidal γ 6 T cells according to HCMV serostatus**

- I.487 **γ 6 T cells regulate epithelial cell status in intestinal organoid cultures**

- I.488 **Comparative Functional Insights into Human and Alpaca BTN-V γ 9V62 TCR Interactions**

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

Poster Presenter: Maaïke van der Staak (Netherlands)

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

Poster Presenter: Leonie Schoeftner (Austria)

- I.491 **IL-8 and IL-33 Induce Differentiation of Terminal Effector Memory $\gamma\delta$ T Cells and Inhibit TIM-3 Expression in *Plasmodium falciparum* Placental Malaria in Women at Delivery**

- 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 Walk
12:15 - 13:45

Poster Area

Primary and secondary immunodeficiency

- 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.436 ***DOCK8* and *STAT3* mutation and expression in patients with Hyper IgE syndrome**

Poster Presenter: Nima Rezaei (Iran)

- I.438 **A Deep Intronic *DOCK8* Variant in Two Kindreds with Hyper-IgE Syndrome**

Poster Presenter: Fatma Betül 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.440 **X-linked Lymphoproliferative disease 1 with severe HLH due to a novel *SH2D1A* variant**

- I.441 **Challenges in diagnosing MSMD-like phenotypes: Genomic and transcriptomic insights from South Africa**

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

- 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**

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

Poster Presenter: Lucia Peirano (Argentina)

- I.447 **Clinical manifestations, immunological characteristics and genetic analysis of patients with immunodeficiency, centromeric region instability, facial anomalies syndrome (ICF)**

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

Poster Walk
12:15 - 13:45

Poster Area

Clinical immunology

- 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.241 **CAR-NKT cells in asthma: Use of NKT as a promising cell for CAR therapy**

- I.242 **Targeting Immune cells signaling in allergic asthma**

- I.243 **A case study to investigate the effects of chlorhexidine mouthwash on serum cytokines levels in children with asthma**

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

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

- I.247 **Type-3 cytokines Induce Polarization of Airway Epithelial Cells toward a Novel Mucosal E3 Phenotype**

- I.248 **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**

Oral Abstract 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.250 **Investigating the immunomodulatory potential of fluoxetine (SSRI) in reducing allergic airway inflammation with an emphasis on cellular immunity**

Poster Presenter: Anik Pramanik (India)

- 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 intermitent porphyria treated with the RNA interference-based givosiran**

Poster Walk

12:15 - 13:45

Poster Area

Autoimmunity 1

- I.040 **Multi-target Therapy in Prevention of Steroid-induced Osteonecrosis: A Randomized Controlled Clinical Trial with Preliminary Report**
- I.041 **Tolerance induction and immunomodulatory evaluation of the novel prepared liposomal Glatiramer acetate in EAE murine model of Multiple sclerosis**
- 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.043 **Capturing functional APC-T cell interactions from clinical samples: from cancer to autoimmune disorders**
- I.044 **Modelling inflammatory process of lupus nephritis using patient-derived expanded potential pluripotent stem cells**

Poster Presenter: Chung Sze Or (Hong Kong)

- 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.047 **Serine-related metabolic pathways control the proliferation and effector function of normal and autoimmune lymphocytes**

- 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.051 **Podocytes instruct tissue-resident memory T cells in human lupus nephritis**

I.052 **Arginine di-methylation of RIPK3 safeguards necroptosis for intestinal homeostasis**

Poster Presenter: Jian Zhang (China)

I.053 **Mitochondria-proteasome axis programs tissue-resident memory T cells in patients with rheumatoid arthritis**

I.054 **Self-DNA sensing by ENPP1 determines effector T cell fate in human autoimmunity**

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.057 **METTL3-mediated m⁶A methylation regulates the function of MDSCs in autoimmune arthritis**

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

Autoimmunity 2

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

I.060 **Investigating Helper T and Innate Lymphoid Cells in the Active and Remission Phases of Autoimmune Demyelinating Diseases**

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**

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

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 Wolfgruber (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**

I.068 **The Effect of Mesenchymal Stem Cells-Derived Exosomes on Dry Eye in Sjögren's Syndrome Murine Model**

Poster Presenter: Hyunjung Lee (Korea, Republic of)

I.069 **Developing Human Leukocyte Antigen (HLA) Blockers to Potentially Address Autoimmune Diseases**

- 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**

- I.072 **Insulin loaded and Glyburide-treated human monocyte-derived dendritic cells exhibit tolerogenic phenotype and regulate autologous T cell responses in vitro**

- I.073 **Prevalence of myositis specific autoantibodies in Senegalese patients: A study from Ouakam Military Hospital**

- I.074 **Evaluation of Immune Checkpoints Expression in Patients with Behcet's Disease: A Study of CTLA-4, PD-1, TIM-3, and LAG-3**

- I.075 **Ferroptosis Inhibition alleviates fibrosis in murine models of systemic sclerosis**

- 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**

- 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

Cytokines

- 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.260 **Dexamethasone-Loaded MSC-Derived Extracellular Vesicles Reduce Inflammatory Response and Tissue Damage in Septic Mice**

- 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.262 **CDX-AC2-26 AS ANTIINFLAMMATORY AND PRO-RESOLVING THERAPY AGAINST DENGUE VIRUS-INDUCED PATHOLOGY**

- I.263 **Regulation of Macrophage Polarization Through Endocrine-Macrophage Communication in Pancreatic Islets**

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

- 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

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

I.268 **A High-Sensitivity Electrochemical Sensor for TSLP Detection in Immunological Research**

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**

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**

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

Genetics and bioinformatics

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**

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*Poster Presenter:* Rajesh Meher (India)

- 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**

- I.285 **Immunoinformatic Mapping of the Landscape of T-Cell Specificity and Phenotype in Synovial Fluid of Arthritic Diseases**

- I.286 **Machine Learning Approaches to Dissect Hybrid and Vaccine-Induced 1 Immunity**

- I.288 ***In silico* design of a multi-epitope chimeric vaccine based on proteins from exosomes secreted by *Brucella abortus*-infected macrophages and the immunity induced by these exosomes**

Poster Presenter: Angel Oñate (Chile)

- I.289 **Integrative Analysis of Single-Cell RNA and TCR Sequencing Data Reveals Clonal Features in Human Diseases**

Poster Presenter: Hongjian Sun (Australia)

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

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

- 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 Walk
12:15 - 13:45

Poster Area

Infectious diseases 1

- I.334 **Th17/Treg ratio in COPD patients with normal and high pulmonary arterial hypertension**

- I.335 **Nanocurcumin as a Therapeutic Agent: Modulating Th17/Treg ratio in Moderate to Severe COPD**

Poster Presenter: Sanaz Abbaspour-Aghdam (Iran)

- I.336 **The potential role of red blood cells in the innate immune response to *Mycobacterium tuberculosis*.**

- I.337 **Assessing the effects of diabetes mellitus on the monocyte-to-lymphocyte ratio and the QuantiFERON-TB Gold Plus assays for tuberculosis treatment monitoring: a prospective cohort study**

- 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.340 **The role of enoxaparin in respiratory virus infections and its therapeutic implications**

- 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**

- 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 commercial laboratory**

Poster Presenter: Hyejin Ryu (Korea, Republic of)

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

- 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)

- I.352 **Circulating exosomes and Ambient Air Pollution exposure in COPD**

- I.353 **Mesenchymal Stem Cells Impact on very severe COPD Patients' Immune System: an Ex Vivo Study**

Poster Presenter: Sanaz Abbaspour-Aghdam (Iran)

- I.354 **Decreased Aryl Hydrocarbon Receptor Gene Expression and Polymorphic Variants Correlate with Increased COPD Risk**

Poster Walk
12:15 - 13:45

Poster Area

Infectious diseases 2

- 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**
- I.357 **Impact of fusion loop mutations in Zika prM/E-based vaccines on immune mechanism of protection**
Poster Presenter: Kantinan Chuensirikulchai (Thailand)
- I.358 **Antibodies against *Aspergillus fumigatus* and *Histoplasma capsulatum* among chronic TB patients in Cote d'Ivoire: a cross-sectional study**
- I.359 **Seroprevalence of Human Parvovirus (HPV-B19) Among Children and Adolescents in Aseer Region, Southwest Saudi Arabia**
Poster Presenter: Ahmed M. Al-Hakami (Saudi Arabia)
- I.360 **Exhaustion on *Leishmania amazonensis* and *Leishmania braziliensis* infection**
- I.361 **Peripheral blood single-cell landscape of tuberculosis patients in the context of disease severity and strain-specific immune memory**
- I.362 **Polymorphism of innate immunity receptors CD33 and CD18 in human diseases**
- I.363 **Frequency of autoantibodies in patients infected by SARS-CoV-2 during the first wave of the COVID-19 pandemic in the CICM laboratory, Mali**
- 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**
- 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**
- I.368 **SARS-CoV-2 vaccines: A double-edged sword throughout rapid evolution of COVID-19**
- 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.372 **EXTRACELLULAR VESICLES AND THEIR ASSOCIATION WITH ANEMIA AND THROMBOCYTOPENIA IN VIVAX MALARIA**
- 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**

I.375 **A Systems Biology Approach for Targeting Intracellular Persistence: Drug Combinations and Host Interactions**

Poster Walk
12:15 - 13:45

Poster Area

B cells

I.119 **The $\alpha 2,8$ -disialyl Motif Modulates B-cell Receptor Signaling**

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

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.124 **Mechanical activation of human B cells on nanoporous substrates engages mechanosensitive ion channels**

Poster Presenter: Dominic Aghaizu (Germany)

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

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

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**

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 Walk
12:15 - 13:45

Poster Area

Blood cells and proteins

- I.099 **Ampicillin Modulation of the main Human Neutrophil Functions: Degranulation and Oxidative Burst**

Poster Presenter: Othman El Faqer (Morocco)

- I.100 **Lymphocyte Phenotype in CD55 Deficiency (CHAPLE Disease): Insights from a Cohort Study**

Poster Presenter: Azzeddine Tahiati (Algeria)

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

- 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**

- I.104 **Glucose availability modulates monocytic myeloid-derived suppressor cell differentiation and immunosuppressive function via p38-c-Myc signaling**

- 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**

- 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**

- I.109 **Genetic and quantitative profile of B-cell activating factor (BAFF) in multiple myeloma**

- I.110 **Impaired Dendritic Cell Differentiation in Multiple Myeloma**

Poster Presenter: Stella Autenrieth (Germany)

- I.111 **Clonal tracking of T-cell acute lymphoblastic leukemia with incomplete TRB D-D rearrangements**

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

Poster Presenter: Sanem Gokcen (Turkey)

- I.113 **The Role of IL-33/ST2 Signalling in Haematopoietic Stem Cell Regulation and Myeloproliferative Neoplasms**

Poster Presenter: Yuning Lu (United Kingdom)

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

- 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 Walk
12:15 - 13:45

Poster Area

Cancer 1

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

Poster Presenter: Mei-Jun Lai (Taiwan)

- I.135 **Leveraging pre-existing immunity against pathogens for enhanced cancer immunotherapy via mRNA vaccines**

Poster Presenter: Jiandong Huang (Hong Kong)

- I.136 **A20 as a novel checkpoint regulator in KRAS-driven lung adenocarcinoma**

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

Poster Presenter: Frauke Hoffmann (Germany)

- I.138 **Inhibition of TRIM16 in tumor cells enhances innate immune activation and reduces cell viability**

Poster Presenter: Jiyeon Ahn (Korea, Republic of)

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

Poster Presenter: Yen-Nien Liu (Taiwan)

- I.140 **Utilizing Human Heavy Chain Ferritin for Targeted Delivery of Venetoclax to Acute Myeloid Leukemia Cells**

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

Poster Presenter: Kaouther Snoussi (Tunisia)

- I.142 **RAB11FIP3 promotes colorectal cancer progression by mediating SLC16A1 endosome recycling to regulate lactate shuttle and maintain tumor immunosuppressive microenvironment**

Poster Presenter: Nuoqing Weng (China)

- I.143 **Adenosine increases PD-L1 expression in mesenchymal stromal cells derived from cervical cancer by interaction with A_{2A}R/A_{2B}R and TGF- β production**

- 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**

I.155 **System biology-based RNA-seq analysis of breast cancer data to identify immune infiltration patterns, survival biomarkers, and miRNA regulators as potential therapeutic targets**

Poster Walk

12:15 - 13:45

Poster Area

Immunity across ages

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

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**

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.302 **Long-Term Effects of Sulfur Mustard Exposure on Accelerated Immunosenescence: Impact on PBMC Senescence Markers, DHEAS Levels, and Oxidative Stress**

Poster Presenter: Tahereh Jamali (Iran)

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**
- I.305 **Revealing the unique features and age-related changes of B cell immunity in the long-lived rodent *Spalax galili***
- I.306 **Single-cell transcriptomic analysis of T-lymphocytes isolated from peripheral blood of HGPS patients**
- 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.310 **Indicators of Cellular and Humoral Immunity Factors in Children Living in the Aral Sea Region**

- 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**

- I.313 **Senescent CD4⁺ T lymphocytes increase in the peripheral blood of patients with TAO**

- 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

- 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.320 **Platelet-Mediated Neutrophil Extracellular Traps (NETs) Exacerbate the Pathogenesis of Diabetic Retinopathy**
- I.321 **EXHAUSTED PRIMARY HUMAN MONOCYTES EXPRESS A PARADOXAL PROFILE, WITH COEXISTING PRO-INFLAMMATORY AND IMMUNOSUPPRESSIVE STATES, PERSISTENT IL-6 PRODUCTION AND SESESCENCE MARKERS**
Poster Presenter: Marcelo Damas (Brazil)
- I.322 **Targeting the PDK/PDH axis modulates neutrophil and smooth muscle cell pathological responses and prevents abdominal aortic aneurysm formation**
Poster Presenter: Andrietta Grentzmann (Denmark)
- I.323 **Targeting glutamine metabolism mitigates Foxp3-deficiency mediated disease**
Poster Presenter: Mohammad Adeel Zafar (United States)
- I.324 **Aryl Hydrocarbon Receptor Deficiency Enhances Glycolysis and Promotes Pro-Inflammatory Macrophage Polarization Under Hypoxia**
Poster Presenter: Saeed Mohammadi (Oman)
- I.325 **Metabolic profile of Calcium-macrophages: Fatty acid consumption is key to differentiation and maturation.**
Poster Presenter: Syamantak Basu (Germany)
- I.326 **Correlation of CX3CL1 with Immunoinflammatory Markers of Metabolic Syndrome: A Case-Control Study**
Poster Presenter: Eli Mohapatra (India)
- I.327 **Ubiquitous calpain activities in human T and B lymphocytes' physiology and pathology**
- 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**
- 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**
- 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 Walk
 12:15 - 13:45

Microbiome and mucosal immunology

- I.376 **Health-associated bacteria species metabolites have a potent immune modulatory effect on STAT-3 pathway**
- I.377 **Sensing threats: unexpected homeostatic mechanisms calibrate gut responses**

Poster Area

Poster Presenter: Gabrielle Belz (Australia)

I.378 **Examining the level of inflammatory cytokines TNF- α and IL-8 produced by osteoblasts differentiated from dental pulp stem cells**

