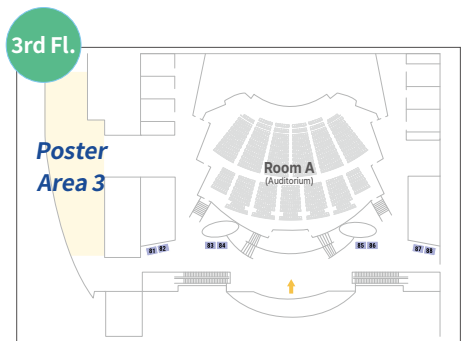
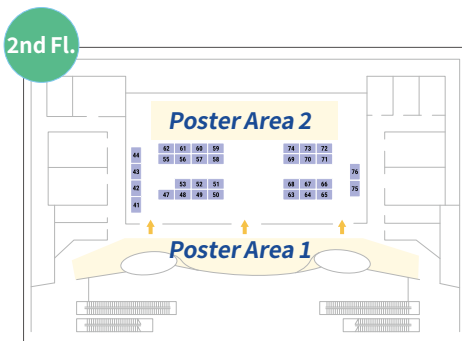


## Poster Presentation

- Presenters are expected to present their posters during dedicated presentation session. Posters will be presented in three separate areas.

Date & Time	Poster Area 1	Poster Area 2	Poster Area 3
<b>Poster Session 1</b>  Oct. 20 (Sun) 17:40-19:10	<ul style="list-style-type: none"> <li>• Cytokine Gene Expression and Signaling <b>CS</b></li> </ul>	<ul style="list-style-type: none"> <li>• Mucosal Immunity and Microbiota <b>MM</b></li> <li>• Antibody and B Cell Biology <b>AB</b></li> </ul>	<ul style="list-style-type: none"> <li>• Infection and Vaccine Immunity <b>IV</b></li> <li>• Interferons and Inflammation <b>II</b></li> </ul>
<b>Poster Session 2</b>  Oct. 21 (Mon) 13:00-14:30	<ul style="list-style-type: none"> <li>• Cytokine and Anti-cytokine Therapy <b>CA</b></li> <li>• Cytokine Structure and Function <b>CF</b></li> </ul>	<ul style="list-style-type: none"> <li>• Allergic Diseases and Type 2 Immunity <b>AT</b></li> <li>• Mechanisms of Tissue Homeostasis and Repair <b>MT</b></li> </ul>	<ul style="list-style-type: none"> <li>• Cancer Immunology and Immunotherapy <b>CI</b></li> <li>• T Cell Immunity <b>TC</b></li> </ul>
<b>Poster Session 3</b>  Oct. 22 (Tue) 13:00-14:30	<ul style="list-style-type: none"> <li>• Immunometabolism <b>IB</b></li> </ul>	<ul style="list-style-type: none"> <li>• Innate Immunity and Myeloid Cells <b>IM</b></li> </ul>	<ul style="list-style-type: none"> <li>• Autoimmunity and Rheumatic Diseases <b>AR</b></li> <li>• Immune Deficiency and Transplantation Immunology <b>IT</b></li> <li>• Systems Approaches in Precision Medicine <b>SP</b></li> </ul>



POSTER 1 | 17:40-19:10, Oct. 20 (Sun)

Poster Area 1

Cytokine Gene Expression and Signaling	
P1-CS001	Interferon regulatory factor 6 determines intestinal epithelial cell development and immunity Austin Wright
P1-CS004	CCL5/CCR5 axis promotes venous thrombus resolution by increasing expression of plasminogen activators and VEGF Mizuho Nosaka
P1-CS005	Cancer cells exploit p53-regulated interleukin signaling in normal B lymphocytes Chenxi Li
P1-CS006	IFI16 regulates cytokine-induced responses in human keratinocytes independent of a role in DNA sensing. Marcin Baran
P1-CS007	Compromised antiviral and immune responses in a cellular model and predicted disease-drug interactions during space travel and microgravity Khalid Khabar
P1-CS008	Utilize Kitl less sheddable mutant mice to explore the mechanism of stem cell factor activation of ADAM protease Yinga Wu
P1-CS010	Modeling human mutations in mice reveals that a single amino acid in the STAT5B SH2 domain is critical for cytokine-induced enhancer activity. Hye Kyung Lee
P1-CS013	Tumor-infiltrating Tc17 cells co-opt type 2 program to acquire protumorigenic potential Choong-Hyun Koh
P1-CS014	STAT3beta represses interferon signaling and thereby contributes to favorable outcomes in acute myeloid leukemia Sophie Edtmayer
P1-CS016	Deciphering the regulation of IL-2 signaling in T cells Suyasha Roy
P1-CS017	Sodium (DSS)-induced colitis via the regulation of IL-22 and IL-6 production in gulo(-/-) mice. Hyovin Ahn
P1-CS018	The crucial role of IL-22 and its receptor in thymus and activation regulated chemokine production and T-cell migration by house dust mite extract Seoyoun Jeong
P1-CS019	SOX4 complexed with STAT6 transcription factor to regulate expression of MTHFD2 in modulating production of NAPDH, cancer stemness and associated with poor prognosis in hepatocellular carcinoma Chi-Neu Tsai

- P1-CS021** The role of cell-to-cell communication in modulating combinatorial TLR responses  
Erick Salvador Rocha
- P1-CS022** Profiling cytokines according to the presence or absence of small-for-gestational age using amniotic fluid retrieved during cesarean section from pregnant women with early-onset preeclampsia  
Shin Kim
- P1-CS023** A new autophagy-activating compound suppresses pathological inflammatory cytokine generation to enhance the antimicrobial actions against mycobacterium abscessus  
Asmita Sapkota
- P1-CS024** Investigation of activation-induced cell death in human T cells treated with OKT3: insights from in vitro and humanized mouse models  
Myeongjin Choi
- P1-CS025** Engineered IFN- $\alpha$ 2 with enhanced IFNAR1 binding exhibits potent antiviral activity in vitro and in a human IFN-I responsive mouse model  
Jianyu Ye
- P1-CS026** The roles of IL-22 and its receptor in the regulation of inflammatory responses in the brain  
Seulgi Shin
- P1-CS027** Integrative analysis of cytokine expression and secretion in engineered CHO cells using cytometry by time-of-flight (CyTOF), flow cytometry, and multi-plex immunoassay (MPI)  
Huan Yuan Chen
- P1-CS028** Molecular mechanisms of ER stress regulating cytokine transcription in CD4<sup>+</sup> T cells  
Hyeonoh Kim
- P1-CS029** Regulatory mechanism of the PERK-eIF2 pathway on cytokine transcription in CD4<sup>+</sup> T cells  
Hayan Im
- P1-CS030** Cytokine interaction networks: a resource for understanding immune pathways  
Marton Olbei
- P1-CS031** Extracellular metallothionein mediates lymphocyte gene expression and cell signaling.  
Michele Maltz-Matyschysk
- P1-CS032** The middle east respiratory syndrome coronavirus (MERS-CoV) ORF4A and ORF4B, stabilize cytokines/chemokines mRNA through activation of MEK/ERK and AKT pathway  
Latifa Al-Haj
- P1-CS033** RNA host response profiling of cerebrospinal fluid for differential diagnosis of inflammatory central nervous system syndromes  
Charles Chiu