I.379 **Understanding the molecular recognition of *Bacteroides fragilis* glycosphingolipids by natural killer T-cell receptors**

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**

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.386 **Axl-mediated signaling controls cigarette smoke lung inflammation and compromises host immunity during pneumococcal pneumonia**

Poster Presenter: Kamila Guimarães Pinto (Brazil)

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**

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**

I.395 **Colonization of the Preterm Germ-Free Piglets with Infant-Derived Synthetic Microbiota**

Poster Walk
12:15 - 13:45

Poster Area

Cancer 5

I.219 **Anti-Tumor Effects of MicroRNA-34a-Enriched CT-26-Derived Exosomes in a Murine Colorectal Cancer Model**

I.220 **Tumor exosomes with miR-34a induce apoptosis and suppress colorectal cancer progression *in vitro***

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**

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**

I.230 **Characterization of Human Monocyte Subsets in Acute Lymphoblastic Leukemia**

I.231 **Obesity and overweight in R/R DLBCL patients is associated with a better response to treatment. Potential role of NK CD8+ cells and vitamin D**

I.232 **CTLA-4 siRNA-Mediated Apoptosis in TE-8 Esophageal Cancer Cells: A Potential Therapeutic Target in Cancer Immunotherapy**

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		
<i>Poster Presenter:</i> Alka Bhatia (India)		
I.235	Identification of immune cells in PBMCs and tumors from a cohort of Tunisian CRC patients	
I.236	Deleterious role of “bystander” CD8⁺ T cells producing Granzyme K in leukemia progression	
I.237	The Clinical Significance of Alu-Based Cell-Free DNA and Serum Onco-piRNA in Colorectal Cancer	
I.238	Early T cells changes predict the response to CD3xBCMA bispecific antibodies in blood cancer	
<i>Poster Presenter:</i> Nicolas Deredec (France)		
<i>Industry Session</i>		
12:30 - 13:30		Hall M
Industry session		
<i>Industry Session</i>		
12:30 - 13:30		Hall N
Industry session		
<i>Award Lecture</i>		
12:30 - 13:15		Hall L1 & L2
EFIS Life Achievement Award Lecture		
<i>Keynote Lecture</i>		
13:45 - 14:15		Hall A
Establishment of T cell homeostasis in response to food and intestinal microbiota		
<i>Chair:</i> Wilfried Ellmeier (Austria)		
	Establishment of T cell homeostasis in response to food and intestinal microbiota	13:45 - 14:15
<i>Keynote Speaker:</i> Dan Littman (United States)		
<i>Rising Star</i>		
14:15 - 15:00		Hall A
Rising stars		
	Time-resolved tissue immunity over the course of acute and chronic infection	14:15 - 14:25
<i>Rising Star Awardee:</i> Thomas Krausguber (Austria)		
	Deciphering human antibody repertoires against the microbiome in health and disease	14:25 - 14:35
<i>Rising Star Awardee:</i> Thomas Vogl (Austria)		
	A coordinated cellular network regulates intestinal tolerance	14:35 - 14:45
<i>Rising Star Awardee:</i> Ranit Kedmi (Israel)		
	Discussion	14:45 - 15:00
<i>Keynote Lecture</i>		
15:00 - 15:30		Hall A
Stromal regulation of immune cells in health and disease		
	Stromal regulation of immune cells in health and disease	15:00 - 15:30

Keynote Speaker: Shannon Turley (United States)

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)

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)

Presentation by Miriam Merad

16:30 - 17:00

Plenary Speaker: Miriam Merad (United States)

Plenary Lecture

16:00 - 17:00

Hall F1

Primary immune deficiencies

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: 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)

Trafficking of intestinal immune cells into the Central Nervous

17:00 - 17:10

System in homeostasis and autoimmunity*Oral Abstract Presenter:* Carolina Prado (Chile)**Microbiota-induced sensory neuron hyperinnervation exacerbates itch**

17:10 - 17:20

Oral Abstract Presenter: Michel Enamorado (United States)**T cells on the attack: an engineered neuroimmune model of Alzheimer's disease**

17:20 - 17:30

Oral Abstract Presenter: Mehdi Jorfi (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)**Cross tissue organization of the fibroblast lineage**

17:10 - 17:20

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

17:20 - 17:30

Oral Abstract Presenter: Lisabeth Emilius (Austria)*Abstract Session after Plenary*

17:00 - 17:30

Hall F1

Primary immune deficiencies and clinical immunology**First Human Cases of LT β R Deficiency Characterized by Complete Lymph Node Aplasia and Impaired B-Cell Differentiation**

17:00 - 17:10

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:* Ursula Wiedermann (Austria)**Integrative Mapping of Pre-existing Immune Landscapes for Vaccine Response Prediction**

17:00 - 17:10

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 (Mexico)**IgE-independent mast cell activation limits itch-scratch reflex to preserve barrier integrity**

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**Cell lineage decisions in haematopoiesis**

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:* 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:* 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)

Co-stimulatory blockade and 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)

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)

Immunodysregulation 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 IEL 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: Genta Furuya (Tokyo, Japan)

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)

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

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

10:54 - 11:02

receptor for IgE (FcεRI) depend on IgE occupancy and antigen valency	
<i>Oral Abstract Presenter:</i> Birgit Linhart (Austria)	
Characterization of IgE-Producing B Cells in Birch Pollen Allergy: A Focus on Seasonal Immune Responses	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Maria Byazrova (Russian Federation)	
Diagnosis of genuine allergic sensitization to <i>Blomia tropicalis</i> and <i>Dermatophagoides pteronyssinus</i> with micro-arrayed allergen molecules	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Nishelle Dsouza (Austria)	
The adaptive immune response to <i>Staphylococcus aureus</i> serine protease-like protein B reinforces the skin inflammation in patients with atopic dermatitis	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Lennart Roesner (Germany)	
Human mast cells developed in NSG-Tg(hu-mSCF) mice degranulate upon challenge with Bet v 1	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Caterina Vizzardelli (Austria)	
Enhanced & selective priming of allergen-specific IgE B cells in secondary recall response	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Mohammed Zghaebi (Austria)	
Basophils promote the resolution of acute respiratory distress syndrome through IL-4 production	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Kensuke Miyake (Japan)	
Endogenous retroelements promote intestinal homeostasis and tolerance to dietary antigens	11:50 - 11:58
<i>Oral Abstract Presenter:</i> Claudia A. Rivera Cifuentes (United States)	
<i>Abstract Session</i>	
10:30 - 12:00	Hall E1
Effector mechanisms in cancer	
<i>Chair:</i> Nilika Bhattacharya (Phoenix, United States)	
Immunoregulatory double negative B cells suppress cytotoxic T cell function in renal cell carcinoma	10:30 - 10:38
<i>Oral Abstract Presenter:</i> Zara Baig (United Kingdom)	
Tissue-colonizing disseminated tumor cells secrete prostaglandin E2 to promote NK cell dysfunction and evade anti-metastatic immunity	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Anna-Marie Pedde (Germany)	
A new IL-8 humanized mouse model to dissect the role of IL-8 in immunotherapy	10:46 - 10:54
Tissue-Dependent Dichotomy in IL-15 Mediated Anti-Tumor Immunity to Colorectal Cancer	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Marina Yakou (Australia)	
The nuclear receptor NR2F6 acts as a negative regulator of NK cell-mediated tumor immunity	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Johannes Woelk (Austria)	
Elucidating mechanisms by which TRPS1 maintains Treg stability and limits anti-tumor immunity	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Nilika Bhattacharya (United States)	
<i>Akkermansia muciniphila</i> 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)

Extracellular vesicles derived from human Wharton's jelly mesenchymal stem cells mitigate liver fibrosis through phenotype switching of Ly6C^{hi/lo} monocytes and macrophages 11:34 - 11:42

Highly Multiplexed 2D and 3D Imaging Uncovers Leukemia-Induced Immune Dysregulation and Vascular Immaturity in the Bone Marrow Microenvironment 11:42 - 11:50

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

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

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

Discovery of neutralising antibodies against hantaviruses and their cognate epitopes to inform vaccine design 11:34 - 11:42

Abstract Session

10:30 - 12:00

Hall F1

Autoimmune diseases part I

Chair: Fatma Betul Oktelik (Boston, Turkey)

Therapeutic modulation of endoplasmic reticulum amino peptidase 1 (ERAP1) in cancer and autoimmunity 10:30 - 10:38

Oral Abstract Presenter: Samantha Bucktrout (United Kingdom)

Targeted Neutrophil Extracellular Trap (NETs) Inhibition With a Nuclear Penetrating Antibody Reduces Inflammation and Kidney 10:38 - 10:46

Damage in autoimmune vasculitis*Oral Abstract Presenter:* Kim Maree O'Sullivan (Australia)**Crosstalk Between NK Cells and Macrophages in Pemphigus Vulgaris: Implications for Therapeutic Strategies**

10:46 - 10:54

Oral Abstract Presenter: Vishakha Hooda (India)**An integrative immunoinformatics analysis uncovers infectious pathogen and gut microbiome-driven molecular mimicry in Autoimmune Hemolytic Anemia**

10:54 - 11:02

Oral Abstract Presenter: Pratyusha Patidar (India)**Exploring potential of anti-hyperglycemic benefits of BCG vaccine in streptozotocin induced diabetic animal models**

11:02 - 11:10

Oral Abstract Presenter: Sunil Korde (India)**Multi-OMICS based biomarkers for Autoimmune Hemolytic Anaemia and Immune Thrombocytopenia Autoimmune Diseases**

11:10 - 11:18

Oral Abstract Presenter: Tulika Prakash Srivastava (India)**Presence of HLA B27 affects monocyte function in ERA category of Juvenile Idiopathic Arthritis**

11:18 - 11:26

Oral Abstract Presenter: Shivika Guleria (India)**Enhancer RNA m⁶A modification controls SIRP α signaling strength in intestinal macrophages to ensure adequate efferocytosis for inflammation resolution**

11:26 - 11:34

TLR7-9 adaptors TASL and TASL2 mediate IRF5-dependent antiviral responses and autoimmunity

11:34 - 11:42

Oral Abstract Presenter: Manuele Rebsamen (Switzerland)**Therapeutic modulation of myocardial neutrophil polarization prevents cardiomyocyte damage and improves cardiac function in autoimmune myocarditis**

11:42 - 11:50

Oral Abstract Presenter: 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

Oral Abstract Presenter: Nibhriti Das (India)*Abstract Session*

10:30 - 12:00

Hall F2

Vaccine and antibody design*Chair:* Joshua Tobias (Vienna, Austria)**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**

11:02 - 11:10

approach to induce potent mucosal and systemic immune responses to a respiratory syncytial virus subunit vaccine	
<i>Oral Abstract Presenter:</i> Mina Zhiani (Canada)	
Polyepitope tandem mRNA-LNP vaccines present immunogenic potentials for inducing <i>de novo</i> and recall CD8⁺ T cell responses against viruses or tumors	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Hoang Oanh Nguyen (France)	
Poly(allylamine hydrochloride)-based nanoparticles as adjuvants for systemic and mucosal vaccines	11:18 - 11:26
<i>Oral Abstract Presenter:</i> 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
<i>Oral Abstract Presenter:</i> 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
<i>Oral Abstract Presenter:</i> Yu-Chieh Chen (Taiwan)	
<i>Abstract Session</i> 10:30 - 12:00	Hall M
T cell development	
<i>Chair:</i> Ludger Klein (Germany)	
<i>Chair:</i> Yu Gao (Stockholm, Sweden)	
Transcriptional Engineering of CAR-T cells for durable control and checkpoint blockade synergy in solid tumors	10:30 - 10:38
ROLE OF TRANSCRIPTIONAL CO-FACTOR IRF2BP2 IN ACTIVATION AND DIFFERENTIATION OF CD8 T CELLS	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Barbara L. Morais de Oliveira Vieira (Brazil)	
GFI1-driven transcriptional and epigenetic programs maintain CD8⁺ T cell stemness and persistence	10:46 - 10:54
<i>Oral Abstract Presenter:</i> M. Zeeshan Chaudhry (Australia)	
APOBEC2 as a regulator of cell identity within the hematopoietic system	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Christos Gkougkousis (Germany)	
CD4 T cell-derived HBEGF blocks their differentiation into Th17 and prevents autoimmunity	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Kimaya Tekade (Germany)	
Heterogeneity, genetic regulation and tissue specific properties of the thymic antigen presenting cell network	11:10 - 11:18
<i>Oral Abstract Presenter:</i> 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
<i>Oral Abstract Presenter:</i> 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
<i>Oral Abstract Presenter:</i> Pedro Ferreira (Portugal)	
Study of the expressed repertoires of the adaptive immune responses: example of mouse T cell receptors	11:34 - 11:42
<i>Oral Abstract Presenter:</i> Myriam Croze (France)	

The rich tapestry of V62 T cell development in the human thymus		11:42 - 11:50
<i>Oral Abstract Presenter:</i> Stuart Berzins (Australia)		
Thymic development of human invariant Natural Killer T cells		11:50 - 11:58
<i>Abstract Session</i> 10:30 - 12:00		Hall N
T cell activation		
PD-1 and BTLA inhibit T cell activation with and without co-stimulation		10:30 - 10:38
<i>Oral Abstract Presenter:</i> Sofia Bustamante Eguiguren (United Kingdom)		
Defining immune correlates of recurrent TB disease risk for targeted intervention		10:38 - 10:46
DUSP22 deficiency and UBR2 induction promote T-cell signaling and autoimmune disease		10:46 - 10:54
<i>Oral Abstract Presenter:</i> Tse-Hua Tan (Taiwan)		
ETS1 and its partners in molecular control of T cell quiescence		10:54 - 11:02
<i>Oral Abstract Presenter:</i> Jong-Hwi Yoon (Korea, Republic of)		
The serine/threonine kinase PIM3 acts as essential gatekeeper of T cell functions		11:02 - 11:10
<i>Oral Abstract Presenter:</i> Tobias Frey (Austria)		
Manipulating effector and memory fates in CD8+ T Cells: A novel Tpm transitional state and the role of TGF-β		11:10 - 11:18
<i>Oral Abstract Presenter:</i> Veronika Niederlova (Czech Republic)		
Zc3h13 promotes T cell activation through snoRNA-mediated ribosome biogenesis		11:18 - 11:26
<i>Oral Abstract Presenter:</i> Takuya Uehata (Japan)		
Understanding the basis of LAG-3 mediated immune regulation		11:26 - 11:34
Glycocalyx engineering to modulate T cell activation		11:34 - 11:42
<i>Oral Abstract Presenter:</i> Fauzia N. Izzati (Canada)		
Th17 cells require the DNA repair sensor XPC to control oxidative DNA damage		11:42 - 11:50
<i>Oral Abstract Presenter:</i> Jefferson Antonio Leite (Brazil)		
<i>Abstract Session</i> 10:30 - 12:00		Hall L1 & L2
Neuroimmunology		
<i>Chair:</i> Agata Mlynska (Vilnius, Lithuania)		
Immune regulatory Bile Acid Metabolites modulate Central Nervous System Autoimmunity		10:30 - 10:38
<i>Oral Abstract Presenter:</i> 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
<i>Oral Abstract Presenter:</i> 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
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

KChIP3 foster neuroinflammation and synaptic dysfunction in Alzheimer's Disease 11:26 - 11:34

Diurnal coordination of immune processes primes the olfactory bulb's response to an intranasal immune challenge 11:34 - 11:42

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

A B-cell cross-road between systemic and upper respiratory tract immunity 10:46 - 10:54

Oral Abstract Presenter: Eva Piano Mortari (Italy)

The ICOM discovery supports the dissociation activation model (DAM) of B cell activation 10:54 - 11:02

Oral Abstract Presenter: 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

Oral Abstract Presenter: Cristian G Beccaria (Italy)

Multi-step antibody class switching in a primary human response is restricted after IGHG2 and dependent on B cell maturation stage 11:10 - 11:18

Oral Abstract Presenter: Joseph Ng (United Kingdom)

Asparagine availability controls germinal center B cell homeostasis 11:18 - 11:26

Oral Abstract Presenter: Yavuz F. Yazicioglu (United Kingdom)

Anti-viral and anti-commensal antibody repertoires differ across human tissues 11:26 - 11:34

Oral Abstract Presenter: Tomer Hertz (Israel)

Clonal lineage tree analysis in surrogate light chain deficient mice 11:34 - 11:42

reveals the existence of memory B cells in the mouse splenic marginal zone

Oral Abstract Presenter: Ola Grimsholm (Austria)

Immunological memory in a teleost fish: common carp IgM⁺ B cells differentiate into memory and plasma cells

11:42 - 11:50

Oral Abstract Presenter: Justin Tze Ho Chan (Austria)

Polyreactive IgA's pattern recognition selectively inhibits the folate cycle of pathogenic bacteria

11:50 - 11:58

Oral Abstract Presenter: Genta Furuya (Japan)

Poster Walk
12:15 - 13:45

Poster Area

Allergy

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

II.006 Clinical Relevance of Immunologic Diagnosis of Shrimp Allergy in Adults

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

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**

II.016 **Immunophenotyping of T Helper Cell Subsets in Chronic Rhinosinusitis Patients Undergoing Dupilumab Treatment**

II.017 **Comparison of natural and recombinant forms of allergens for allergy diagnosis**

Poster Presenter: Caroline Rohner (Austria)

II.018 **CLINICAL FEATURES OF STEVENS-JOHNSON SYNDROME AND TOXIC EPIDERMAL NECROLYSIS IN AN ORIGINAL RETROSPECTIVE STUDY**

Poster Walk
12:15 - 13:45

Poster Area

Antigens and antibodies

II.019 **Evidence that IgE epitopes of the major dog allergen Can f 2 are conformational**

Poster Presenter: Alexandra Dubovets (Russian Federation)

II.020 **TRIM29 modulates radiation resistance of Langerhans cells in antitumor immunity**

Poster Presenter: Ao Zhang (China)

II.021 **Differential expression of TIM-3 in distinct bladder cancer molecular subtypes**

Poster Presenter: Pouya Ghanbari (Iran)

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**

II.026 **The regulation of MHC-I antigen presentation pathway by cooperation of NLRC5 and IRF1**

II.029 **Evaluation of CD154 as a molecular immuno-adjuvant in CSF E2 subunit vaccine**

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.032 **Innovative Strategies in Nasal Vaccination Against Respiratory Infections: Insights from the Razi Cov Pars vaccine**

II.033 **A germinal center checkpoint of AIRE in B cells limits antibody diversification**

Poster Presenter: Kang Chen (United States)

II.034 **Innate and adaptive immune response of human cells against *Mycobacterium bovis* BCGΔBCG1419c, a tuberculosis vaccine candidate**

Poster Presenter: Edwin Uriel Rojas Valles (Mexico)

II.035 **Advancing Antivenom Development: Epitope Identification and ScFv Design Targeting Losac Toxin for Effective Neutralization of *Lonomia* Caterpillar Venom**

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**

II.038 **Development of next-generation measles-vectorized vaccines against Orthopoxviruses**

Poster Walk
12:15 - 13:45

Poster Area

Cytokines

II.235 **Diabetes-Induced CD8⁺ T Cell Dysfunction and an Exacerbated Cytokine Response in patients and in an experimental model of parasite infection**

Poster Presenter: Gastón Bergero (Argentina)

II.236 **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.238 **Associations of a NLRP3 rs10754558 Polymorphism with *Helicobacter pylori*-Infected Patients with Gastritis and Peptic Ulcer Disease**

II.239 **Soluble PD-L1 is antagonistic *in vitro* and *in vivo***

II.240 **Targeting interleukin-1 receptor accessory protein for selective cytokine-based therapy of inflammatory diseases**

II.241 **Dysregulated Cytokine Profiles Associated with Interleukin-17A Suppression in B-Cell Acute Lymphoblastic Leukemia**

II.242 **The Effects of Retinoic acid (RA) on Hedgehog Signaling and Macrophage Polarization in an Inflammatory Liver Fibrosis Model Using TGF-β-Activated hepatic stellate cells**

II.243 **Uncovering the role of CMTM4 in IL-17RC trafficking**

Poster Presenter: Tijana Trivic (Switzerland)

II.244 **Elevated Expression of BAFF, Granzyme B, and Perforin and Their Association with Chronic Antibody-Mediated Rejection in Renal Transplant Recipients**

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**

II.247 **FEATURES OF THE INTERFERON SYSTEM IN CHILDREN BORN TO MOTHERS WHO SUFFERED FROM COVID-19**

Poster Presenter: Shakar Navruzova (Uzbekistan)

II.248 **THE ROLE OF CYTOKINES IN CHILDREN WITH CHOLESTATIC SYNDROME**

Poster Presenter: Shakar Navruzova (Uzbekistan)

II.249 **FEATURES OF IMMUNOLOGICAL AND HORMONAL FACTORS IN ADOLESCENT GIRLS WITH MENSTRUAL CYCLE DISORDERS**

II.250 **IMMUNOLOGICAL PARAMETERS IN WOMEN WITH OVARIAN FORM OF HYPERANDROGENISM**

II.251 **Immunological and Metabolic Changes in Patients with Type 2 Diabetes Mellitus after COVID-19**

II.252 **DIAGNOSTIC SIGNIFICANCE OF SERUM CHEMOKINES IN THE PATHOGENESIS OF ADENOMYOSIS**

Poster Walk

12:15 - 13:45

Poster Area

Infectious diseases 1

II.312 **Proteomic and transcriptomic profiling unveil a type I interferon-driven immune response in *Brucella abortus*-infected macrophages**

II.313 **Factors affecting spontaneous clearance of viral hepatitis infections**

Poster Presenter: George Kamkamidze (Georgia)

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**

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**

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.321 **Deciphering the NLRC5-MHC-I Axis in HTNV-Induced CD8⁺T Cell Dysfunction: A Mechanistic Insight into HFRS Pathogenesis**

- 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**
- II.325 **Human alveolar macrophage function is impaired in tuberculosis contacts with diabetes**
Poster Presenter: Katharina Ronacher (Australia)
- II.326 **In Vitro and In Silico Investigation of the Immunomodulatory Effects of Xanthatin as a Tryparedoxin Peroxidase Inhibitor in *Leishmania major***
- 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**
- 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. Eismayr (United States)
- II.330 **Berry e-cigarette vapour impair alveolar macrophage mobility and infection clearance**
- 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

Cancer 1

- 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.139 **Identification of PD-L1+ B cells in Non-Small Cell Lung Cancer (NSCLC) and investigation of molecular mechanisms of their effect on antitumoral response**

Poster Presenter: Oğuzhan Köse (Turkey)

- 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.143 **Combination effect of killer cell immunoglobulin-like receptors (KIRs) and their cognate HLA class I ligands on susceptibility to acute leukemia in Iranian patients**

- II.144 **The tumor microenvironment of germinal center-derived lymphoma contains cytotoxic CD4⁺ T-follicular cells**

- 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.148 **The relationship between Foxp3 rs3761548 polymorphism and TGF- β level reveals insights into gastric cancer pathogenesis**

- II.149 **Cyp27a1-driven metabolic control in macrophages subverts tumor immunity**

- 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

Autoimmunity 3

- 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**

- 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.083 **Elevated Interleukin-21 expression is correlated with systemic sclerosis' severity in Tunisian patients**
- II.084 **Liver Immunologic Tests: From Homeostasis to Disease**
- II.085 **c-Maf Controls IL-21-triggered ROR γ t Tregs Programming Featured with Enhanced Suppressive Capacity to Ameliorate Autoimmune Encephalomyelitis**
- 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**
- II.090 **Studying the role of adipose tissue in intestinal inflammation using acquired generalized lipodystrophy**
- 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.094 **Dimethyl Fumarate suppress inflammasome pathway in fibroblast like synoviocytes cells of patients with rheumatoid arthritis**
- II.095 **MIF Inhibition Combined with Glucocorticoid Treatment Ameliorates Myocarditis and Prevents Progression to Dilated Cardiomyopathy**
- II.096 **Spatially restricted clonal expansion along with cytotoxic and Th1 phenotypes characterizes the T cell immune landscape of atherosclerotic plaques**
- 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

Autoimmunity 2

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**

II.060 **A holistic approach towards understanding autoantibodies landscape and its application in precision health**

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)**

II.063 **Dual faces of pediatric inflammation: PFAPA meets Henoch-Schönlein purpura**

II.064 **OPTIMIZATION OF DELIVERY AND PRESENTATION OF THERAPEUTIC ANTIBODIES IN *SACCHAROMYCES BOULARDII* FOR ULCERATIVE COLITIS TREATMENT**

II.065 **Interferon- α promotes HLA-B-restricted presentation of conventional and alternative antigens in human pancreatic β -cells**

II.066 **IL-7R α on peripheral CD4⁺ T cells is required for their survival and the pathogenesis of experimental autoimmune encephalomyelitis**

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.070 **Association of the lymphoid tyrosine phosphatase R620W variant with inflammatory bowel disease in Tunisian patients**

II.071 **Anti-dsDNA Reactive B-cells are Activated Through the Extrafollicular Pathway in Systemic Lupus Erythematosus**

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**

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 Walk
12:15 - 13:45

Poster Area

B cells

- II.116 **INPP5K Shapes B Cell Fate: A Key Link to the SMN Complex**

- II.117 **Human B-cell development at the single-cell level**

Poster Presenter: Timothy Sundell (Sweden)

- II.118 **Does the characterization of the B cell repertoire in African populations at multiple time points better reflect the overall B cell repertoire diversity?**

- II.119 **IL-7 receptor signaling drives human B-cell progenitor differentiation and expansion**

- 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**

- II.122 **Heterologous immunization promotes IgM memory B cells, essential for mucosal immunity**

Poster Presenter: Poorya Foroutan Pajoohian (Iceland)

- II.123 **31-parameter spectral flow cytometry panel for immune phenotyping of B and T cell responses**

Poster Presenter: Kassandra Hoetzel (Germany)

- II.124 **SARS-CoV-2 infection versus COVID-19 mRNA vaccination-induced Spike-specific memory B cells: frequencies, Ig class and subclass usage, cross-reactivities, and affinity distributions**

Poster Presenter: Greg Kirchenbaum (United States)

- II.125 **Intrinsic effect of SENP2-mediated SUMO regulation in germinal center function and immune response**

- II.126 **Impact of early measles immunization on memory B cell frequency and functionality**

Poster Presenter: Maaike van der Staak (Netherlands)

- II.127 **Comparing the diagnostic specificity of flow cytometry-based probe staining and ELISPOT for detection of SARS-CoV-2 Spike-reactive memory B cells using defined cohorts of human PBMC**

Poster Presenter: Georgia Stylianou (United Kingdom)

- II.128 **Deciphering the function of glutaminyl-peptide cyclotransferase-like protein (QPCTL) in plasma cells**

- II.129 **Surprisingly High Sequential Isotype Switch in Peripheral Blood IgA⁺ Memory B-cells**

- 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

NK and other ILCs

II.416 **DNAM-1 exacerbates intestinal inflammation by activating ILC3 via the Akt/mTORC1/HIF-1 α signaling pathway**

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**

II.427 **The role of serine/threonine kinase 38 in natural killer cells**

II.428 **Adaptive NK Cell Development in an Altered Landscape Following Hematopoietic Stem Cell Transplantation**

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**

II.433 **Natural killer cell exhaustion and dysfunction as a hallmark of the inflammation in Still's disease**

Poster Walk
12:15 - 13:45

Poster Area

Mixed topics 1

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: Sunkyung Jung (Korea, Republic of)

II.358 **Next-Level Efficiency: StraightFrom Spleen Isolation Kits - Standardizing Isolation of Untouched B cells with Minimal Hands-On Time**

Poster Presenter: Anna Baranska (Germany)

II.359 **An Agent-Based Model for Simulating CD4+ T Cell Differentiation and Immune Response Dynamics in Autoimmune Diseases and Therapeutic Interventions**

II.360 **Influence of HLA-B Leader (-21M/T) Dimorphism along with Bw4 Epitopes on Graft versus Host Disease after Hematopoietic Cell Transplantation**

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.364 **Influence of autologous extracellular traps (ETs) on immune synapses in human leukocyte cultures challenged with heterologous ovalbumin antigen (OVA)**

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.367 **The Immune-Senescence Link in Hepatocellular Carcinoma: BIRC5 as a Key Player**

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**

II.373 **The Sugar Language of Immunology: Glycosylation-Related Biomarkers for Severity Stratification in Post-Infectious Chronic Fatigue Syndrome**

Poster Walk

12:15 - 13:45

Poster Area

Mixed topics 2

II.374 **ALKBH5-mediated RNA m⁶A demethylation epigenetically orchestrates innate immunity in host-pathogen interactions**

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**

II.382 **Effects of electrophilic drugs and natural products on the spectrum of pro- and anti-inflammatory genes induced by cytokines and PAMPs**

II.383 **Commensal bacteria sensed by memory CD8⁺ T cells impede antigen-specific CD8 responses by inducing NO synthesis in antigen-presenting cells**

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**

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)

II.390 **Cell-derived matrixes as versatile tissue models for immune cell migration studies**

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**

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

Cancer 2

II.152 **Prognostic Value of Pro- and Anti-Inflammatory Cytokines in Colorectal Cancer**

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.155 **Integration of single-cell RNA and protein data identifies distinct, clinically-relevant CD103⁺ CD4⁺ follicular like cell phenotypes in breast cancers**

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 **In vitro and in vivo anticancer activity of mebendazole in colon cancer: a promising drug repositioning**

- II.164 **Promising anticancer activity of cromolyn in colon cancer: in vitro and in vivo analysis**

- II.165 **Clinical implications of non-chromosomal neoantigens**

- 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)**

- 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**

- II.170 **TGF β as a major contributor to TAN pathogenicity and drives ICB resistance in MASH-HCC**

- 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

Immunity to bacteria

- 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**
- 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**
- II.297 **Antibacterial effects of coniferyl alcohol-derived dehydrogenation polymer on chlamydial infection in vitro**
- II.299 **CSF-1R blockade to mitigate azithromycin-induced immunosuppression during intracellular *Shigella flexneri* infection**
Poster Presenter: Reena Agrawal-Rajput (India)
- II.300 **ADP-heptose attenuates *Helicobacter pylori*-induced dendritic cell activation**
- 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**
- 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**
- II.309 **Investigating the roles of two newly characterized immune-induced peptides, IbinA and IbinB, in the fruit fly *Drosophila melanogaster* model**
- II.311 **Study on the Role and Mechanism of the C3a/C3aR Axis in *Salmonella* Enteritidis Induced Enteritis in Mouse**