- P1-CS034** Interleukin-34 (IL-34) induces differential expression of inflammatory cytokines during monocytic-like differentiation via Jak/STAT and PI-3K/Akt signaling pathways in human Th-p1 and U937 leukemia cells  
Samuel Adunyah
- P1-CS035** Novel cytokine candidate, p40-EBI3 complex ameliorates inflammation bowel disease by targeting of STAT3 signal pathway  
Aram Lee
- P1-CS036** Ulcerative colitis patients have elevated epithelial IL-18  
Melinda Engevik
- P1-CS037** Single-cell transcriptomic profiling reveals MIF-induced steroid resistance mechanisms in severe asthma  
Haeyoon Kwon
- P1-CS038** Tofogliflozin improves mitochondrial function and suppresses inflammatory cytokines in podocytes of DKD  
Akira Mima
- P1-CS039** Harnessing human intestinal organoids for cytokine research in the gut epithelium  
Amy Engevik
- P1-CS040** Bacterial and age-dependent inflammatory responses in BMDMs coinfectd with influenza virus and Streptococcus sp.  
Extanslao Nistal Villan
- P1-CS042** A novel mechanism of inflammatory cell death through IL-17-induced mitochondria-related endoplasmic reticulum membrane formation in osteoarthritis chondrocytes.  
Hyun Sik Na
- P1-CS043** Investigating the TNFa/IL-10 immune regulatory feedback dynamics in macrophages  
Isaiah Yim
- P1-CS044** IL-6 orchestrates macrophage inflammatory programs through STAT3-mediated epigenetic remodeling  
Yebin Park
- P1-CS046** Reprogramming the TME by designing a histone modulator to enhance immune cell infiltration  
Il-Geun Park
- P1-CS047** Immunotoxic effects of organophosphate flame retardants on pro-inflammatory innate immune responses in monocytes and macrophages  
Leila Khani Khouzani
- P1-CS048** Rapid monocyte single cell-type gene expression analysis in PBMC/WB differentiate Kawasaki Disease (KD) and viral infection among fever children  
Nelson Tang
- P1-CS050** Upregulation of SerpinE1 aggravates PM2.5-induced fibrosis in human small airway epithelial cells  
Jihye Bang

## POSTER 1 | 17:40-19:10, Oct. 20 (Sun)

## Poster Area 2

### Antibody and B Cell Biology

- P1-AB002** Investigation of the pathogenesis of GM-CSF autoantibodies isolated from patients with *Cryptococcus* infection  
Yu-Fang Lo
- P1-AB003** PTEN act as a crucial inflammatory checkpoint controlling TLR9/IL-6 axis in B cells  
Ming-Yu Chen
- P1-AB004** Functional and structural investigation of a broadly neutralizing SARS-CoV-2 antibody  
Yi-Hsuan Chang
- P1-AB005** Impaired germinal center formation and antibody production by CD40 in Traf5-deficient mice  
Mari Hikosaka-Kuniishi
- P1-AB006** Anti-Interferon- $\omega$  autoantibodies and severe pediatric adenovirus infection  
Chen-Xuan Kang
- P1-AB007** The alpha 2,8-disialyl motif modulates B-cell receptor signaling  
Ho-Yang Tsai
- P1-AB008** MicroRNA-196a-5p increases apoptosis in B cells through downregulation of FOXO1  
Nayoung Kim
- P1-AB009** Loss of PTEN promotes the differentiation of regulatory plasma cells  
Hsin-Hsin Chen
- P1-AB010** Systemic inflammation in solid tumour malignancy patients impairs generation of de novo SARS-CoV-2 vaccine responses  
Ruth Purcell
- P1-AB012** In vitro differentiation of murine plasma cells by B cell receptor activation  
Hyun-Sup Song
- P1-AB013** T-bet<sup>hi</sup> memory B cells are induced by COVID-19 mRNA vaccine and exhibit robust effector memory features in human  
Jeongsoo Lee
- P1-AB014** Endotoxin-driven intrahepatic CXCR5<sup>hi</sup> B cells are important population for NASH progression through inducing inflammation  
NamHee Kim
- P1-AB015** The effect of type 2 immune responses on the regulation of germinal centers and development of tissue-resident memory B cells against influenza infection  
Eun-Gang Lee
- P1-AB016** Beta-hydroxybutyrate regulates follicular helper T cells to enhance humoral immune responses in mice fed with ketogenic diet  
Do-Bin Ju

- P1-AB017** Clinical implication of human autoantibody against MOG- $\alpha$ 3; nationwide cohort study  
Young Nam Kwon
- P1-AB018** IL-33 expands plasma cells, disrupts germinal centers, and increases autoantibody production  
Eva Conde Garcia
- P1-AB019** CIC-ATXN1L complex regulates marginal zone B cell development and sepsis via ETV4-Notch axis  
Jongseok Park
- P1-AB022** RNA-based expression of virus neutralising monoclonal antibodies in human myeloid cells  
Aparna Shandheep
- P1-AB024** Nonspecific inflammation induces local accumulation of naive-like tissue resident B cells  
Nadine Widjanarko
- P1-AB025** The transcription repressor Bach2 maintains the B-1 cell population via self-renewal  
Jeonghyun Noh
- P1-AB026** The effects of IRG1/itaconate on B cell function  
Younghwan Han
- P1-AB027** Anti-inflammatory phenotypes of B1a cells with releasing mitochondrial DNA upon phosphorothioate-linked guanine/cytosine-based stem-loop oligonucleotides stimulation  
Hyun Jung Park
- P1-AB028** Piezo1 enhances TGF- $\beta$ 1-induced IgA production via Smad3 phosphorylation  
Yoonji Jung
- P1-AB029** Immunological and genomic analysis of phenotype discordant monozygotic twins reveals a novel role of T-follicular helper cells in IgA nephropathy  
Nicholas Steers
- P1-AB030** Defining severe fever with thrombocytopenia syndrome virus(SFTSV)-specific B cell responses of patients with SFTS linked to survival  
Yun Shin Chung
- P1-AB031** Human gingival immune-cell atlas reveals impaired class switching of B cells in aggressive periodontitis  
Byeong Soo Eom
- P1-AB032** Interferon-mediated regulation of B-cell responses to viral infection  
Alana Kirn
- P1-AB033** The contribution of classical complement pathway for neuronal cytotoxicity in multiple sclerosis  
Xiaoli Yu

- P1-AB034** Exploring the heterogeneity of marginal zone B cells using single-cell RNA sequencing  
Sujin Lee

### Mucosal Immunity and Microbiota

- P1-MM002** Group 3 ILCs promote homeostasis and function of the enteric nervous system  
Jordan Zhou
- P1-MM003** ILC3-derived prostaglandin protects from intestinal inflammation and damage  
Veronika Horn
- P1-MM004** The role of the TAM receptor family in the pathogenesis of DSS-induced colitis  
Hae-Jin Seo
- P1-MM005** Modulation of intestinal networks by neutrophils and group 3 innate lymphoid cells  
Anna Fagundes
- P1-MM006** Modulation of intestinal macrophages by NAD<sup>+</sup> enhancement ameliorates gut inflammation  
Young-In Kim
- P1-MM007** Neutrophil extracellular traps promote  $\delta$ Np63+ basal cell hyperplasia in chronic rhinosinusitis  
Suha Lim
- P1-MM008** Competitive colonization of akkermansia muciniphila clades by microbial extracellular vesicles through direct inhibition and immune stimulation  
Hyejin Yoon
- P1-MM009** Mechanisms linking low-grade bowel inflammation with delayed intestinal motility  
Inna Afonina
- P1-MM010** Impact of cAMP reduction in myeloid cells on gut dysbiosis-induced attenuation of influenza virus immunity  
Seongok Park
- P1-MM011** Immunomodulatory effects of probiotic mixture: an approach to alleviate colitis in a mouse model by modulating dendritic cell activation markers and gut microbiota  
Bushra Riaz
- P1-MM012** Soluble sturgeon oil prevents DSS-induced ulcerative colitis via modulating gut microbiota  
Ji-Hyun Park
- P1-MM014** Comparative analysis of tissue-resident Th17 cell responses in acute and chronic vulvovaginal candidiasis  
Eunjin Lee
- P1-MM015** The impact of various diets on type-2 immunity against enteric helminth infection through alteration of the microbiome and metabolome in pigs  
Pernille Klein-Ipsen