Poster Walk
 12:15 - 13:45

Poster Area

Blood cells and proteins

- 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**

- 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**

- 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**

- 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**

- II.110 **Alveolar macrophage pool remodulated by immunization to provide rapid and long-lasting protection**

- II.111 **The immunomodulatory role of quercetin in type 3 chemokine expression**

- 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**

- 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

Neuroimmunology

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**

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.398 **The Impact of Anti-CD20 Antibody on Inflammation and Histopathological Changes in a Rat Model of Photothrombotic Ischemic Stroke**

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**

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**

II.406 **The Impact of Chronic Social Stress and Oxytocin on Inflammatory Cytokine Levels and Corticosterone in Rats**

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**

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**

- 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**

- II.414 **Astrocytes: Regulators of the immune response during central nervous system tuberculosis**

- II.415 **Th17/Treg axis infiltration of the blood brain barrier**

Poster Walk
12:15 - 13:45

Poster Area

Novel immunomodulation therapies

- II.434 **Therapeutic potential of a pyridine-based IRAK4 inhibitor against autoimmune diseases through modulation of innate immunity**

- II.435 **Re-educating the immune system in iTTP: autoantigen-loaded PS-liposomes to induce self-tolerance**

- 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**

- 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***

- 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 Gavriluc (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**

- II.445 **Flow Cytometry Illuminates Dental Stem Cells: a Systematic Review of Immunomodulatory and Regenerative Breakthroughs**

Poster Presenter: Robert Stieger (Austria)

- II.446 **Functionalized nanodiamond particles modulate immune responses**

through dendritic cells and regulatory T cells

- II.447 **Engineered cytokine/antibody fusion proteins confer cancer or autoimmune disease protection through selective expansion of specific immune cell populations**
- 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**
- II.450 **Nutritional-Mediated Modulation of Intestinal Integrity and Immune Response in Weaned Piglets through Heat-Killed *Mycobacterium manresensis* Supplementation**

Poster Walk
12:15 - 13:45

Poster Area

Cancer 3

- 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.176 **The effect of different doses of paclitaxel on the activity and level of NKG2D expression of NK cells isolated from patients with breast cancer**

Poster Presenter: Abdolkarim Sheikhi (Iran)

- II.177 **CCR8-targeted T regulatory (Treg) modulation synergizes with TIGIT blockade across regulatory, effector, and stromal compartments in lung cancer**

- II.178 **COMPREHENSIVE IMMUNOLOGICAL PROFILE OF COLORECTAL CANCER PATIENTS**

- II.179 **Patient study reveals an induction of effector MAIT1 at the expense of effector MAIT17 cells in pancreatic ductal adenocarcinoma**

- 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**

II.185 **Targeting mitochondria to enhance epigenetic therapy in acute myeloid leukaemia**

Poster Presenter: Annika Seddon (New Zealand)

II.186 **Cholinergic system modulation of glioblastoma and immune microenvironment: interplay with TSLP as a novel therapeutic axis**

II.187 **IL-7 cytokine therapy promotes antitumor responses of immunotherapies through regulation of CD8⁺ tumor-infiltrating lymphocytes**

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**

II.190 **Single-Cell Profiling Reveals CD163 and THBS1 as Crucial Modulators of CD4⁺ T Cell Dysfunction in Colorectal Cancer**

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

Cancer 4

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**

II.196 **Foamy CD68⁺ TAMs as indicators of dynamic intratumoral immunometabolism in prostate cancer**

II.197 **Benchmarking bulk RNA-seq immune cell deconvolution in breast cancer tissue**

Poster Presenter: Hatice Toprak Dogramaci (Norway)

II.198 **Simultaneous inhibition of WNT/ β -catenin and TGF- β signaling pathways by IWP-2 and SB431542 small molecules in order to reduce cancerous potential of hepatocellular carcinoma cell line**

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**
- 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**
- II.203 **GM-CSF-producing ROR γ t ILC3 accumulated in human CRC and correlated with Tertiary lymphoid structure-associated cell types**
- II.205 **Expression of the switch receptor PD1/IL15 in MSLN-CAR T cells overcomes PD1/PDL1 signaling in the immunosuppressive tumor microenvironment**
- II.206 **Efficacy of intrathecal injection of allogeneic natural killer cells in high-grade brain tumors (an interim analysis)**
- 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.210 **Nature's nanoparticles reprogrammed: miRNA-124-enriched exosomes unleash immune attack on CT-26 tumors**
- II.211 **Mechanistic Insights into CAR-T Cell Functionality: Comparing Cell Surface and Intracellular-Derived Targets for Enhanced Cancer Immunotherapy**
- II.212 **Immunoregulatory roles of DANCR in Immune Evasion and Poor Prognosis in Melanoma**
- 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

T cells 1

- II.488 **Development of Heterologous PD-1 Based DNA Vaccines Eliciting Robust Tissue-Resident CD8 $^{+}$ T Cell Immunity Against HIV-1 Gastrointestinal Reservoirs**
- 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**
- II.491 **Investigating the regulatory potential of human CD8 $^{+}$ HLA-DR $^{+}$ CD45RC $^{-}$ T cells**
- 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**

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**

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**

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**

II.502 **Nuclear receptor corepressor 1 controls regulatory T cell subset differentiation and effector function**

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

COVID

II.524 **Aryl hydrocarbon Receptor Dysregulation and Its Correlation with Immunomodulatory Markers in COVID-19 Patients**

II.525 **Evaluation of interferon responses upon agonistic stimulation of Toll-like receptors (TLRs) expressed by T lymphocytes in coronavirus disease 2019 (COVID-19) patients**

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**

II.528 **Treatment effectiveness and safety of tocilizumab in severely ill COVID-19 patients**

- 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.532 **Impact of the IL6-174G/C polymorphism on COVID-19 severity in the Iranian population: A case-control study**
- 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.534 **The expression of membrane/soluble IL-6R (interleukin-6 receptor) and polymorphism rs2228145 of IL-6R gene in patients with COVID-19: A Multi-Center Study**
- II.535 **Binding properties of SARS-CoV-2 N-protein to heparan sulphates and inflammatory effects induced by its immune complexes**
- II.536 **EFFECTS OF THE COVID19 INFECTION IN THE IFN-GAMMA SIGNALING PATHWAY**
Poster Presenter: Velia Veronica Rangel Ramírez (Mexico)
- II.537 **Divergent inflammatory and neurology-related plasma protein profiles in individuals with long COVID following primary and breakthrough SARS-CoV-2 infections**
- II.538 **Broadening of Antibody Neutralization capacity Against Seven SARS-CoV-2 Variants Over Time in Cameroon**
- 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.540 **Immunization Response to SARS-CoV-2 Antigens in non-obese Diabetic Goto-Kakizaki rats**
- 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.543 **Assessing mRNA expression and DNA methylation status of Immune checkpoints in COVID-19 patients: A Comparative Study**
- 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

Viruses

- II.546 **Antibody responses targeting different epitopes on dengue envelope protein: implications for protection and pathogenesis**

Poster Presenter: Sokchea Lay (Cambodia)

- II.547 **Recombinant antigen fused to vaccinia virus B5 improves antigen-specific humoral responses by MVA vaccines**

- II.548 **Evaluation of circulating CD4⁺CD25⁺CD127^{-low} regulatory T cells in newly diagnosed hepatitis C-infected patients**

- 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.550 **Immunological characterization in human lung epithelial cells line of a new isolated strain of Andes virus involved in person-to-person transmission, ARG-Epuyén, in Argentina**

- 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**

- II.554 **Long-term Antibody Responses to Ebola Virus and the Vaccine Vector after rVSV-ZEBOV Vaccination in DRC**

- II.555 **Glutamate exporter xCT promotes cGAS-dependent anti-viral responses**

- II.556 **INFECTIOUS INTERACTIONS: HOW EPITHELIAL CELLS DETERMINE THE OUTCOME OF RESPIRATORY VIRAL INFECTIONS IN CONCERT WITH ACTIVATED MONOCYTE-MACROPHAGE RESPONSES**

- II.557 **Development of a Novel Adenoviral Vector-based Universal Influenza Vaccine that Provides Protection Against seasonal and Potential Pandemic Influenza Viruses**

- II.558 **Evaluating the immune response to Epstein-Barr virus in young transgender people**

Poster Presenter: Jonatan Leffler (Australia)

- II.559 **Optimizing Vaccine Potency Evaluation: Integrating Indirect and Sandwich ELISA with Mathematical Modeling to Minimize Animal Use**

- II.560 **The interaction between immune Cells and tissue repair proteins upon influenza virus infection**

- II.561 **Significance of T cell lymphopenia and infection of the thymus in viral infections**

- 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**

- II.565 **Durability and functional profile of T cell responses to SARS-CoV-2 after multiple vaccinations in people living with HIV**

- II.566 **Interplay of Inflammasome and Type-I Interferon responses during *de-novo* HSV-2 infection in HPV-16 harboring SiHa cells with implications on cervical cancer microenvironment**

Poster Presenter: Aditya Goel (India)

- 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

- II.469 **Unraveling the anti-fibrotic/anti-inflammatory potential of iPSCs through PI3K/AKT pathway modulation**

- II.470 **Exosomal influence on macrophage polarization: Insights into the immunopathogenesis of adult-onset still's disease**

- 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**

- 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**
- 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**
- 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**
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
- T cells 2**
- II.506 **Chemically-induced protein degradation reveals inflammation-dependent requirement for Treg lineage-defining transcription factor FOXP3**
Poster Presenter: Joris van der Veecken (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**
- II.509 **The impact of FOXP3⁺ regulatory T Cells in the development of anti-factor VIII antibodies (inhibitors) in patients with severe hemophilia A**
- 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**

12:15 - 12:19

Poster Area

Poster Presenter: Gianmarco Spata (Germany)

- II.513 **Re-define CD8⁺ regulatory T cells through antigen specificity analysis**
- II.514 **Sequential plastic and terminal tolerogenic states limit T cell responses to ingested antigen**
- II.515 **Renal Treg instability in a preclinical model of hypertension**
- II.516 **TNF-signaling facilitates a non-canonical pathway for thymic Treg cell development**
- 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 **Pediatric Trends in Mycoplasma pneumoniae Immunoglobulin M Positivity (2022-2024): Data from a Korean Referral Laboratory**

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**

- 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

Immunity across ages

- 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**
- II.274 **Metabolic dysregulation underlies lymph node stromal aging and loss of functional T cell immunity**
- II.275 **Effect of punicalagin on the viability of bovine mononuclear cells**
- II.277 **Offspring immunity is altered by maternal SARS-CoV-2 infection**
- II.278 **Distinct Regulation of Type 1 Interferon Responses in Neonates Compared to Adults**
- 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**

- II.284 **The impact of preterm birth on the maturation of monocytes in the first year of life**

Poster Presenter: Pia Grundschoettel (Germany)

- II.285 **Age-Dependent Trajectories of Antigen-Specific IL-17 and IL-22 Responses in Naïve T Cells**

Poster Presenter: Katrin Vogel (Germany)

- II.286 **Coordinated Treg-Bacteria-IgA components in human colostrum**

- II.287 **TREM2-induced dysregulation of intestinal resident macrophage homeostasis drives neurogenic dysfunction in the lower esophageal sphincter: insights into achalasia pathogenesis**

Poster Presenter: Ke-Hao Wang (China)

- 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: Aleksey Frolov (Germany)

- II.290 **Neuroinflammation during influenza A infection**

Poster Walk
12:15 - 13:45

Poster Area

Clinical immunology

- 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-κB* 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**

- II.217 **A 5-year-old boy with combined immunodeficiency and an NHEJ1 mutation, presenting with pancytopenia, A Case report**

- II.218 **Phenotypic and functional immune alterations in patients bearing urea cycle disorders**

Poster Presenter: Rubén Darío Motrich (Argentina)

- II.219 **Post-transplant anti-HLA donor-specific antibodies (DSAs) in kidney recipients and their association with humoral rejection**

- II.220 **miR-6089 may prevent the inflammatory events leading to cardiovascular disorders in RA patients**
- 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.225 **Cutaneous Manifestations in Primary Immunodeficiency Disorders: Diagnostic and Clinical Perspectives**
- II.226 **Bone Marrow Failure Manifestations in Primary Immunodeficiency Disorders**
- II.227 **Interferon-related signature assessment in Aicardi-Goutières syndrome patients demonstrates involvement of additional inflammatory pathways**
- II.228 **Targeting *Candida* spp. with a Nanostructured Mannose-Binding Lectin: A New Antifungal Approach**
- II.229 **Health Quality and Treatment Satisfaction in IEI Patients; Not only IgRT but Comorbidities**
- II.230 **The role of autophagy in the development of obesity in a cohort of young adults from 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.233 **The impact of new malaria control strategies on the epidemiology and humoral immune response to malaria in Benin**
- 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

Primary and secondary immunodeficiency

- II.451 **Exploring the Molecular Mechanisms Behind Skeletal Abnormalities in STAT3 Loss-of-Function Hyper-IgE Syndrome**
- II.452 **Epidemiology of hereditary angioedema in the Republic of Kazakhstan**
- II.453 **Epidemiology of congenital immune system defects in the Republic of Kazakhstan**
- II.454 **Comparative study of CD107a and perforin expression in NK cells and cytotoxic T lymphocytes of Iranian patients with primary HLH**

due to various mutations

- II.455 **Defective IL-21 production in PGM3 deficient patients is associated with IgE preferential switching**
- II.456 **Finding NEMO's special role in Inborn Errors of Immunity**
- II.457 **Pregnancy in Patients with Common Variable Immunodeficiency**
Poster Presenter: Ozgur Kartal (Turkey)
- II.458 **IFIH1 Mutation in a Case of Primary Immunodeficiency Presenting with EBV-Related Lymphoproliferation and GLILD: Singleton-Merten Syndrome**
- II.460 **Evaluation of a Rapid Screening Test for IgG Deficiency in Primary Immunodeficient Patients**
- II.461 **Phenotypic and Functional Characteristics of a Novel IRF8 Variant**
- II.462 **Duodenal T cell Profiling in Patients with Primary Antibody Deficiencies: Associations with Enteropathy**
- 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**
- II.465 **A Novel Dominant-Negative CARD11 Variant Causes Atopy and Immunodeficiency Syndrome**
- II.466 **Effect of COVID-19 pandemic to health-related quality of life in patients with primary and secondary immunodeficiencies**
- II.467 **Synaptoimmunology: are all the synapses the same?**
- II.468 **Two Faces of Artemis: Severe Combined Immunodeficiency Presenting with Different Clinical Features**

Poster Walk
 12:15 - 13:45

Poster Area

Autoimmunity 1

- 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.043 **Mesenchymal stem cell-based indirect immunofluorescence assay for antinuclear antibodies for diagnosis of connective tissue disease**

- 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.045 **Peripheral PD-1 Expression in Patients with Vitiligo**