- P1-MM016** The comparative study of honey bee-derived lactobacillus in DSS-induced colitis via modulation of NLRP3 inflammasome  
Do-Hyeon Jung
- P1-MM017** Long-term and localized maintenance of MHC I expression on alveolar epithelial type II cells after viral infection  
Chaerim Jeong
- P1-MM018** Enhancement of mucosal vaccine efficacy through synergistic adjuvantivity of imiquimod and NOD2-stimulating bacteria  
Sujin An
- P1-MM021** Biologics that reduce neutrophil extracellular traps in ulcerative colitis  
Min Choi
- P1-MM022** Bile acids direct neutrophils to maintain intestinal homeostasis through NET formation  
YuBin Lee
- P1-MM023** CRIF1 alleviates inflammatory bowel disease by inhibiting Th17 cells and fibrosis with improving dysfunctional mitochondria  
Jin-Sil Park
- P1-MM024** NCHBL-004, a strain of lactobacillus plantarum, effectively manages weight gain induced by a high-fat diet and promotes the production of GLP-1 to regulate blood glucose levels  
Chae-Won Kim
- P1-MM025** Effect of glutamine on gut microbiome of SARS-CoV-2 infected hamster  
Jieun Chae
- P1-MM026** Beyond the barrier: microbial signatures shape dermal innate lymphoid cell function and skin homeostasis  
Bruno Rocha
- P1-MM027** SARS-CoV-2 RNA decay in wastewater is affected by environmental conditions: impact of pH, temperature, microbial concentration, travel time in sewer system  
JooAhn Jung
- P1-MM028** Rosiglitazone exhibits an antifibrotic effect in TGF $\beta$  1-induced intestinal fibrosis  
Arong Gaowa
- P1-MM029** Lectin-ganglioside interaction of pathogenic escherichia coli in the gastrointestinal tract  
Jun-Young Park
- P1-MM030** TBHQ alleviates particulate matter-induced pyroptosis in human nasal epithelial cells  
Dong Chang Lee
- P1-MM031** T cell-dependent IgA regulates intestinal homeostasis by shaping the gut microbiome  
Soojeong Kwon



- P1-MM032** Mechanisms driving inflammatory bowel disease progression in XIAP-deficient Treg cells and microbiota alterations  
Wanchen Hsieh

## POSTER 1 | 17:40-19:10, Oct. 20 (Sun)

## Poster Area 3

### Interferons and Inflammation

- P1-II002** Elucidating the inflammatory profile in chronic heart failure  
Almagul Kushugulova
- P1-II004** Evolution of IFNs and cytokine signaling cofactors from bats to humans  
Aaron Irving
- P1-II005** Interferon  $\gamma$  and tumor necrosis factor coordinately regulate immune-regulated gene 1 induction in activated macrophages.  
Anthony Orvedahl
- P1-II006** Regnase-1/3 controls hematopoietic lineage bias through degradation of Nfkbiz mRNA  
Takuya Uehata
- P1-II007** Single-cell immune landscape in patients with malignancy-associated hemophagocytic lymphohistiocytosis  
Jeong-Eun Kwak
- P1-II008** Type III interferons alter the local cytokine environment to promote disease tolerance following genital HSV-2 infection  
Emily Feng
- P1-II010** Gut microbiota-primed innate tonic responses provides a defensive mechanism against viral neuroinflammation  
Hye Won Cho
- P1-II012** Synthetic interferon exhibits potent antiviral activity across both DNA and RNA viruses with reduced pro-inflammatory gene induction  
Cheyne Kurokawa
- P1-II013** Investigation of inflammatory signalling in the first report of dominant negative OTULIN related autoinflammatory syndrome  
Sophia Davidson
- P1-II014** Roles of the chemokine CXCL12 system in HIV infection-mediated liver inflammation and fibrosis  
Janya Khattiya
- P1-II016** Distinct immune cell landscape in a murine autoimmune lung inflammation model  
Soyeon Kwon
- P1-II017** The anti-inflammatory effect of aptamin C on house dust mite extract-induced inflammation in keratinocytes via regulation of IL-22 and GDNF production  
Tomoyo Agura

- P1-II019** The role of alpha-enolase on the production of interleukin (IL)-32 in Con A-mediated inflammation and rheumatoid arthritis (RA)  
So Young Pang
- P1-II020** Intrahepatic IgA-fibroblast interaction and its impact on inflammation in steatotic liver diseases  
Mihyun Kwon
- P1-II021** Lanosterol accumulation mediated by type-I interferon inhibits mast cell activation  
Ye Liu
- P1-II022** Unraveling the role of IFNAR signaling during SARS-CoV-2 infection  
Lena Mareike Busker
- P1-II023** The regulatory role of IL-17-producing gamma-delta T cells in a laser-induced choroidal neovascularization mouse model  
Yu-Hsiang Hsu
- P1-II024** Data mining of IFNgamma-induced macrophage and atherosclerotic plaque transcriptomes predicts a macrophage-specific role of STAT1 in human atherosclerosis  
Natalia Lopacinska
- P1-II025** Cytokine profiling to differentiate hyperinflammatory conditions: hemophagocytic lymphohistiocytosis, cytokine release syndrome, and sepsis  
Jihwan (John) Kim
- P1-II027** Positive feedback loop of pyrin, IL-18, and IFNgamma drives the pathogenesis of PAPA syndrome  
Wonyong Lee
- P1-II028** IFN- $\gamma$ -mediated interaction between NK cells and monocytes in PFAPA syndrome  
Euri Seo
- P1-II029** Type I IFN response at the placenta contributes to sex-biased neurodevelopmental outcome  
Eunha Kim
- P1-II030** The role of FAM86A as a regulator of NAFLD and melatonin  
Han Gyung Kim
- P1-II031** Propionate, an intestinal microbial metabolite, inhibits osteoarthritis by controlling abnormal cell death and pain in chondrocyte by limiting STING activation signals.  
Se Gyeong Han
- P1-II032** Doublecortin-like kinase 1 highly expressed CD14 monocytes mediates lipopolysaccharide-induced NF- $\kappa$ B activation and acute lung injury  
Pei-Yun Lin
- P1-II033** IFNL1 variants differentially influence gene expression and HBV replication in hepatocytes  
Eric Meissner

- P1-II034** Human IFNs transcriptomic atlas for immune cell subsets at single-cell resolution  
Emma Kuan
- P1-II035** Korean red ginseng relieves the inflammation and oxidative stress induced by pseudo-typed SARS-CoV-2  
HyeonJin Kim
- P1-II036** Cell surface vimentin is a key protein that causes cartilage damage and pain in osteoarthritis  
Joo Yeon Jhun
- P1-II037** Effect of microplastics on inflammatory response in microglia  
Chaerin Kim
- P1-II038** Immune function activation by green tea catechin  
Sumio Hayakawa
- P1-II039** The novel immunobiotic clostridium butyricum S-45-5 ameliorates virus infection in vitro and in vivo  
Kiramage Chathuranga
- P1-II040** MARCH5 promotes NLRP3-NEK7 complex formation and inflammasome activation via ubiquitination of NLRP3  
Kiramage Chathuranga
- P1-II042** Poxvirus envelope protein enhances inflammatory cytokine production and activates NLRP3 inflammasome  
Taylor Roh
- P1-II043** Role of IFN $\gamma$  during tuberculosis infection in mesenchymal stem cells  
Shaina Jamwal
- P1-II044** Fatty acid synthesis inhibitors attenuate SASP by inhibiting cGAS-STING  
Seokhwan Jeong
- P1-II045** Methylcytosine-modified interferon-inducible lncRNA primes MDA5-dependent signaling  
Helene Minyi Liu
- P1-II046** The inhibition of the cGAS/STING signaling pathway by itaconate and succinate, the components of the TCA cycle, in THP-1 cells  
Minhyuk Kim
- P1-II047** CRISPR screens coupled to inflammation reporters as a way to study IFN signaling loss  
Maria Suarez