- II.046 **AI machine learning reveals the novel gene UHRF1P as a biomarker for systemic lupus erythematosus and an inhibitor of UHRF1 E3 ligase**

- 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.048 **Deficient miR-10a Orchestrates Treg Dysfunction and Promotes Cytokine Imbalance in Multiple Sclerosis**

- II.049 **High Prevalence of aCL-IgA and a β 2GPI-IgA in Drug-Free Schizophrenia Patients: Evidence of a Potential Autoimmune Link**

- II.050 **Multi-modal interrogation of autoimmune disease patients reveals highly diverse biomarker signatures**

Poster Presenter: Olha Novokhatska (Germany)

- II.051 **Differential in vitro effects of serum mediators from Systemic Sclerosis and VEDOSS patients on endothelial cells**

- II.052 **Ly6C⁺FN1⁺ macrophages as a gatekeeper for psoriasis**

- II.053 **Fc receptors-bearing ITAM motif act as a switcher of cell activation: A potential therapeutic target during inflammatory diseases**

- 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**

- 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 **The SUB1-DOCK2 Axis Dictates Autoimmunity by Modulating the Migratory Capacity of Self-Reactive CD4⁺ T Cells**

Poster Walk
12:15 - 13:45

Poster Area

Genetics and bioinformatics

- II.253 **Deep Single-Cell Profiling Reveals Detailed Characterization of T-cell Subpopulations**

- II.254 **Application of the hanging drop method to Raman Spectroscopy and Surface-Enhanced Raman Spectroscopy (SERS) to recording spectres of the metabolites of circulating immune cells**

- 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.257 **Clonal analysis of mixed cell populations as an alternative to flow cytometry for epigenetic cellular identity**II.258 **Identification of critical cellular factors during infection by neurotropic arboviroses through screening with CRISPR-Cas9 libraries**II.259 **Suppression of the rhinovirus infection *in vitro* by synthetic small interfering RNAs**II.260 **Using amplicon sequencing to measure human Treg-specific DNA methylation patterns***Poster Presenter:* Tamara Kaufmann (Germany)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**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**II.267 **Identification of pro-tumoral pathways in PBMC of prostate cancer patients**II.268 **-786T/C Endothelial nitric oxide synthase gene polymorphism in childhood acute leukemia***Poster Presenter:* Nidel Benhalilou (Algeria)II.269 **ENHANCING CRISPR GENE CORRECTION IN HEMATOPOIETIC STEM/PROGENITOR CELLS**II.271 **Complement genetics in renal pathologies***Poster Walk*
12:15 - 13:45

Poster Area

Infectious diseases 2II.332 **Deciphering the traits of human immune response to Japanese Encephalitis virus in different disease outcomes**II.333 **Identification of *Schistosoma haematobium* and *Schistosoma mansoni* linear B-cell epitopes with diagnostic potential using in silico immunoinformatic tools and peptide microarray technology**II.334 **Investigating the role of Cysteinyl leukotriene receptor 2 signalling during cutaneous Leishmaniasis***Poster Presenter:* Rebeng Maine (South Africa)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.338 **Effects of the innate immune response of human peripheral blood mononuclear cells (PBMCs) to soluble antigens of *Leishmania* spp. (Kinetoplastida: Trypanosomatidae)**
- II.339 **Interleukin-27 receptor-alpha and Epstein-Barr virus-induced gene 3-deficient mice display differential susceptibility to *Mycobacterium tuberculosis* infection**
- II.340 **Can impaired immunological control of *Trypanosoma cruzi* parasitism drive progression to severe Chagas disease cardiomyopathy?**
- II.341 **Severity-specific gene signatures stratify patients with 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.343 **Designing germline-targeting HCV E2 variants to elicit broadly neutralizing antibodies**
- 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**
- II.348 **Deficiency of IRF3 promotes a beneficial neutrophil response to severe pulmonary bacterial infection**
Poster Presenter: Heng Li (Singapore)
- II.349 **Detection of LRV2-positive *Leishmania* Parasites in the north-central part of Iran**
- II.350 **Outer membrane vesicles of *Klebsiella pneumoniae* decrease bactericidal properties of alveolar macrophages**
- 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
Industry session

Hall E1

Award Lecture

12:30 - 13:30

Hall N

Acteria Awards: itching news from IgE and IELs to neuronal circuits*Industry Session*

12:30 - 13:15

Room 1.34

Industry session*Editors' Panel*

13:45 - 15:15

Hall A

Meet the Editors*Panellist:* Ursula Weiss (United States)*Panellist:* Ching-yu Huang (China)*Panellist:* Laurie Dempsey (United States)*Panellist:* Alexandra Flemming (United States)*Panellist:* Cheri Sirois (United States)*Panellist:* Lucie Laurien (Netherlands)*Panellist:* Sarah Ross (United Kingdom)*Panellist:* Seth Scanlon (United Kingdom)*Symposium*

13:45 - 15:15

Hall E1

Metabolic regulation of immune responses*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)**Metabolic regulation of T cell responses**

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 health priorities and challenges faced by each region.**

14:15 - 14:35

Symposium Speaker: Guillermo Docena (Argentina)*Symposium Speaker:* Taruna Madan (India)*Symposium Speaker:* Tineke Cantaert (Cambodia)*Symposium Speaker:* Tomabu Adjobimey (Benin)

Dialogue for the future and opening new approaches		14:35 - 15:15
<i>Symposium Speaker:</i> Sawsan Feki (Tunisia)		
<i>Symposium Speaker:</i> Tomabu Adjobimey (Benin)		
 <i>Symposium</i> 13:45 - 15:15		Hall F1
Respiratory immunology		
<i>Chair:</i> Hans-Uwe Simon (Switzerland)		
<i>Chair:</i> Wuji Zhang (China)		
Harnessing barrier to prevent hypersensitivity diseases		13:45 - 14:10
<i>Symposium Speaker:</i> Cezmi Akdis (Switzerland)		
Bronchial Asthma - from mechanism to therapy		14:10 - 14:35
<i>Symposium Speaker:</i> Harald Renz (Germany)		
Eosinophils and disease		14:35 - 15:00
<i>Symposium Speaker:</i> Hans-Uwe Simon (Switzerland)		
Panel discussion		15:00 - 15:15
 <i>Symposium</i> 13:45 - 15:15		Hall F2
Regulation of central and peripheral tolerance		
<i>Chair:</i> Claudia A. Rivera Cifuentes (Bethesda, United States)		
The co-inhibitory receptor TIGIT promotes tissue protection and repair		13:45 - 14:10
<i>Symposium Speaker:</i> Nicole Joller (Switzerland)		
Determinants of central T cell tolerance		14:10 - 14:35
<i>Symposium Speaker:</i> Ludger Klein (Germany)		
Regulatory B cells in autoimmunity		14:35 - 15:00
<i>Symposium Speaker:</i> Claudia Mauri (United Kingdom)		
Panel discussion		15:00 - 15:15
 <i>Symposium</i> 13:45 - 15:15		Hall M
Visualizing immunity (American Association of Immunologists - AAI)		
<i>Chair:</i> Ulrich H. Von Andrian (United States)		
Far from home: T cell migration through non-lymphoid organs		13:45 - 14:10
<i>Society Symposium Speaker:</i> Susan Schwab (United States)		
Imaging antibody affinity maturation		14:10 - 14:35
<i>Society Symposium Speaker:</i> Gabriel Victora (United States)		
Tissue-specific immune regulation within the upper airway		14:35 - 15:00
<i>Society Symposium Speaker:</i> Ashley Moseman (United States)		
 <i>Symposium</i> 13:45 - 15:15		Hall N
Immunity mediated by innate lymphocytes (EFIS)		
<i>Chair:</i> Gunnur Deniz (Istanbul, Turkey)		
<i>Chair:</i> Bojan Polić (Croatia)		
Mechanisms of NK cell clonality		13:45 - 14:10
<i>Society Symposium Speaker:</i> Chiara Romagnani (Germany)		

New insights on the activation and regulation of gamma-delta T cells	14:10 - 14:35
<i>Society Symposium Speaker:</i> Bruno Silva-Santos (Portugal)	
Human innate lymphoid cells in colon inflammation and tumors	14:35 - 15:00
<i>Society Symposium Speaker:</i> Jenny Mjösberg (Sweden)	
<i>Symposium</i> 13:45 - 15:15	Hall L1 & L2
The IUIS Junior Community: perspectives from driving immunological research across the globe (ECC)	
<i>Chair:</i> Lee-Hwa Tai (Sherbrooke, Canada)	
<i>Chair:</i> 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
<i>Symposium Speaker:</i> Luciana Balboa (Argentina)	
Mechanisms of immune-mediated radiotherapy resistance in squamos cell carcinomas	14:15 - 14:40
<i>Symposium Speaker:</i> 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 - 14:10
<i>Symposium Speaker:</i> Anna Maximova (United States)	
Sex differences in antiviral immunity	14:10 - 14:35
<i>Symposium Speaker:</i> Marcus Altfeld (Germany)	
<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)	

Rising Star
16:15 - 17:00

Hall A

Rising stars

Macrophages in tumors, not always the bad guys

16:15 - 16:25

Rising Star Awardee: Rodrigo Nalio Ramos (Brazil)

Unveiling dendritic cell subsets in humans: new molecular mechanisms for enhancing tumor immunity

16:25 - 16:35

Rising Star Awardee: Akira Takeda (Finland)

Can a B cell eat a parasite?

16:35 - 16:45

Rising Star Awardee: Xin (Andy) Gao (Australia)

Discussion

16:45 - 17:00

Keynote Lecture
17:00 - 17:30

Hall A

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

Chair: 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:* 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
<i>Symposium Speaker:</i> Axel Kallies (Australia)	
Factors that regulate T cell fates in cancer	09:20 - 09:45
<i>Symposium Speaker:</i> Chen Dong (China)	
Panel discussion	09:45 - 10:00
 <i>Symposium</i> 08:30 - 10:00	 Hall F2
Intercellular communication in tissues	
<i>Chair:</i> Ajithkumar Vasanthakumar (Melbourne, Australia)	
<i>Chair:</i> Karoline Strobl (Vienna, Austria)	
Pregnancy induced tissue-resident memory T cells protect against breast cancer	08:30 - 08:55
<i>Symposium Speaker:</i> Ajithkumar Vasanthakumar (Australia)	
Immune regulation during pregnancy	08:55 - 09:20
<i>Symposium Speaker:</i> Taruna Madan (India)	
Spatial control of tumor immunity and mRNA therapeutics	09:20 - 09:45
<i>Symposium Speaker:</i> Brian Brown (United States)	
Panel discussion	09:45 - 10:00
 <i>Symposium</i> 08:30 - 10:00	 Hall M
Nucleic acids and immunity	
lncRNAs in macrophage differentiation	08:30 - 08:55
<i>Symposium Speaker:</i> Susan Carpenter (United States)	
Control of lymphocyte development and effector function by RNA-binding proteins	08:55 - 09:20
<i>Symposium Speaker:</i> Vigo Heissmeyer (Germany)	
Toll-like receptor responses to lysosomal nucleic acid stress	09:20 - 09:45
<i>Symposium Speaker:</i> Kensuke Miyake (Japan)	
Panel discussion	09:45 - 10:00
 <i>Symposium</i> 08:30 - 10:00	 Hall N
Novel approaches combating infectious diseases	
<i>Chair:</i> Juliana Cassataro (Argentina)	
<i>Chair:</i> Anne Maria Hahn (Melbourne, Australia)	
Discovery of new mucosal vaccine adjuvants and development of a booster vaccine against SARSCoV2	08:30 - 08:55
<i>Symposium Speaker:</i> Juliana Cassataro (Argentina)	
siRNA-based treatment for COVID-19	08:55 - 09:20
<i>Symposium Speaker:</i> Musa Khaitov (Russian Federation)	
Presentation by George Gao	09:20 - 09:45
<i>Symposium Speaker:</i> George Gao (China)	
Panel discussion	09:45 - 10:00

Symposium 08:30 - 10:00	Hall L1 & L2
Neuro-immune interactions	
Chair: David Hafler (United States)	
Neuroimmune circuits in host defense and disease tolerance	08:30 - 08:55
Symposium Speaker: Sophie Ugolini (France)	
More than just a symptom: pain sensation in inflammation and cancer	08:55 - 09:20
Symposium Speaker: Ulrich H. Von Andrian (United States)	
IFNγ-secreting CD4 cells migrating from the gut to CNS regulates behavior	09:20 - 09:45
Symposium Speaker: David Hafler (United States)	
Panel discussion	09:45 - 10:00
Symposium 08:30 - 10:00	Hall L3
Tackling immunological disorders, HIV and HIV-related co-morbidities in Africa (FAIS)	
Chair: Clive Gray (South Africa)	
Presentation by Lucy Ochola	08:30 - 08:55
Society Symposium Speaker: Lucy Ochola (Kenya)	
Immune Mechanisms and Translational Targets in Pregnancy-Associated Malaria: Insights from Ongoing Studies	08:55 - 09:20
Society Symposium Speaker: Bernard Kanoi (Kenya)	
Presentation by Livo Esemu	09:20 - 09:45
Society Symposium Speaker: Forgu Esemu Livo (Cameroon)	
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
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
Oral Abstract Presenter: 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
Oral Abstract Presenter: 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

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)	
<u>mRNA-based engineering for flexible 'off-the-shelf' allogeneic T cell therapy</u>	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>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 caused by Treg depletion	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Dana Costigan (United Kingdom)	
Identification of Th17 cells with stemness features in crescentic glomerulonephritis	11:10 - 11:18
<i>Oral Abstract Presenter:</i> Mingjie Lin (Germany)	
CCR6 Intrinsic Signaling Regulates Th17 Cell Metabolism in Colitis	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Girdhari Lal (India)	
CD19⁺ Plasma Cells Harbor Distinct Autoreactive Subsets and Are Associated with Lupus	11:26 - 11:34
<i>Oral Abstract Presenter:</i> 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: Fabiola Gonzalez-Herrera (Santiago, Chile)

ATF3 characterizes aggressive drug-tolerant persister cells in HGSOC 10:30 - 10:38

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)

Mesenchymal Stem Cell Therapy Improved Functional Outcomes in Limb Transplantation 11:50 - 11:58

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

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)