Infection and Vaccine Immunity

P1-IV002	Therapeutic effects of melatonin on hepatitis caused by coxsackievirus B3 infection Shih-Min Wang
P1-IV003	CD154 as an immunomodulatory adjuvant in CSF E2 subunit vaccine enhances cellular immunity by increasing the antigen-specific positive interferon- $\gamma$ expressing cells Yu-Chieh Chen
P1-IV004	Enhancement of IL12 and IFNs in piglets immunized with a CSFV/PCV2 bivalent subunit vaccine following viral challenges Yu-Chieh Chen
P1-IV005	Innate immune responses against the mRNA component of mRNA vaccine promote cellular immunity through IFN- $\beta$ at the injection site Seongryong Kim
P1-IV006	Recognition of non-self viral mRNAs by the IFIT2 and IFIT3 heterodimer Dustin Glasner
P1-IV007	High-protein diet enhances CD8+ T cell immunity and attenuates disease progression in Mycobacterium avium-infected mice via metabolic reprogramming Sangwon Choi
P1-IV008	Predictive biomarkers of COVID-19 prognosis identified in Bangladesh patients and validated in Japanese cohorts Kazuko Uno
P1-IV009	Nanoparticle B-cell vaccines: role of IFN-secreting T helper cells in immunogenicity balance between target antigens and integrated flagellin adjuvant Vladimir Temchura
P1-IV010	Intramammary infusion of sodium alginate modulates udder immunity by inducing somatic cell cytokine gene expression in dairy cows Yu-I Pan
P1-IV011	Th1/2 immune bias established by CD1d-dependent NKT cells governs antibody-dependent enhancement or neutralization of dengue virus Wilfried Saron
P1-IV012	A humanized ACE2 mouse model recapitulating age- and sex-dependent immunopathogenesis of COVID-19 Uni Park
P1-IV013	A multivalent, nucleoside modified mRNA-LNP vaccine protects against Clostridioides difficile infection Alexa Semon
P1-IV014	The impact of Fowl adenovirus-4 (FAdV-4) priming on T cell differentiation in aged mice Jeongho Park

- P1-IV015** Autoantibodies against type I interferons in children with severe COVID-19 infection  
Yu-Pei Chan
- P1-IV016** Mitigating clinical symptoms of dengue virus infection with pan-serotypic inhibitory peptides derived from hepatitis C virus NS5A  
Younghoon Lee
- P1-IV017** Engineered peptides from hepatitis C virus NS5A provide therapeutic potential to Japanese encephalitis  
Minjun Seo
- P1-IV018** Defining the effects of trained immunity on airway epithelial and fibroblast cells during infection  
Sarah Connolly
- P1-IV019** Cell-intrinsic role of IL-27 signaling on T cell proliferation and survival as well as fungal clearance during brain infection with *Cryptococcus neoformans*  
Meiqing Shi
- P1-IV020** Antiviral activity of the chemokine CXCL10 against West Nile virus  
Nicolas Leveque
- P1-IV021** High-yield production of CSFV E2 protein in CHO stable cell line to exploit the CpG-adjuvanted subunit vaccine  
Chi-Chih Chen
- P1-IV022** Skin innate immune response to Usutu virus infection  
Magali Garcia
- P1-IV023** Dysregulated hematopoiesis drives hematological abnormalities in severe fever with thrombocytopenia syndrome  
Kyeongseok Jeon
- P1-IV024** Pathogenesis and immune responses of a Japan-like infectious bronchitis virus strain isolated in Taiwan  
Yu-Wei Tsai
- P1-IV025** Two different memory kinetics by recombinant adenoviral vector vaccines expressing NP antigens of Influenza B virus  
Serin Lee
- P1-IV026** CD83 potentiates the adjuvant in CSF E2 subunit vaccine in the induction of cellular immunity by increasing IFN- and IL-2  
Li-Yun Wang
- P1-IV027** Transient induction of uric acid by emulsion adjuvant is essential for the vaccine immunogenicity through stimulating dendritic cells and B cells  
Sun Min Lee
- P1-IV028** Deciphering the complex mechanisms of neuronal dysfunction following ZIKV recovery in mice: insights from transcriptomic analysis  
Nahyun Kim

- P1-IV029** The impact of immune responses from mRNA delivery carriers on vaccine efficacy  
Jihyun Yang
- P1-IV030** Single-cell landscape of studying immune responses in patients with acute to Hepatitis A virus infection  
Hosun Yu
- P1-IV031** Intranasal administration of a recombinant protein including adjuvant peptides promotes the induction of mucosal immune response against SARS-CoV-2  
Byeol-Hee Cho
- P1-IV032** Dexamethasone reprograms the growth of mycobacterium after high-dose treatment with rifampicin in mouse macrophages  
Hyo-Jung Kim
- P1-IV033** SARS-CoV-2 spike-specific nasal-resident CD49a+CD8+ memory T cells exert immediate effector functions with enhanced IFN- $\gamma$  production  
Min-Seok Rha
- P1-IV034** Differential induction of stem cell-like memory CD8+ T cells leads to more durable T cell memory by AZD1222 compared to BNT162b2  
Minwoo Jeon
- P1-IV035** The antibody and B cell response to SARS-CoV-2 in patients with solid cancers: the importance of age and recent IV cytotoxic anti-cancer therapy  
Ki Seong Lee
- P1-IV036** Furfurman is a viral vaccine adjuvant that elicits long-term immunity and potent host defense against viral infection  
Hyeong Won Kim
- P1-IV037** IFN- $\gamma$  metabolically reprogrammes human macrophage metabolism and induces trained immunity against infection  
Dearbhla Murphy
- P1-IV038** Levamisole as a viral vaccine adjuvant induces robust host defense through modulation of innate and adaptive immune response  
Min Ja Lee
- P1-IV039** Characterization of distinct immune responses induced by viral vector, mRNA, and protein subunit vaccines  
Junghwa Lee
- P1-IV040** IFN-III has limited impact against Cytomegalovirus placental trophoblast infection and viral cGAS-STING evasion factor pp65 is essential for congenital disease  
K. Yeon Choi
- P1-IV042** Synergistic cytokine control of antifungal immunity in the female reproductive Tract  
Melissa Cook
- P1-IV043** Development of mRNA vaccine expressing a headless hemagglutinin-stem ferritin nanoparticle for broad protection against Influenza viruses  
Youngwon Choi

- P1-IV044** An IL-12 mRNA-LNP adjuvant reveals a novel role for IFN- $\gamma$  in suppression of CD8+ T cell responses to mRNA vaccination  
Emily Aunins
- P1-IV045** A SARS-CoV-2 mRNA vaccine candidate can induce bone marrow suppression in ICR mice  
Jae-Hun Ahn
- P1-IV047** Type I IFN driven IL-27 promotes CD8+ T cell responses to LNP-mRNA immunization  
Anthony Phan
- P1-IV048** Memory CD4+ T cell responses elicited by a DNA vaccine encoding the SARS-CoV-2 spike and nucleocapsid are durably maintained  
Min Kyung Jung
- P1-IV049** Profiling a comparative cytokine/chemokine response in an ex vivo model of whole blood culture with primary and secondary infection of Dengue virus  
Chiou-Feng Lin
- P1-IV050** Interleukin-1 receptor antagonist isoforms cause unique cytokine expression in mice after SARS-CoV-2 mild infection  
Lijia Zhu
- P1-IV051** Protein-energy restriction alters lipid metabolism and accelerates disease progression of Mycobacterium Avium complex pulmonary disease  
Sangwon Choi
- P1-IV052** Impact of rotating night shift work on immune homeostasis among hospital employees during the COVID-19 pandemic  
Chia-Ling Chen
- P1-IV053** Enteroviruses interfere with murine rotavirus replication and are negatively correlated with host immune responses to Rotavirus vaccines  
Josephine Frempong
- P1-IV054** Evaluation of the efficacy of lipid nanoparticle targeting pulmonary neutrophils in mitigating pulmonary injury in SARS-CoV-2-infected K18-hACE mice  
Ha Eun Shin
- P1-IV055** Local and remote tissue-specific macrophage responses during urinary tract infections  
Nicholas Steers
- P1-IV056** Single-dose intranasal administration of the adenovirus vector-based vaccines for G and M2 protein of respiratory syncytial virus (RSV) A2 strain provides protection against both RSV A and B infection  
Eunju Jang
- P1-IV057** Pancreatitis caused by Coxsackievirus type B3 is exacerbated by IL-22 because it increases STAT3-related viral replication  
DaeJoon Kim

- P1-IV060** Analysis of vaccine-induced immune response of BCG:eSX-1 Mmar for identifying key protection factor of tuberculosis vaccine  
Minchul Park
- P1-IV061** Antiviral mechanisms of saucerneol from saururus chinensis against Enterovirus A71, coxsackievirus A16, and Coxsackievirus B3: involvement of mitochondrial ROS and the STING/TBK-1/IRF3 pathway  
Seo-Hyeon Mun
- P1-IV062** Induction of SARS-CoV2-Spike expression promotes autoimmune response and induces nephritis and lung fibrosis in systemic lupus erythematosus  
YeonSu Lee
- P1-IV063** The single-stranded RNA adjuvant increases germinal center B cell proliferation and antibody-secreting B cells in the bone marrow  
Jiyoung Bang
- P1-IV064** Adhesion molecule triggered immune response skews the sodium antimony gluconate mediated therapy for a predominant Th1 response in experimental visceral leishmaniasis infection  
Sukrat Sinha
- P1-IV065** Alzheimer's disease risk associated with changes in Epstein-Barr virus nuclear antigen 1-specific epitope targeting antibody levels  
Jaekyeung An
- P1-IV066** Evaluation of antibody-dependent cellular phagocytosis induced by COVID-19 mRNA vaccines  
Sivilay Xayaheuang
- P1-IV067** Evaluation of the antibody-dependent cellular cytotoxicity of antibodies induced by SARS-CoV-2 infection and vaccination  
Ji Yun Noh
- P1-IV068** SARS-CoV-2 spike protein accelerates systemic sclerosis by increasing inflammatory cytokines, Th17 cells, and fibrosis  
Ha Yeon Jeong
- P1-IV069** Malaria tolerance - controlling T cell cytotoxicity as a means to attenuating severe disease risk  
Adam Harding
- P1-IV070** SARS-CoV-2 nucleocapsid enhances viral infectivity through interaction with TLR2/4 and upregulation of serine proteases: a potential therapeutic target for COVID-19  
Doo-Jin Kim
- P1-IV071** Memory T cells subpopulations in a cohort of COVID-19 vaccinated or recovered subjects  
Giovanna Romeo
- P1-IV072** Blood-brain immune interface in COVID-19  
Jae Kyu Ryu



- P1-IV073** Discovery of a small-molecule inhibitor targeting the biofilm regulator BrpT in *Vibrio Vulnificus*  
Wonwoo Choi
- P1-IV074** Direct interaction between HMGB1 and SARS-CoV-2 spike protein facilitates viral infection  
Su Ful Jung
- P1-IV075** Influenza viral matrix 1 protein aggravates viral pathogenicity by inducing TLR4-mediated reactive oxygen species production and apoptotic cell death  
Chang-Ung Kim
- P1-IV076** Enhanced treatment of pulmonary aspergillosis via inhaled itraconazole nanoparticles-in-microparticles  
Hee-Sung Lee
- P1-IV077** Distinct phenotypes and functions of bone marrow-derived dendritic cells in mice resistant and susceptible to *Mycobacterium tuberculosis* infection  
Hyeong Woo Kim
- P1-IV078** Self-assembling sulfated lactobacillus exopolysaccharide nanoparticles as adjuvants for SARS-CoV-2 subunit vaccine elicit potent humoral and cellular immune responses  
Suquan Song

POSTER 2 | 13:00-14:30, Oct. 21 (Mon)

Poster Area 1

Cytokine and Anti-Cytokine Therapy	
P2-CA001	<p>The influence of pro-inflammatory cytokines on transporter function in blood-brain barrier endothelial cells</p> <p>Amenah Alrabeeea</p>
P2-CA002	<p>A novel therapeutic target for arthritis</p> <p>Kevin Lee</p>
P2-CA003	<p>Essential roles of the oncostatin M receptor-mediated axis in skin wound healing by regulating HGF and TIMP-1 expression on fibroblasts</p> <p>Yuko Ishida</p>
P2-CA004	<p>Respiratory syncytial virus-approved antibody as ligand for anti-idiotypic nanobody-based synthetic cytokine receptors</p> <p>Julia Ettich</p>
P2-CA005	<p>Evaluation of CD25-biased IL-2m activity on non-Treg populations in vitro and in vivo.</p> <p>Kelly Remedios</p>
P2-CA006	<p>Gp130 signaling in pericytes protects from pulmonary fibrosis via regulation of fibrotic macrophages transition</p> <p>Yingying Zhang</p>
P2-CA007	<p>Integrative deep learning model for predicting IL-17A and IL-22 synergistic effects on keratinocyte proliferation in psoriasis using single-cell multi-omics data</p> <p>Rifaldy Fajar</p>
P2-CA010	<p>Keratinocytes rather than antigen presenting cells are critical source of IL-23 in psoriasiform dermatitis</p> <p>Yoonha Lee</p>
P2-CA011	<p>Novel IL-23 reporter mice reveals the cellular and molecular regulation of IL-23 production in mucosal host defense</p> <p>Daiya Ohara</p>
P2-CA012	<p>Tumour-targeted IL15 superagonist improves survival and reduces toxicity in murine solid tumour models</p> <p>Pooja Kaur</p>
P2-CA014	<p>Epithelial mesenchymal transition of keratinocytes promotes fibrosis in secondary lymphedema via TGF signaling</p> <p>HyeungJu Park</p>
P2-CA015	<p>Anti-fibrotic and anti-polyp effects of IL-37 in chronic rhinosinusitis</p> <p>Roza Khalmuratova</p>

- P2-CA016** IL-15, a new tool for cancer and AIDS immunotherapy: treatment with heterodimeric IL-15 and anti-PD-1 decreased the viral reservoir in simian immunodeficiency virus infected macaques under antiretroviral therapy  
George N. Pavlakis
- P2-CA017** Therapeutic potential of anti-interferon- $\gamma$  antibodies in vitiligo  
Cheng-Lung Ku
- P2-CA018** A novel nanobody based IL-18 surrogate cytokine agonist, used alone or combined with immune checkpoint inhibitors, demonstrated synergistic tumor suppression in xenograft mouse model  
Yakun Wan
- P2-CA019** A novel nanobody based IL-10 surrogate cytokine agonist therapy exhibits exclusively immunosuppressive bioactivity  
Yakun Wan
- P2-CA020** The existence of pro-inflammatory marker IL-1 $\beta$  & IL-6 is open window to explore the circadian architecture of the beta cell in type 2 diabetes patients.  
Qulsoom Naz
- P2-CA021** Uncoupling the mitogenic, effector, and regulatory actions of IL-2  
Hrishikesh Pandit
- P2-CA022** Anakinra pilot - a first-in-population clinical trial assessing safety, feasibility and pharmacokinetics of IL-1 receptor antagonist in preterm infants  
Claudia Nold-Petry
- P2-CA023** The effects of glucocorticoids on CCL17 expression and identifying CCL17-inhibiting drugs that can block arthritic pain  
Adrian Achuthan
- P2-CA024** T cell dynamics at a single-cell level in solid cancer patients treated with a long-acting recombinant IL-7  
Jeong Yeon Kim
- P2-CA025** The soluble IL-2 receptor  $\alpha$ /CD25 as a modulator of IL-2 function  
Juliane Lokau
- P2-CA026** rhIL-7-hyFc-sTBRIL, a novel bi-functional fusion protein, enhances the anticancer effect by promoting the recruitment of effector CD8<sup>+</sup> T cells into tumors.  
Youngsik Oh
- P2-CA027** Novel engineered anti-TSLP hybrid traps are potent inhibitors of Th2 immune responses  
Iva Markovic
- P2-CA029** P11838, a novel PEGylated interleukin 2 molecule, selectively expands and activates regulatory T cells, and improves disease activity in the murine delayed-type hypersensitivity model  
Erik Sampson
- P2-CA030** IL-6 selectively suppresses cDC1 specification via C/EBP- $\beta$   
Sunkyoung Kim

- P2-CA031** Additive regulatory effects of 1,25(OH)2D3 with anti-TNF and anti-IL-17A therapies in an ex vivo Th17-driven psoriatic arthritis synovitis model  
Erik Lubberts
- P2-CA032** Preclinical development of a 3rd generation interleukin-2 targeted to inflammatory sites (IL-2IT)  
Monica Cuevas Martinez
- P2-CA033** NMR-based structural study of the human GATA-3 zinc finger domain  
Habin You
- P2-CA034** Discovery of stapled-peptide antagonists of IL-4 receptor signaling  
Ahyeon Choi
- P2-CA035** Therapeutic effect of conditioned medium from immortalized stem cells from human exfoliated deciduous teeth against peripheral nerve injury through upregulation of Netrin-1 in a mouse sciatic nerve crush injury model  
Natsuki Yamaguchi
- P2-CA036** Design and development of bio-better antagonists IL-1Ra mutants with improved anti-inflammatory performance  
Mooseok Kang
- P2-CA037** Estrogen-related receptor plays a protective role against radiation-induced intestinal toxicity  
Seulgi Shin
- P2-CA038** Triple-color ELISpot assay to measure IFN- $\gamma$ , TNF- $\alpha$  and IL-5 secreted from phytohemagglutinin-activated peripheral blood mononuclear cells  
JaeWook Hyeon
- P2-CA039** Therapeutic effects of a novel human placental extract against chemotherapy-induced peripheral neuropathy  
Takayuki Yoshimoto