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

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
<i>Oral Abstract Presenter:</i> Yusuf Eshimutu Abu (Germany)	
Mapping T cell and B cell receptors in spatial immune niches with high adaptability	11:10 - 11:18
Impact of donor-recipient KIR/HLA incompatibility on haplo-identical Hematopoietic Stem Cell Transplantation outcome	11:18 - 11:26
<i>Oral Abstract Presenter:</i> Uma Kanga (India)	
Modulation of CCR5 Shapes the Treg and M-MDSC Landscape in Early Atherosclerosis: A Novel Preventive Approach	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Alpana Sharma (India)	
Broadening the clinical and genetic Landscape of Cernunnos Deficiency	11:34 - 11:42
Exciting Hematopoietic Stem Cells	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Roi Gazit (Israel)	
ImmuDiet - human immune response to dietary changes	11:50 - 11:58
<i>Oral Abstract Presenter:</i> Jacqueline Leidner (Germany)	
<i>Abstract Session</i>	
10:30 - 12:00	Hall M
Infectious diseases and COVID	
<i>Chair:</i> 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
<i>Oral Abstract Presenter:</i> Lucas Til Arendholz (Germany)	
Distinct IgG And IgA Autoantibody Signatures Associated With COVID-19 Sequelae	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Catherine Chen (Australia)	
An emerging role for Epstein-Barr Virus in Long COVID	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Alexandra Tabachnikova (United States)	
Platelet-derived serotonin drives lung immunopathology in aged SARS-CoV-2 infected mice	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Davide Marotta (Italy)	
Mucosal Immunity and Trivalent Vaccine Strategy for Enhanced SARS-CoV-2 Protection	11:02 - 11:10
<i>Oral Abstract Presenter:</i> Tai-Na Wu (Taiwan)	
Long-Term Impact of Sepsis on Pediatric Immune Function: Immunophenotypic and Metabolic Shifts in Myeloid Cells	11:10 - 11:18
<i>Oral Abstract Presenter:</i> 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
<i>Oral Abstract Presenter:</i> Yue Zhang (China)	
Baseline plasma immunological markers predict mortality in drug-susceptible tuberculosis patients: a multicenter prospective cohort study in Brazil	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Mariana Araujo-Pereira (Brazil)	
Longitudinal study on SARS-CoV-2 mRNA vaccine immunogenicity across individuals with different immunocompromising conditions:	11:34 - 11:42

heterogeneity in the immune responses and impact of Omicron-adapted boosters

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

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

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)

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
<i>Oral Abstract Presenter:</i> Paolo Carrega (Italy)	
Unraveling Novel Role(s) of Semaphorin 3E in Regulating Natural Killer Cell Homeostasis and Functions	10:46 - 10:54
<i>Oral Abstract Presenter:</i> 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
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
<i>Oral Abstract Presenter:</i> Siavash Mashhour (Canada)	
ILC3s modulate intestinal immune-epithelial interactions via TGF-β1 activation	11:18 - 11:26
Restoring anti-tumor function in dysfunctional natural killer cells	11:26 - 11:34
<i>Oral Abstract Presenter:</i> Batel Sabag (Israel)	
LSD1 is important for transcriptional integrity and maintenance of NK cell function	11:34 - 11:42
<i>Oral Abstract Presenter:</i> May Wantz (Luxembourg)	
Interpretable Inflammation Landscape of Circulating Immune cells	11:42 - 11:50
<i>Oral Abstract Presenter:</i> Juan C. Nieto (Spain)	
<i>Abstract Session</i>	
10:30 - 12:00	Hall L3
Immunity to parasites	
<i>Chair:</i> Gerardo Manuel Corral-Ruiz (Mexico, Mexico)	
CD45 in Tuft Cells: A Gatekeeper of Intestinal Immunity	10:30 - 10:38
Immunomodulatory Effects of <i>Ascaris suum</i> on 4T1 Breast Tumor Progression	10:38 - 10:46
<i>Oral Abstract Presenter:</i> Lilian Lacerda Bueno (Brazil)	
Peripheral and liver immune profiling identifies pathogenic T-cell subsets in carcinogenic liver fluke <i>Clonorchis sinensis</i> infection	10:46 - 10:54
<i>Oral Abstract Presenter:</i> Zhaojun Wang (China)	
Exploration of the infected RBC immunosurfaceome as a tool for anti-<i>Plasmodium</i> antibody discovery	10:54 - 11:02
<i>Oral Abstract Presenter:</i> Paul Heinrich Gerstenhöfer (Switzerland)	
Pathogenic variants in mitochondrial genes DHODH and UMPS segregating with Chagas disease cardiomyopathy patients increase cardiomyocytes susceptibility to IFN-γ and TNF-α-induced mitochondrial dysfunction	11:02 - 11:10
<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

Oral Abstract Presenter: Pierre-Yves Mantel (Switzerland)

Efficacy of a Chimeric Trivalent Antigen Treated with N-Acetyl Cysteine as Vaccine Candidate against *Trypanosoma cruzi* Infection

11:34 - 11:42

Oral Abstract Presenter: Emilio Malchiodi (Argentina)

Upon Invitation

12:00 - 13:00

Room 0.31-32

New Council Meeting (Introductory meeting) - Upon Invitation

Poster Walk

12:15 - 13:45

Poster Area

COVID

III.540 **The role of SARS-CoV-2 Membrane protein antibodies in protective humoral immunity**

III.541 **Natural Infection Trumps Vaccination in Salivary Neutralization and Tissue Protection**

Poster Presenter: Gabriel Diem (Austria)

III.542 **Berbamine: a Broad-Spectrum Antiviral Targeting SARS-CoV-2 and Emerging Variants**

Poster Presenter: Srikanth Sadhu (India)

III.543 **Sex-related immune responses and gastrointestinal commitment converge to Long COVID sequelae in female patients**

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**

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**

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.552 **Neutrophils specific CCRL2 genetic variants contributes to COVID-19 severity**

III.553 **Dysregulation of Selenoprotein RNA Expression and Editing Drives Monocyte Heterogeneity and Cell Death in COVID-19**

- 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**
- III.555 **Long-term follow-up on determinants of SARS-CoV-2 immunity in asymptomatic-to-moderate COVID-19 patients in sub-Saharan Africa**
- 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**
- III.559 **YKL-40 as a biomarker for the innate immunity after COVID-19 infection**
- 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
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Poster Area

Blood cells and proteins

- III.098 **Perturbation of the monocyte compartment in Long-COVID**
- III.099 **Differentiation of human monocyte trilineage progenitor under Notch stimulation**
- 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**
- 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****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****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**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****III.506 Molecular exploration of co-stimulatory receptors in CD8⁺ and CAR-T cell cytotoxic function***Poster Presenter:* Guilh  n 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****III.511 IL-21 signaling in a CD4⁺ T cell-dependent manner exposes more**

proliferative T cell subsets

- 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**

- 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**

- III.516 **GMDS controls early T-cell development in mice**

- III.517 **The impact of inflammatory pathways on fetal thymic immune cell development**

- III.518 **AI-driven Single-cell bioinformatics uncovers a novel T cell origin as an effective immunotherapy for solid tumors**

- III.519 **High-resolution mapping of cell cycle dynamics during steady-state T cell development and regeneration in vivo**

- 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
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Poster Area

Immunity to fungi and parasites

- III.276 **The effect of lung colonisation with *Candida albicans* on *Staphylococcus aureus* infection**

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**

- III.279 **Postbiotic metabolites inhibit growth and metastasis and induce apoptosis in the breast cancer cell line**

- III.280 **Transfer RNA (tRNA) modification regulates the intestinal innate immunity**

Poster Presenter: Jun Sun (United States)

- III.281 **Immunomodulatory Role of MDSCs in Dermatophytosis: Arginase-1 Dependent T Cell Suppression and Transcriptomic Profiling**

- III.282 **Antibiotic-mediated microbiota disruption affects susceptibility and immune responses to systemic candidiasis**

- III.283 **Type-2 immune-mediated adaptations in epithelial cells in response**

to commensal protists and helminth infection

- III.284 **Integrated analysis of lncRNAs and mRNAs expression profiles in cutaneous leishmaniasis lesions caused by *Leishmania tropica* infected patients**
- III.285 **C57BL/6 Peritoneal Macrophage Exosomes Improve Antileishmanial Functions of the RAW264.7 Cells**
- 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**
- 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.289 **Salivary gland extracts of *Phlebotomus papatasi* alter miRNA and inflammatory gene expression in Human monocytes-derived macrophages**
- III.290 **Myeloid derived suppressor cells facilitate asymptomatic carriage of *Plasmodium* parasites in malaria**
- 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.293 **IL-17A/IFN- γ producing $\gamma\delta$ T cell functional dichotomy impacts cutaneous leishmaniasis in mice**
- III.294 **Deciphering the mechanism(s) through which Foxp3+ Treg regulates fibro-granulomatous inflammation during schistosomiasis**
- 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**
- 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

Inflammasome

- 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 Area

- III.360 **Analysis of the anti-inflammatory effects of three compounds derived from *Seri (Oenanthе 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**
- III.362 **Rhodosin Alleviates Inflammatory Responses in Activated Macrophages by Suppressing NLRP3 Inflammasome Activation and STAT3 phosphorylation**
Poster Presenter: Ming-Ling Kuo (Taiwan)
- III.363 **Unravelling anticancer activity of phytoextract RM1 and underlying mechanism of NLRP3 pathway regulation**
Poster Presenter: Subrata Sen (India)
- 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**
- 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-Szematowicz (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**
- 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**
- III.374 **Trajectory of innate immune cell protein expression during CNS auto-immunity**
Oral Abstract Presenter: Felix Weiss (Germany)
- III.375 **Cell-specific targeting of TRAF1 in sepsis**
- III.376 **Syntaxin 17 modulates inflammatory responses in Interleukin-1 and Toll-like receptor signaling**
- III.377 **Crosstalk Between NRF2 And Nitric Oxide In Regulation Of NLRP3 Inflammasome**

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**

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Poster Presenter: Irina Tsymala (Austria)

Poster Walk
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Poster Area

Viruses

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**

III.563 **Longitudinal study of CD4 T-cell response dynamics after natural and vaccine-induced immune boosting**

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**

III.568 **Multidimensional characterization of SARS-CoV-2-YLQ-specific TCRs and their spectrum of functional avidity**

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**

III.572 **Selenium-NRF2-GPX4 axis protects pancreatic acinar cells from ferroptosis and CVB3-induced acute pancreatitis**

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.575 **The TGFβ signaling pathway could be effective in the pathogenesis of human lymphotropic virus type 1 evidence from a systems**

biology study

- 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**

- 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.580 **Cationic branched peptide inhibits respiratory syncytial virus *in vitro* and *in vivo***

- 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

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Poster Area

Cancer 5

- 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.205 **Myeloid targeting for immunotherapy of cancer requires endosomal pattern recognition**

- III.206 **Optimized MELOE-1 TCR expression in primary T cells leads to enhanced clearance of malignant melanoma**

- III.207 **Zoledronic-acid and Temsirolimus Combination Regulate Wnt Pathway and Immunity in Glioblastoma Cells**

III.208 **The autophagy enhancer spermidine promotes expansion of human regulatory T cells under mTOR-inhibited conditions**

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.210 **Human thymic epithelial stem cells: building a thymus-in-a-dish**

III.211 **Harnessing the Power of CAR-NK Cells: A Promising Off-the-Shelf Therapeutic Strategy for CD38-Positive Malignancies**

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)**

III.214 **MAIT cells retain antitumor cytotoxicity in the presence of chemotherapy and target DNA-damaged mucosal cancer cells**

III.215 **Human amniotic epithelial cells exert anti-cancer effects through secretion of immunomodulatory small extracellular vesicles (sEV)**

III.216 **Boosting CAR-T Cell Potency Through TFEB-Mediated Lysosomal Regulation**

Poster Presenter: Yiwei Chu (China)

Poster Walk
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Poster Area

Antigens and antibodies

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.024 **Introduction of immunogenic proteins of *Phlebotomus sergenti* salivary gland as a vaccine candidate or a vector exposure biomarker**

III.025 **Oligonucleotide-Linked Lipid Nanoparticles as a Versatile mRNA Nanovaccine Platform**

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**

III.029 **Boosting Immunity Against *Plasmodium vivax*: Targeting PvMSP1₁₉ protein to Dendritic Cells via Chimeric Antibodies**

Poster Presenter: Silvia Beatriz Boscardin (Brazil)

III.030 **Rational Design of Calcium Phosphate Nanoparticles as a Novel Vaccination Platform**

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.034 **Lasting adaptive immunity upon vaccination with non-replicating herpesvirus vectors**

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)

III.037 **Computational Vaccine Design: A safe and effective Immunoinformatics-based approach against SARS-CoV-2**

Poster Walk

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Poster Area

Autoimmunity 2

III.059 **Inducible intestinal IgA generation by adaptive and innate B cell immunity during microbiota-driven colitis**

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**
- III.066 **Novel mutation of IKK α results in intestinal inflammation and gastroenteritis with CD8⁺ T-cell lymphocytosis**
- 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**
- III.069 **Tetrahydrobiopterin metabolism drives abdominal pain in ulcerative colitis**

Poster Presenter: Miguel de Abreu de Oliveira (Brazil)

- III.070 **CXCL9 and its receptor CXCR3, an important link between inflammation and cardiovascular risks in RA patients**
- 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**

- III.073 **ADP-Heptose-ALPK1 Axis Emerges as a Novel and Promising Therapeutic Target to Manage Inflammatory Bowel Diseases (IBD)**

Poster Presenter: Hong Ma (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 Walk
12:15 - 13:45

Cancer 4

Poster Area

- 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.181 **Unveiling the Immune Profile of Meningioma: CD45RO-PD-1 Axis and Implications for Targeted Immunotherapy**
- III.182 **Engineering a Tumor-Targeted Nanoplatfom to Reprogram Tumor-Associated Macrophages and Boost Antitumor Immunity in Head and Neck Squamous Cell Carcinoma**
- III.184 **Anti-soluble CD155 antibody augments the efficacy of PD-1 blockade**
- 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**
- III.188 **HER2-specific CAR T cells exhibit potent antitumor efficacy against breast carcinoma xenografts resistant to trastuzumab-emtansine and trastuzumab-deruxtecan**
- 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.194 **Characterization of novel anti-GPA33 antibodies in cancerous human tissues with immunohistochemistry analysis**
- III.195 **CXCL9-CXCR3 axis as a central role in immune networks favoring response to immunotherapy in advanced melanoma patients**
- III.196 **Phenotypic and Functional Characterization of NK Cell Subsets in the Bone Marrow of Neuroblastoma Patients: Implications for NK Cell-Engaging Immunotherapy**
- III.197 **Enhancing T cell immunity in tumor-draining lymph nodes**
- 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 Walk
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Poster Area

Microbiome and mucosal immunology

- III.380 **Proteomes of gut bacterial extracellular vesicles**
- III.381 **Antibiotics in pregnancy: effects of sow antimicrobials on piglet immune system and growth**

- III.382 **Association of T cell receptor (TCR) V β 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: Carina Alexandra Pawlow (Germany)
- III.385 **Extracellular vesicles of probiotic *Escherichia coli* O83:K24:H31 decorated with allergens using the SpyCatcher-SpyTag system for testing in allergy**
- 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**
- III.389 **Axl Receptor-Mediated Efferocytosis Modulates Bone Loss and Inflammation in Experimental Periodontitis**
- III.390 **Bacterial quorum sensing molecules produced via *hdtS* homologs affect host T cell immunity in the mammalian gut**
- III.391 **A SCFA yielding biotherapy delays diabetes in humanized gnotobiotic mice by remodeling mucosal homeostasis and metabolite production**
- III.392 **Protective Effects of *Lupinus albus*-Derived Galactooligosaccharides on Gut Microbiota, Intestinal Barrier Integrity, and Monocarboxylate Transporters in Ulcerative Colitis**
- III.393 **Mapping the current knowledge on leukocytes in human breastmilk: a scoping review**
- 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**
- 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)

Poster Walk
12:15 - 13:45

T cells 2

- III.522 **A novel deletion-driven mechanism generates unusual TRB V(D)J1-C2 chains during human T-cell development**

Poster Area

Poster Presenter: Alexander Komkov (United Arab Emirates)