Cytokine Structure and Function

- P2-CF001** Unveiling the latent dynamics of TGFB3: insights into integrin-independent activity and regulatory mechanisms  
Ricardo Irizarry Caro
- P2-CF002** Solution of the IFNL4 receptor complex using CryoEM enabled by protein engineering  
William Grubbe
- P2-CF003** Bacterial expression of O-glycosylated hG-CSF  
Kajal Kamboj
- P2-CF004** Improved bacterial production of type III interferons  
Nicole Thompson

- P2-CF005** Novel cytokine candidate, p40-EBI3 complex regulates pro-fibrotic T cell and B cell and inhibits systemic sclerosis via simultaneous regulation of STAT3/STAT5 signals  
Chae Rim Lee
- P2-CF006** Enhancing the protein fitness of antiviral interferon- $\lambda$  for intranasal prophylaxis against respiratory viruses by computational design  
Jeongwon Yun

## POSTER 2 | 13:00-14:30, Oct. 21 (Mon)

## Poster Area 2

### Allergic Diseases and Type 2 Immunity

- P2-AT001** Th2 cytokines contribute to EoE pathogenesis by initiating STAT3/6-mediated mitochondria-immune signaling axis  
Jazmyne Jackson
- P2-AT002** GPR43 signaling in eosinophils prevents hyperactivation of type 2 immune responses in the small intestine  
Jihyun Yu
- P2-AT003** Clinical implications of neutrophils in type 2 chronic rhinosinusitis with nasal polyps  
Ara Jo
- P2-AT004** IL-9 secreting CD4<sup>+</sup> Trm cells are regulated by ST2<sup>+</sup> Tregs in a chronic allergic lung recall response.  
Wenwu Zhang
- P2-AT005** NRF2 is a spatiotemporal metabolic hub essential for the polyfunctionality of Th2 cells in the lung  
Jahyun Bok
- P2-AT006** The dysfunction of submucosal glands in chronic inflammation of the sinonasal cavity and its relevance to the "one airway, one disease"  
Jae Seok Jeong
- P2-AT007** A novel approach for discovering IL-33 small molecule antagonists through a fluorescence-based binding inhibition assay  
Bonggeun Ahn
- P2-AT009** Oroxylin A suppresses IgE-mediated mast cell activation via the inhibition of Syk pathway  
Hyun-Woo Kim
- P2-AT010** Coumarin derivative alleviates skin inflammatory disease symptom in atopic dermatitis models  
Goeun Han
- P2-AT011** Type-i interferon impairs mast cell activation through lanosterol accumulation and disruption of cortical actin dynamics  
Rema Naskar

- P2-AT012** Prolonged exposure to particulate matter induces lung injury through Th2 immune response and oxidative stress-mediated Nrf2 activation in mice  
Ju A Shim
- P2-AT013** PPARG in eosinophils is required for optimal type 2 immune responses in asthma  
Tirhas Niguse Gebre
- P2-AT014** Strain-dependent effects of probiotic lactobacilli on the eosinophilic and neutrophilic airway inflammation  
Yae-Eun Kim
- P2-AT015** Melatonin alleviates type 2 inflammatory asthma by selectively inhibiting lung ILC2 cytokine and activating nuclear factor erythroid 2-related factor 2  
Jinwoo Kim
- P2-AT016** Assessment of CpG ODN and ovalbumin combination on type I hypersensitivity model in C57BL/6 mice: a comprehensive histological and cytological analysis  
Nyam-Ochir Ganlkhagva
- P2-AT017** Blockade of PI3K- $\delta$  using a novel inhalable formulation improves experimental corticosteroid-resistant fungal asthma: the assessment of transcriptomic effects in the lungs  
Jae Seok Jeong
- P2-AT018** Investigating the impact of aryl hydrocarbon receptor signaling on the immune response in mice during enteric parasite infection  
Alexandra Von Mnchow
- P2-AT019** Intermittent fasting alleviates ILC2-mediated type 2 airway inflammation  
Young Jin Pyung
- P2-AT020** SLC27A2 marks lipid peroxidation in nasal epithelial cells driven by type 2 inflammation in chronic rhinosinusitis with nasal polyps  
Jaewoo Park
- P2-AT021** Regulation of thymic stromal lymphopoietin (TSLP) by epigenetic factor in patients with allergic rhinitis  
Junhyoung Byun
- P2-AT022** Expression of IFN-stimulated genes in the airways in predicting individuals with refractory asthma and pharmacological response to inhaled corticosteroids  
Shukhrat Ziyadullaev
- P2-AT023** The prostaglandin D2 receptor CRTH2 regulates intestinal epithelial responses during and after helminth-induced type 2 inflammation  
Tighe Christopher
- P2-AT024** Role of host iron metabolism in type 2 immune responses to helminth infection  
Alejandra Lopez Espinoza
- P2-AT026** Distinct immune signatures and therapeutic implications of pediatric atopic dermatitis revealed through single-cell transcriptomic analysis  
Soyoung Jeong

- P2-AT027** Nano-graphene oxide attenuates ovalbumin/aluminum hydroxide-induced skin inflammation by down-regulating Th2 immune responses in BALB/c mice  
Hyun Jung Park
- P2-AT028** Endotype classification for pSTAT6 targeting immunotherapy in atopic dermatitis patients  
Chaeyoon Kim
- P2-AT029** Pathophysiology of dupilumab-associated head and neck dermatitis: an integrated analysis of microbiome and cytokinome  
Wanjin Kim
- P2-AT030** The impact of inflammation-driven periostin on osteitis in eosinophilic chronic rhinosinusitis  
Soo-in Kim
- P2-AT031** IL-25/IL-33-dependent bystander-activated PD-1+ memory-phenotype CD4 T cells exacerbate lung fibrosis  
Min-Ji Cho
- P2-AT032** Development of asthma vaccines by manipulating enzyme activity of protease allergen  
Youngeun Lee
- P2-AT033** Mast cell IL-33 signalling in intestinal helminth infection  
Nicole Ong
- P2-AT035** Amygdalin alleviates atopic dermatitis-like skin lesions via inhibition of Th2 immune response  
Seon-bin Won
- P2-AT038** Inhibitory effects of clerodendrum trichotomum extract on immediate allergic reactions  
Jae Yeon Lee
- P2-AT042** Targeting granzyme B in skin inflammation: cynaroside's therapeutic potential in atopic dermatitis  
Seon Sook Kim
- P2-AT043** TM6IM6 regulates ER stress and inflammation in refractory asthma  
Ahsan Ullah
- P2-AT045** Interleukin-33 activated basophils promote allergic airway inflammation by regulating Th2 cell entry into lung tissue  
Martijn Schuijs

### Mechanisms of Tissue Homeostasis and Repair

- P2-MT002** Estrogen receptor activation inhibits colitis by promoting NLRP6-mediated autophagy  
Zhangshan Gao

- P2-MT003** Epidermal Blimp-1 deficiency-associated barrier dysfunction and microbial dysbiosis cause atopic dermatitis-like skin inflammation  
Hao-Wen Yang
- P2-MT004** Nintedanib alleviates metabolic-associated fatty liver disease in mice by elimination of activated fibroblasts  
Sung Woo Cho
- P2-MT005** Repetitive exposure to aspergillus antigen induces type 17 inflammation accompanied by alveolar epithelial cell differentiation  
Kiyoshi Hirahara
- P2-MT006** Influenza virus infection instigates a unique and pathogenic ER stress and unfolded protein response in human nasal epithelial ciliated and goblet cells  
Alan Hsu
- P2-MT007** Human parainfluenza virus 3 infection elicits a glycolytic shift and inflammatory response in human nasal epithelial ciliated and goblet cells  
Alan Hsu
- P2-MT008** Identification of TGF $\beta$ 1-upregulated senescent fibroblasts in keloids  
Karen Yamamoto
- P2-MT009** Effects of mechanical stress and hyperglycemia on senescence in skeletal muscle  
Dain Kasseki
- P2-MT010** Cellular senescence in the hippocampus regulates resilience to chronic stress by secreting neurogenic/protective factors  
Tsukasa Sato
- P2-MT011** Development research of novel 3D heterospheroid technology for effective treatment of sarcopenia  
Yunhwa Jeong
- P2-MT012** Senescent neural progenitor cells increased neurite outgrowth in mouse model of autism spectrum disorders  
Maki Miyajima
- P2-MT013** Characterization of healer-specific senescent fibroblasts in diabetic foot ulcer by single-cell RNA-seq analysis  
Naohiro Ueda
- P2-MT014** Skeletal muscle ILC2-driven AREG enhances muscle regeneration in acute muscle inflammation  
Hwanseok Gong
- P2-MT015** Temporal interactome analysis of ligand-receptor signaling in muscle regeneration  
Woo Seok Byun
- P2-MT016** Experimental strategy for macrophage-specific gene manipulation in a mouse model of atherosclerosis regression  
Soobin Chang



- P2-MT017** Epithelial NF- $\kappa$ B coordinates type-17 immunity to initiate chronic inflammatory skin disease  
Snehlata Kumari
- P2-MT018** Spatial transcriptome profiling in mouse wound healing model  
Sowon Choi
- P2-MT019** Spatiotemporal cellular dynamics of germinal center reaction in COVID-19 lung draining lymph node based on imaging-based spatial transcriptomics  
YoungMin Woo

## T Cell Immunity

- P2-TC001** T cell hybrid immunity against SARS-CoV-2 in children: a longitudinal study  
Martin Daniel Qui
- P2-TC003** Memory-phenotype CD4 T cells differentiate into Th1 and Treg cells to contribute to tumor immunity while inhibiting graft-versus-host disease  
Ziying Yang
- P2-TC004** IL-12 signaling in regulatory T cells: like protein powder in bodybuilding  
Anna Estrada Brull
- P2-TC005** Ikzf1 association with Foxp3 for Foxp3-dependent gene repression in Treg cells: disruption of the association causes autoimmunity  
Kenji Ichiyama
- P2-TC006** Bystander Th17 activation and its functional impact on heterologous challenge  
Shweta Sabu
- P2-TC007** Deficiency of myeloid-specific type 2 receptor alleviates DSS-induced colitis by increasing Th17 cell population  
Jae-Eun Seo
- P2-TC008** Transient inhibition of type I interferon enhances CD8<sup>+</sup> T cell stemness and vaccine protection  
Benjamin Broomfield
- P2-TC009** Naturally arising memory-phenotype CD4<sup>+</sup> T lymphocytes contain an undifferentiated subpopulation that can differentiate into functional Th1, Th17, and Treg cells  
Akihisa Kawajiri
- P2-TC010** Divergent cytokine and transcriptional signatures control functional T follicular helper cell heterogeneity  
Joanna Groom
- P2-TC013** Pharmacodynamic biomarkers of BMS-986326, a novel IL-2/CD25 fusion protein that induces highly selective and durable expansion of regulatory T cells following administration in healthy volunteers  
Eun Mi Hur

- P2-TC014** Multimodal single-cell analysis unveils the heterogeneity of human liver sinusoidal gammadelta T cells  
Dong-Uk Kim
- P2-TC015** Defining a subset of CD8+ memory phenotype T cells at steady state  
Kyung Na Rho
- P2-TC016** Alloferon ameliorates imiquimod-induced psoriasis by targeting the interleukin-22 receptor and its related factors  
Yejin Kim
- P2-TC017** Identification of cytotoxic CD4(+) population among CD69(-) liver-infiltrating T-cells  
Eun Ji Jang
- P2-TC018** Ssu72 phosphatase is critical for activating alloreactive T cells and T cell-driven pathology in acute graft-versus-host disease  
Hyeonjin Bae
- P2-TC019** Stability of PBMC sample stored in liquid nitrogen for CD markers analysis using flow cytometry  
TaeHyun Kim
- P2-TC020** T cell dysregulation as a determinant of severity and progression in developmental and epileptic encephalopathies  
Leechung Chang
- P2-TC021** Investigating peripheral immune dysregulation in serum and PBMC of autism: insights into immune system contributions to autism  
Juli Choi
- P2-TC022** The multifaceted nature of tissue-resident memory T cells in healthy organs  
Hyun Jae Lee
- P2-TC023** Kruppel-like factor (KLF) is a master regulator of thymic innate-like T cells development.  
So Min Lee
- P2-TC024** Gut microbiota regulates the homeostasis of skin dendritic epidermal T cells  
YoonGyu Shim
- P2-TC025** Loss of ETS1 provokes T cell activation by affecting transcriptional regulation and RNA splicing with its interactomes  
Jonghwi Yoon
- P2-TC026** Regulation of interleukin-4 expression in T cells by mesenchymal stem cells  
Jiyeon Baek
- P2-TC027** Neurons induce exhausted CD73+CD8+ T cell phenotypes to suppress inflammatory responses  
Myeongseong Seo
- P2-TC028** CD25lowFoxp3+ T cells in small intestinal lamina propria contribute to rheumatoid arthritis pathogenicity by promoting conversion into pro-inflammatory Th17 cells  
Sangwon Lee

- P2-TC029** Epigenetic scars in regulatory T cells among patients with chronic hepatitis C virus infection  
So-Young Kim
- P2-TC030** Chronic inflammation from pet store mouse co-housing leads to lasting changes in T cell responses to viral infection.  
Erin Lucas
- P2-TC031** T cell microvilli: antigen sensing and immunological messaging  
Chang-Duk Jun
- P2-TC033** Tif1g regulates stability of regulatory T cells during inflammation  
Eugenio Contreras Castillo
- P2-TC034** Evidence of superantigen-induced T cell activation in SARS-CoV-2-associated multisystem inflammatory syndrome in children  
Sungmin Jung
- P2-TC035** CD40 ligand stimulation affects the number and memory phenotypes of human peripheral CD8<sup>+</sup> T cells  
Haeyoun Choi
- P2-TC036** Establishment of a humanized mouse model of psoriasis diseases following the migration of patient immune cells CD4 and CD8 T cells to the lesion  
Tae Ho Kim
- P2-TC037** The therapeutic effect of S1P recetor signaling inhibitor, FTY720 on immune inflammation and fibrosis with kidney nephritis in autoimmune lupus  
KyoungMin Choi
- P2-TC038** Role of LSP1 in the primary sjogrens syndrome  
Jayhyun Kim
- P2-TC039** Efficient gene deletion of integrin  $\alpha$ -4 in primary mouse CD4 T cells using CRISPR RNA pair-mediated fragmentation  
Taeuk Wi
- P2-TC040** The impact of CD40 blockade on CD154 expression in activated T cells  
Jae Won Jung
- P2-TC042** Establishing antigen-specific tissue-resident memory CD4 T cell model to study their roles in local inflammatory disease  
Bum-Joon Kim
- P2-TC044** Pharmacological inhibition of histone deacetylase 6 impairs differentiation and function of iTreg cells by targeting cell proliferation  
Ji Hyeon Lee
- P2-TC045** Id1 serves as a critical positive regulator of Th9 cell differentiation through the inhibition of Tcf3 and Tcf4  
Ji Hyeon Lee
- P2-TC046** Histone deacetylase 10 mediates deacetylation of Foxp3 and modulates stability  
So Hyun Park