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**

III.524 **Clinical and Immunological findings of two Purine Nucleoside Phosphorylase (PNP) deficiency cases with two novel mutations**

III.525 **Immune dysregulation in children with Down syndrome: altered tonsillar architecture and reduced follicle size correlate with increased frequencies of CD4⁺ PD1^{int} CXCR3⁺ T cells**

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**

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**

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.534 **Higher peripheral blood Th2 lymphocytes are associated with a lower rate of relapse in lymphoma patients**

III.535 **Role of SLC transporters in Th9 Cell Differentiation**

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**

III.539 **Homeostatic early-life development of thymic B cells differentiation into memory B cells**

Poster Walk
12:15 - 13:45

Animal models and veterinary immunology

Poster Area

- III.078 **Automate tissue processing with STEMprep™ for versatile sample preparation**
Poster Presenter: Grace F.T. Poon (Canada)
- III.079 **Actinomycetoma by *Nocardia brasiliensis* is modulated by DMS-DA6 peptide in BALB/c mice**
Poster Presenter: Anna Velia Vázquez Marmolejo (Mexico)
- III.080 **Anti-inflammatory/immunomodulatory effects of vitamin K2 in collagen-induced arthritis in rats**
- III.081 **Optimization of a rabbit T cell flow cytometry assay for future vaccine immunogenicity studies**
Poster Presenter: Emily N. Tangie (South Africa)
- III.082 **Immunostimulating effect of decoction of aqueous extract of mixture of *Gossypium hirsutum L.* and *Terminalia catappa L.* on the immune system of Wistar rats**
- III.083 **TCR transgenic clone selection guided by immune receptor analysis and single cell RNA expression of polyclonal responders**
Poster Presenter: Nincy Debeuf (Belgium)
- III.084 **Enhanced Anticancer Efficacy of Resveratrol via Folate-Conjugated Human Serum Albumin Nanoparticles in Colorectal Cancer Models**
- III.085 **Characterization of Human Lung Immune Cells in the Humanized BRGSF Mouse Model**
Poster Presenter: Anna V. Curioni (France)
- III.086 **Characterization and Comparative Analysis of Cancer Xenografts in Humanized Mice**
Poster Presenter: Stephanie Stahnke (Germany)
- III.087 **A new humanized mouse model for investigating autoimmune disease**
- III.088 **The development of immunoglobulin gene reference for Arabian Camels' TCR and BCR repertoire reconstruction**
- 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.091 **Plumbagin attenuates Bleomycin-induced lung fibrosis in mice**
- 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**
- III.096 **Effect of delphinidin on cytokine production in canine polymorphonuclear cells and lymphocytes**

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

Cancer 1

III.116 **Gas-producing nanocarriers loaded with photosensitizer and toll-like receptor agonist for synergistic cancer photo-immunotherapy**

III.117 **Nanoparticles-enabled modulation of tumor-associated macrophages combined with immunogenic cell death for cancer immunotherapy**

III.118 **Mitochondrial-targeted nanoparticles interfere with tumor metabolism to enhance tumor immunotherapy**

III.119 **ZNF677 downregulation by promoter hypermethylation as a driver event through gastric tumorigenesis**

III.120 **Tumor-Infiltrating Lymphocyte-Derived T Cell Receptors Recognizing Breast Cancer in an MR1-Dependent Manner**

Poster Presenter: Hiroyuki Kishi (Japan)

III.121 **CTLA-4 Targeting in Colorectal Cancer Lysate-Pulsed DCs: Unleashing DCs' Immunostimulatory Potency to Boost T-Cell Responses**

III.122 **VSIG-3 as a Ligand for VISTA in Melanoma Progression and T-cell Modulation: Implications for Targeted Cancer Immunotherapy**

III.123 **Nanoliposome loaded with Curcumin and Dorema aucheri extract increased the number of infiltrated CD8+ T cell in colorectal cancer microenvironment**

III.124 **Checkpoint Blockade Restores Migration and Infiltration Abilities of Exhausted Th1 Cells**

III.125 **Improved Breast Cancer Treatment: The Synergistic Effects of Newcastle Disease Virus and Doxorubicin**

Poster Presenter: Somaye Sadeghi (Iran)

III.126 **Collagen affinity improves the efficacy and reduces the toxicity of anti-CTLA-4 antibody**

Poster Presenter: Chuyi Wang (United Kingdom)

III.127 **Enhancing immune checkpoint blockade therapy by regulating cholesterol metabolism: A precision approach to reprogram antigen-specific exhausted T-cells**

III.128 **Early stage second-degree burn blister exudate polarizes macrophages toward M1-like phenotype and induces antitumoral activity**

III.129 **Novel anti-cancer and immunomodulatory properties of discovered bioactive compounds in Thai herbs**

Poster Presenter: Kanchana Usuwanthim (Thailand)

III.130 **Nanoliposome loaded with Curcumin and Dorema aucheri extract increase the serum level of IL-15 and IFN.γ in colorectal cancer bearing mice**

III.131 **CTLA-4 knockdown induces anti-tumor effects in head and neck squamous cell carcinoma (HNSCC)**

- III.132 **Gut microbiota is indispensable for antitumor immune responses induced by orally-administered Manuka honey**
- III.133 **Immune monitoring after anti-CD19 CAR T-cell therapy in DLBCL patients**
- III.134 **PD-1 blockade enhances therapeutic effects of ¹⁷⁷Lu-DOTA-M5A in colorectal cancer CEA-transgenic mice**
Poster Presenter: Tabassom Mohajershojai (Sweden)
- III.135 **Cyclophosphamide-Loaded D8 and RI-VAP Modified Chitosan Nanoparticles for Glioma Chemo-Immunotherapy and Tumor Microenvironment Remodeling**

Poster Walk
 12:15 - 13:45

Poster Area

Clinical immunology

- III.218 **Immunodeficiency in a patient with Smith-Magenis Syndrome; case report**
- III.219 **Two Cases of Common Variable Immunodeficiency Unable to Achieve Optimal Through Level with Subcutaneous Immunoglobulin Therapy**
- 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**
- III.224 **Clinical and Demographic Characteristics in Patients with Inborn Errors of Immunity: Single Center Experience**
- III.225 **Replacing white sugar with brown sugar in the diet of patients with type 2 diabetes reduces HbA1c and inflammatory cytokines**
Poster Presenter: Abdolkarim Sheikhi (Iran)
- III.226 **The Impact of IVIg on Lymphocyte Proliferation Assays Using Whole Blood and Potential Solutions**
- III.227 **Relation of Interleukin-38 (IL-38), Interleukin-39 (IL-39), Interleukin-40 (IL-40) and Serum IgA in Celiac Disease**
Poster Presenter: Ash 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.229 **Impact of low-level pre-transplant donor-specific antibodies detected by Luminex platform on acute rejection and long-term graft survival**
Poster Presenter: Khawar Abbas (Pakistan)
- III.230 **Immunogenicity of respiratory syncytial virus vaccination in solid**

12:15 - 12:19

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)**

- III.234 **CXCR4 blockade reduces the severity of murine heart allograft rejection by plasmacytoid dendritic cell-mediated immune regulation**

- 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)

- III.237 **Soluble human leukocyte antigen-G in Tunisian kidney transplantation**

- III.238 **The association between immune checkpoint receptor expression and development of acute graft versus host disease (aGVHD) and disease recurrence after allogeneic hematopoietic stem cell transplantation**

Poster Walk
12:15 - 13:45

Poster Area

Genetics and bioinformatics

- III.239 **Immunogenetic regulation of Vitamin D metabolism and inflammation during Multiple Sclerosis: A South Tunisian study**

- III.240 **Zbtb20 affects the immune status of homo- and heterozygous animals**

- 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)**

- 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**

- III.246 **Characterization of a Novel T Cell Staining Reagent**

- III.247 **Application of IMBAS-MS to Explore Soluble Immunoepitome Dynamics and Reproducibility in Cancer**
- III.248 **Unraveling DNA methylation dynamics in annelids regenerative processes**
Poster Presenter: Chayeen Brotzki da Costa (Hungary)
- III.249 **ECM stiffness regulates cytotoxic T lymphocytes functions via α -Tubulin acetylation**
Poster Presenter: Hong Zhang (Germany)
- III.250 **Type-2 innate lymphocytes reprogram resident alveolar macrophages into drivers of inflammation by switching from PPAR- γ to IRF4 regulons**
- 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**
- III.253 **Association of miR-146a/b and miR-181a with Chronic Obstructive Pulmonary Disease**
- III.255 **Allograft renal rejection and chemokine polymorphisms in Tunisian patients**
- 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

Immunodiagnosics

- III.298 **Development of sensitive competitive enzyme-linked assay for C-reactive protein using solid separation system for clinical application**
Poster Presenter: Ghodke Tanhaji Sandu (India)
- III.299 **Theoretical and practical considerations for validating antigen-specific B cell ImmunoSpot assays**
Poster Presenter: Greg Kirchenbaum (United States)
- III.300 **Production and Characterization of Anti-MPT64 Monoclonal Antibodies for Diagnostic Applications in Tuberculosis Detection**
Poster Presenter: Natcha Panachamnong (Thailand)
- III.301 **Validation of high throughput microneutralization assay for anti-AAV2 neutralizing antibodies (NABs) in clinical trials in support of gene therapy**
Poster Presenter: Magdalena Tary-Lehmann (United States)
- III.302 **Comparison of ImmunoCAP ISAC and ALEX2 ALLERGY XPLOER**
- 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**
- III.306 **Technical performance of a miniaturized chip platform for measuring specific antibody responses to antigens and peptides from respiratory viruses**
- III.307 **Improving Flow Cytometry Data with Versatile StarBright Dyes**
- III.308 **Production of Chimeric Mouse-Human Antibody Against Allergen Api m 3 Utilising Genetic Material from Single Mouse B cell**
- 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 **Development of Novel Immunodiagnostic Tools through the Integration of Leukocytes into Gold Nanoparticles (AuNP)-based Paper Biosensors**
- 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.316 **Establishment of a clot biopsy technique to assess inflammatory responses aligned with the sustainable development goals**
- III.317 **An RNA interference-based approach to suppress immune escape and invasion of hepatocellular carcinoma**

Poster Walk
12:15 - 13:45

Poster Area

Cancer 2

- III.136 **Selective Induction of Apoptosis in Hypoxic Tumor Cells Using HRE-Regulated Expression of HSV-TK**
- 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.141 **Phycocyanin as a Novel Therapeutic Approach to Counteract Leptin-Induced Oxidative Stress and Inhibit Breast Cancer Progression**

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**

III.149 **TLR7/8-agonist- and antigen conjugated nanogels elicit antigen-specific immune responses against tumors**

III.150 **Mechanisms of skin toxicities following targeted EGFR therapies: insights from mouse models**

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**

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

Mixed topics 2

III.421 **Immunometabolism in single cell resolution - PrEMIUM-seq: Projectable Epitope and Metabolic Index couple Multi-omics by sequencing**

Poster Area

Poster Presenter: Yu-Ming Chuang (Switzerland)

III.422 **Spatial Transcriptomics Reveal Immune Compartmentalisation in COPD lungs**

III.423 **Leveraging proximity labeling to probe Mtb-specific intercellular interactions**

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.426 **A Cell Atlas of Arabian Camel Thymus and Blood**

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**

III.429 **Single-cell RNA sequencing reveals signatures of prostate macrophage populations under different experimental setups associated with androgen stimulation**

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.433 **Revealing Immune Signatures of Lasting Vaccine-induced Immunity Through Systems Immunology**

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.438 **Exploring the repository of de novo- designed bifunctional antimicrobial peptides through deep learning**

III.439 **Precision tolerance: antigen-specific phosphatidylserine enriched liposomes as a platform against autoimmunity**

- III.440 **Nanoparticles targeting liver sinusoidal endothelial cells improve AAV gene transfer and promote tolerance-spreading to capsid and transgene epitopes**

Poster Presenter: Sabine Fleischer (Germany)

- III.441 **Antigen presenting cell-targeted vaccines show durable antigen-specific immune tolerance in mouse models of autoimmune disease**

Poster Presenter: Louise Bjerkan (Norway)

Poster Walk
12:15 - 13:45

Poster Area

Mixed topics 1

- 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**

- 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**

- 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**

- III.405 **Intravital microscopy revealed selective accumulation of the fluorescently labeled betulonic acid conjugate in Kupffer cells**

Poster Presenter: Emil Yamansarov (Russian Federation)

- III.406 **Protein O-GlcNAcylation regulates the homeostasis of innate B lymphocytes**

- 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- $\beta 7$ antibodies**

- 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**

- III.412 **Is MAVS redundant in protecting human airway epithelium from influenza virus infection?**

Poster Presenter: Maja Sønderby Hemberg (Denmark)

- III.413 **Developing a high-throughput spheroid culture system for monitoring colorectal cancer cell activity**
- III.414 **Unravelling tumor-NK cell interaction dynamics in 3D using patient-derived tumor organoid models**
- III.416 **Molecular insights into immunoglobulins and their receptors**
- III.417 **Characterization of an IL-33 expressing, immune-active fibroblast subpopulation**
- III.418 **T cell-mediated fibroblast reprogramming drives granuloma formation in sarcoidosis**
- 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 Walk
12:15 - 13:45

Poster Area

Primary and secondary immunodeficiency

- III.464 **Two Different Clinical Phenotypes of STAT-1 Gain of Function Mutation**
- III.465 **Prioritizing experimental models for inborn errors of immunity based on developmental single-cell atlases**

Poster Presenter: Luca Calò (Italy)

- III.466 **Development of Malignancy in Patients with Inborn Errors of Immunity**
- 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.468 **From Genetic Mutation to Clinical Significance: How JAK3 Deficiency Affects GVHD**
- 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**
- III.470 **Autoimmune Cytopenias and Associated Monogenic Mutations in Patients with Primary Immunodeficiency**

Poster Presenter: Ferhat Sağun (Turkey)

- III.471 **Relationship Between Immune Dysregulation and Infection Frequency in Patients with Common Variable Immunodeficiency**
- III.472 **Lymphoproliferative Disorders and Lymphoma Risk: A Common Variable Immunodeficiency Case**
- III.473 **A RARE CAUSE OF CONGENITAL NEUTROPENIA: JAGUNAL HOMOLOG 1 (JAGN1) MUTATION**
- III.474 **A Rare Primary Immunodeficiency Hidden in Autoimmunity: Heterozygote CD3G variant in a 49-year-old Female Patient**

Poster Presenter: AAltiner Seda (Turkey)

III.475 **Determination of Reference Intervals for IgG, IgA, and IgM Levels by Age in Healthy Turkish Adults**

Poster Presenter: AAltiner Seda (Turkey)

III.476 **Case Report: Disseminated BCG Disease in a Chinese Male Infant with Severe Combined Immunodeficiency**

III.477 **NF-κB Pathway Variants in Iranian Patients with Primary Immunodeficiencies**

III.478 **Characterization of novel heterozygous *PTPN2* variant in CVID patient with interstitial cystitis**

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

Infectious diseases 1

III.318 **Genetic and Phenotypic Characterization of a Rabies Virus Strain Isolated from Dogs in Sindh, Pakistan**

III.319 **Cytomegalovirus infection in preterm and HIV-exposed infants: a prospective South African cohort study**

Poster Presenter: Nicole Prins (South Africa)

III.320 **Intralesional cytokines and JAK-STAT genes expression in cutaneous leishmaniasis patients infected with *L. tropica***

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: Lilia Ullrich (Germany)

III.323 **IMMUNOSURFACEOME OF *Plasmodium vivax* INFECTED RED BLOOD CELLS**

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**

III.326 **Dengue infection promotes psychiatric diseases development by altering neurotransmitters production in liver**

Poster Presenter: Ting-Jing Shen (Taiwan)

- III.327 **Immunometabolic profiling of *Mycobacterium tuberculosis* infected lung tissue**
- 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**
- III.329 **Detection of *Brucella abortus* in intestinal epithelial cells in a murine model intragastrically inoculated**
- 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.332 **Evaluation of *Phlebotomus sergenti* apyrase family members as vaccine candidate by bio- and immunoinformatic tools**
- 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**
- III.335 **HIGH SEROCOVERAGE OF RTS,S/AS01_E VACCINE IN A TARGETED ENDEMIC POPULATION IN MALAWI POST COVID-19 PANDEMIC**
- III.336 **The adipose tissue influences the inflammatory response and severity of cutaneous leishmaniasis**
Poster Presenter: Edgar Carvalho (Brazil)
- III.337 **A regression predictive model for indeterminate results of an Interferon-Gamma Release Assay in immunosuppressed patients**

Poster Walk
 12:15 - 13:45

Poster Area

Allergy

- III.001 **RISK FACTORS FOR THE DEVELOPMENT OF STEVENS-JOHNSON SYNDROME AND TOXIC EPIDERMAL NECROLYSIS**
- 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.004 **Is There a Relationship Between Atopy, Autoimmunity and Immediate Drug-Hypersensitivity Reactions?**
- III.005 **Development of a flow cytometric based assay for the detection of T-cell cytotoxicity modulated killing of target cells**
- 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**
- III.008 **A wheat microarray identifies gamma-gliadin, Tri a 20, as the major allergen in wheat food allergic children**
- III.009 **INNATE IMMUNE MEMORY OF HUMAN MUCOSAL VS. SUBMUCOSAL MAST CELLS**
- 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**
- 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**
- III.017 **Diversity of Artemisia pollen allergens: molecular approach to improve the diagnosis and immunotherapy**
- III.018 **Determination of the IgE sensitization profiles in Russia using micro-arrayed allergen molecules**

Poster Walk
 12:15 - 13:45

Poster Area

Autoimmunity 1

- 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.039 **Evaluation of Salirasib effect on the expression of genes involved in fibrosis in skin fibroblasts of systemic sclerosis patients**
- 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**
- 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 Immunobiologicals 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**

- 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.046 **DISEASE-RELATED CLONALLY EXPANDED CD8+ T CELLS IN SPONDYLOARTHROPATHIES**

- III.047 **Defining the source and effect of IL-23 in the lymph node during Experimental Autoimmune Encephalomyelitis (EAE) induction**

- III.048 **When the Skin Speaks First: A Case of Juvenile Systemic Lupus Erythematosus in an Iraqi Girl**

Poster Presenter: Dhargam Aljebouri (Iraq)

- 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**

- 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)

- III.058 **The effects of an herbal ointment on collagen-induced autoimmune arthritis in rat**

Poster Walk
12:15 - 13:45

Poster Area

Cancer 3

- III.156 **Oncolytic virus VSVd51-GM-CSF as an alternative to BCG treatment in non-muscle-invasive bladder cancer**

Poster Presenter: Lee-Hwa Tai (Canada)

- 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.159 **Cold plasma treatment of patient-derived chronic lymphocytic B-cell leukemia enhances cytotoxic T-cell proliferation**
Poster Presenter: Alireza Rafiei (Iran)
- III.160 **CD90 as a Promising CSC Immune-Related Marker for Bi-Specific Antibody Therapy in Advanced Hepatocellular Carcinoma**
- III.161 **Investigation of Two CAR-T Cell Lymphoma Cases Identified Genomic Aberrations as Potential Cause of Malignant Transformation**
- III.162 **Synergistic Impact of Combined Treatment of Breast Cancer with Gemcitabine and Oncolytic Adenovirus In vitro and In vivo**
- 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**
- III.165 **Identification of Tumor-Specific T-Cell Receptors**
- 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.172 **Synergistic Effect of the Oncolytic Adenovirus OAd-E55kDaΔ and Durvalumab in Non-Small Cell Lung Cancer: A Novel Immuno-Virotherapy Approach**
- 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.174 **Oncolytic Newcastle Disease Virus Boosts CAR-T Cell Efficacy against Prostate Cancer**
Poster Presenter: Mahdiah Jafari (Iran)
- III.176 **CCL13-CCR3 axis in lung cancer progression and immune landscape**
- 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

Immunometabolism

- III.259 **Role of mitochondria-associated membranes (MAMs) in neutrophils under diabetic kidney injury**

Poster Presenter: Mariana Abrantes do Amaral (Brazil)

- 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.262 **Targeting amino acid uptake on NK cells to limit pathogenesis of sepsis**

Poster Presenter: Maxim Nosenko (Ireland)

- III.263 **Tryptophan metabolism as a regulator of Type 2 immunity**

- 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.265 **STAT3 inhibition induces adipose-derived mesenchymal stem cells with anti-inflammatory properties**

- III.266 **Metabolic disharmony in the context of inborn errors of immunity as a framework to understand functional impairments and identify therapeutic possibilities.**

- III.267 **Negative regulation of osteoclastogenesis by AMPK α 1 attenuates bone pathology**

Poster Presenter: Sandra Fukada (Brazil)

- III.268 **Fuelling immunity: the impact of cellular metabolism and diet**

- 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**

- III.272 **Nutritional palmitic acid epigenetically reprograms macrophages to repress hepatocellular carcinoma via ACLY palmitoylation**

- III.273 **Dietary effects on cellular and metabolic dynamics of B lymphocytes**

- III.274 **Interaction of TLR-mediated and TGF β -induced pathways triggers inflammatory programs in human macrophages in diabetic conditions**

- III.275 **The role of HIF1 α axis in the function and metabolism of ROR γ t Tregs**

Poster Walk
12:15 - 13:45

Poster Area

Infectious diseases 2

- 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**
- III.340 **Understanding the impact of low, medium and high malaria preexposure status on SARS- COV-2 specific antibodies and functionality in Tanzanian individuals**
- III.341 **The co-infection of mice with Enteroaggregative *Escherichia coli* (EAEC) and Enterohemorrhagic *Escherichia coli* (EHEC) increases intestinal bacterial colonization and raises an specific immune response**
- III.342 **Memory HBx-specific T cells associate with viral control**
- 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**
- III.345 **IL-33 potentiates mast cell cytokine production in response to *Listeria monocytogenes***
- III.346 **Influenza H1N1 Strains Differ with Respect to their Potential for Dominating Immune Formation during Secondary Viral Exposures**
- III.347 **Immune signatures predict treatment outcome in cutaneous leishmaniasis patients**
- 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**
- III.349 **Azithromycin Modulates the Inflammatory Response of Mesenchymal Stem Cells Exposed to Lipopolysaccharide**
- 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**
- III.352 **The IL-17A and IFN- γ dichotomy in MASLD compromises the immune response to mCMV infection**
- III.353 **Sepsis subphenotypes based on inflammatory macrophages**
- 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**
- III.356 **Pleural effusion effects a host mRNA biosignature more than a host protein biosignature in fingerstick blood of people with pulmonary**

tuberculosis

- 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 Walk
12:15 - 13:45

Poster Area

Neuroimmunology

- III.442 **Role of the enzyme Pyruvate Kinase M2 (PKM2) in astrocytes modulating neuroinflammation**

- 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**

- 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**

- III.447 **Differential Gene Expression analysis in Blood and Cerebrospinal Fluid of Multiple Sclerosis and Neuro-Behçet Disease**

- III.448 **NEW TESTS AND TECHNOLOGIES FOR CSF AND BLOOD ANALYSIS OF INFLAMMATORY AND NEURODEGENERATIVE BIOMARKERS FOR THE INVESTIGATION OF MULTIPLE SCLEROSIS: FIRST TUNISIAN PILOT PROJECT**

Poster Presenter: Sawsan Feki (Tunisia)

- III.449 **HLA dependency and possible clinical relevance of intrathecally synthesized anti-IgLON5 IgG4 in anti-IgLON5 disease**

Poster Presenter: Inga Koneczny (Austria)

- III.450 **Interleukin-22 enhances remyelination in the Cuprizone Model of Multiple Sclerosis**

- III.451 **Evaluation of Serum BAFF and IL-17 Levels in Acute Schizophrenia: Pre- and Post-Antipsychotic Treatment Comparison**

- III.452 **Early-life Brain-Resident Regulatory T cells regulate neuro-immune homeostasis**

- III.453 **Gut Microbiota and Neurobiological Alterations in a Mouse Model of Binge Eating Disorder**

- 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**

- III.457 **Neuroinflammation characterization of the multiple sclerosis transgenic mouse model expressing DRB1*1502**
- 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.460 **Analyzing of the role of inflammation-related circRNA in the pathogenesis of MS using an animal model**
- III.461 **Regulators of neuroimmune function in the manifestation of central nervous system tuberculosis in the absence of microglia**
- III.462 **Hemopressin, a cannabinoid peptide, protects against cognitive impairments of sepsis-associated encephalopathy in mice**
- III.463 **Central Oxytocin Regulation of Inflammation**
Poster Presenter: Megan Sammons (Israel)

Poster Walk
 12:15 - 13:45

Poster Area

Skin immunology

- III.482 **Regulation of T cell polarization using HIF1a stabilizer, Roxadustat in MC903 induced Atopic Dermatitis**
- III.483 **Deficiency of Themis prevents atopic dermatitis by enhancing Treg homeostasis**
- 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**
- 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**
- III.491 **Distinct Anti-Microbial Peptides Expression Patterns and Microbiome Profiles in Skin of Tunisian Endemic Pemphigus Foliaceus Patients**

- III.492 **Relevance of sensitization to contact fragrance allergens in patients with chronic facial skin diseases**
- 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**
- 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**
- 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**
- III.502 **Serum haptoglobin as a predictor of treatment response in patients with chronic spontaneous urticaria**
- III.503 **Exploring High-Titer Antinuclear Antibodies: A New Perspective on Autoimmunity in Chronic Spontaneous Urticaria**

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

Extrinsic factors dictating plasma cell longevity

14:15 - 14:25

Rising Star Awardee: Renan V. H. de Carvalho (United States)

Clonotype-specific somatic hypermutations in the light chain as determinants of antibody breadth and binding

14:25 - 14:35

Rising Star Awardee: Camila Coelho (United States)

From proteome to prediction: multi-omic strategies driving clinical trial breakthroughs

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

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)

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: Christine Falk (Germany)

B cell surprises

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)*Abstract Session after Plenary*

17:00 - 17:30

Hall E1

Mechanisms of autoimmunity and allergy*Chair:* Vijay Kuchroo (Boston, United States)**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:* Thomas Weichhart (Austria)**Runx3/Cbfbregulates development and function of RorYt⁺ Thetis cells that drive differentiation of RorYt⁺ pTreg for gut homeostasis**

17:00 - 17:10

Oral Abstract Presenter: Ichiro Taniuchi (Japan)**24-Nor-ursodeoxycholic acid improves intestinal inflammation by targeting Th17 immunometabolism and transdifferentiation**

17:10 - 17:20

Oral Abstract Presenter: Ci Zhu (Austria)**Spatial Multi-Omics Integration Reveals Sphingosine-Mediated T Cell Exclusion and Exhaustion in Immunotherapy-Resistant Colorectal Cancer**

17:20 - 17:30

Oral Abstract Presenter: Youqiong Ye (China)

Abstract Session after Plenary

17:00 - 17:30

Hall F1

Autoimmunity and allergy*Chair:* 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

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:* 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)**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)**Inflamatory 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:* 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)**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 perivascular macrophages restrains uropathogen dissemination**

09:40 - 09:50

Epithelial cells provide immunocompetence for bacterial clearance before leukocyte development	09:50 - 10:00
<i>Oral Abstract Presenter:</i> Esteban Hoijman (Spain)	
Break 10:00 - 10:30	Exhibition Hall
Coffee Break (Entrance Hall)	
Symposium 10:30 - 12:00	Hall E1 & E2
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
Symposium 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)	
Symposium 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
<i>Symposium Speaker:</i> 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: Isabelle Meyts (Belgium)

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

11:20 - 11:45

Symposium Speaker: Kaan Boztug (Austria)

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

Chair: Carla Rothlin (United States)

Cold and hot fibrosis define clinically distinct cardiac pathologies

11:30 - 11:50

Symposium Speaker: Shoval Miyara (Israel)

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 (Norway)**Breaking Barriers: Human 3D Airway Models for Precision Testing of Antiviral Defenses**

10:30 - 10:50

Symposium Speaker: Doris Wilflingseder (Austria)**Characterisation of cryptic immune defects in cattle as models for translational immunology research**

10:50 - 11:10

Symposium Speaker: Gilles Foucras (France)**Immunological processes involved in melanoma regression in the MeLiM pig model**

11:10 - 11:30

Symposium Speaker: Giorgia Egidy (France)**Integrating the pig in a pre-clinical vaccine development pipeline**

11:30 - 11:50

Symposium Speaker: Tobias Käser (Austria)*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 E1 & E2

From allergen molecules to diagnosis, treatment and prevention of allergy

From allergen molecules to diagnosis, treatment and prevention of allergy	12:30 - 13:00
<i>Keynote Speaker:</i> Rudolf Valenta (Austria)	
<i>Rising Star</i> 13:00 - 13:45	Hall E1 & E2
Rising stars	
Specificity maturation defines germinal centre B cell transcriptional diversity	13:00 - 13:10
<i>Rising Star Awardee:</i> Deborah Burnett (Australia)	
The role of inflammatory imprinting on host responses to respiratory infection	13:10 - 13:20
<i>Rising Star Awardee:</i> Kerry Hilligan (New Zealand)	
Cytokine-Driven Pathogenesis to Antiviral Discovery: Tackling Emerging and Re-Emerging Viral Infections	13:20 - 13:30
<i>Rising Star Awardee:</i> Srikanth Sadhu (India)	
Discussion	13:30 - 13:45
<i>Keynote Lecture</i> 13:45 - 14:15	Hall E1 & E2
Immunology of post-acute infection syndromes	
<i>Chair:</i> Rita Carsetti (Italy)	
Immunology of post-acute infection syndromes	13:45 - 14:15
<i>Keynote Speaker:</i> Akiko Iwasaki (United States)	
<i>Special Lecture</i> 14:30 - 15:00	Hall E1 & E2
Closing talk	
<i>Chair:</i> Miriam Merad (United States)	
Immune Checkpoint Blockade in Cancer Immunotherapy: Mechanistic insights provide new therapeutic opportunities	14:30 - 15:00
<i>Plenary Speaker:</i> James P. Allison (United States)	
<i>Ceremony</i> 15:00 - 15:30	Hall E1 & E2
Closing and Welcome IUIS 2028	