- P2-TC047    A subset of CD44s-hiCD49dlo CD8+ T cells originating from virtual memory T cells provides immune protection against influenza virus infection  
Sung-Dong Cho
- P2-TC049    Multi-omics atlas-assisted discovery of transcription factors for selective T cell state programming  
Kay Chung
- P2-TC050    CD99: a key coordinator of actin-microtubule crosstalk in immunological synapse formation  
Giri Nam
- P2-TC051    Prime and boost strategy with intramuscular and intranasal heterologous influenza vaccine administration provides complete protection with significant cellular immune responses.  
Yujeong Seo
- P2-TC052    Identification of ER stress inducers impairing antitumor T cell functions in ovarian cancer ascites  
Jeongmin Yoon
- P2-TC053    High dimensional immune profiling of multisystem inflammatory syndrome in children (MIS-C)  
Katherine W. Herbst
- P2-TC054    Visualizing the interactome between antigen-specific CD4 T cells and intestinal antigens via hierarchical classification of TCR reactivity  
Jaeu Yi
- P2-TC055    TGF-β broadly modifies rather than specifically suppresses memory CD8 T cells reactivated by pro-inflammatory cytokines or T cell receptor signals  
Alexis Taber
- P2-TC056    Regulating the degradation of cytokine receptors in CD8 T cells  
Mary Tozer
- P2-TC057    IL-17A as a key regulator of regulatory T cell induction and function in immunological homeostasis  
Wai Po Chong

POSTER 2 | 13:00-14:30, Oct. 21 (Mon)

Poster Area 3

Cancer Immunology and Immunotherapy	
P2-CI004	Enhanced tumor response to radiation therapy and reduced systemic toxicity via subcutaneous interleukin 12 administration in pancreatic tumor Fang Hsin Chen
P2-CI005	Epigenetic regulators of clonal hematopoiesis control CD8 T cell stemness during immunotherapy Tae Gun Kang

- P2-CI006** Microbiota-responsive innate-like T-cells are a target of immune checkpoint blockade in cancer  
Joseph Gladstone
- P2-CI008** Early cytokine-driven adaptation of survival pathways in lymphoid cells during targeted therapies  
Charis Teh
- P2-CI009** Ex vivo STAT3 activation in peripheral blood mononuclear cells reveals ongoing systemic inflammation in lung cancer patients  
Young Ju Kim
- P2-CI010** Homeostatic dysregulation of systemic CD8<sup>+</sup> T cell compartment in lung cancer patients  
Sung-Woo Lee
- P2-CI012** Platelets are the primary source of surface PD-L1 expression on peripheral blood mononuclear cells in lung cancer patients correlating with clinical response to ICI therapy  
Saei Jeong
- P2-CI013** Tailoring T cell anti-tumor immunity in hepatocellular carcinoma by exploiting Kupffer cell-guided priming  
Jaeoh Park
- P2-CI014** Lyophilized cancer vaccines loaded with PAMP/DAMP  
Seung Hyun Kim
- P2-CI015** Targeting ENPP1 to optimize STING pathway activation to enhance immune response in cancer therapy  
Jason Baird
- P2-CI016** The combination of NT-I7 and hIL-2/TCB2c promotes the development of an immune-stimulatory tumor microenvironment that enhances the anti-tumor efficacy in combination with checkpoint inhibitors  
Minji Lee
- P2-CI018** CD25 expressed on keratinocytes maintains the homeostasis and enhances anti-tumor immunity of CD8<sup>+</sup> T cells  
Byunghyuk Lee
- P2-CI020** A CRISPR activation screen identifies MUC-21 as critical for resistance to NK and T cell-mediated cytotoxicity  
Hye-In Sim
- P2-CI021** Upregulation of indoleamine 2,3-dioxygenase 1 (IDO1) impairs antigen-specific T cell responses by regulating the expression of cancer-testis antigens  
Yunju Jo
- P2-CI022** Downregulation of TAM receptor family suppresses tumorigenicity of breast cancer  
Hyun-Su Koo
- P2-CI023** Suppression of tumorigenicity in colorectal cancer by resveratrol-derivative  
Seo-Hee Moon

- P2-CI025** CXCL16 producing tumor clones are shaping immunosuppressive microenvironment in squamous cell carcinoma  
Hyun Seung Choi
- P2-CI027** Oral nanoemulsions of docetaxel and atorvastatin induce ferroptosis and boost antitumor immune response in breast cancer  
Inho Lim
- P2-CI028** An orthogonal IL-2/IL-2R-system enhances engineered T cell therapies via a highly functional synthetic effector state and obviates the need for lymphodepletion in solid tumors  
PJ Aspuria
- P2-CI029** STK-012, a first-in-class  $\alpha/\beta$  IL-2 receptor biased partial agonist for the treatment of advanced solid tumors  
PJ Aspuria
- P2-CI031** Activation of RIG-I triggers cell death via a non-canonical signaling in cancer cells  
Seichi Sato
- P2-CI032** Alloferon inhibits IL-22-dependent expression of chemokine receptors and metastasis-related factors in pancreatic cancer  
Hyejung Jo
- P2-CI033** G1TR signaling reinforces anti-tumor immune response via ILC2-derived IL-9 inducing cytotoxic eosinophils  
Young Gyun Ko
- P2-CI034** Switching suppressive PD1 signal into T cell activation signal in CAR T cells enhances anti-tumor efficacy  
Cho I Park
- P2-CI035** Subpopulations of Vg9Vd2 T cells based on usage of V(D)J segments are differentially distributed in the blood and cancer tissues  
Won Joon Oh
- P2-CI036** ELK3: key regulator of immune response in triple-negative breast cancer through cytokine modulation.  
Ki Seo Ryu
- P2-CI037** Dynamic peripheral blood T-cell analysis reveals on-treatment prognostic biomarkers of atezolizumab plus bevacizumab treatment response in hepatocellular carcinoma  
Min Gu Kim
- P2-CI038** Enhanced mitochondrial function and acidic resilience in chemically primed natural killer cells  
Eunchong Maeng
- P2-CI040** Nano-engineering strategy for natural killer cell to overcome immune-suppressive tumor microenvironment  
Hail Park

- P2-CI041** STAT3 in acute myeloid leukemia facilitates natural killer cell-mediated surveillance  
Dagmar Stoiber
- P2-CI042** Targeting Nrf2 enhances anti-tumour immune response of CAR-T cells  
Yuna Jo
- P2-CI043** Exhaustion-mediated activation of ETV4 is crucial for the differentiation of bona fide terminally exhausted CD8<sup>+</sup> T cells  
Dongwook Lee
- P2-CI044** IL-7-primed bystander CD8 tumor-infiltrating lymphocytes optimize the antitumor efficacy of T cell engager immunotherapy  
Kun-Joo Lee
- P2-CI045** Unraveling TME disparities in metastatic NSCLC patients with varied responses to ICB using scRNA-Seq  
Hwajin Choi
- P2-CI046** Enhancing T cell stemness and cytotoxicity in adoptive cancer immunotherapy via Slc3a2 modulation  
Go-Yeon Jung
- P2-CI047** ADAM9 can regulate cytokines secretion in tumor and as a target for cancer vaccine  
Shih-Jen Liu
- P2-CI053** Anti-tumor effects of heat-killed lactobacillus plantarum NCHBL-004 on syngenic melanoma mice model  
Insu Seo
- P2-CI054** Enabling immune checkpoint blockade efficacy in T-lymphopenia by restoring CD8 T cell dynamics with IL-7 cytokine therapy  
Yeon-Woo Kang
- P2-CI056** ADAM9 enhances tumor-infiltrated myeloid-derived immune suppressive cells for lung tumor progression  
Yuh-Pyng Sher
- P2-CI057** Bispecific CAR-NK cells, integrated with NK-specific signaling, enable effect treatment of immune suppressive solid tumors  
Seunghun Shin
- P2-CI058** mRNA-based CAR-NK cells enable efficient screening and selection of novel anti-mesothelin scFvs for effective cancer immunotherapy  
Chung Jooyoon
- P2-CI059** A dual-acting chimeric peptide inhibits tumor growth by inducing immunogenic cell death and inhibiting PD-L1  
Byunghoon Lee
- P2-CI060** A clinical trial combining a tumor targeting immunocytokine (PDS01ADC) and enzalutamide without testosterone lowering therapy in biochemically recurrent prostate cancer  
Ravi Madan

- P2-CI061** The role of protein X+ neutrophils in tumor microenvironment  
Seongju Kim
- P2-CI062** Identification of phenotypically distinct immune cell subsets in advanced gastric cancer and their therapeutic implications  
Suhn Hyung Kim
- P2-CI063** Expression profile of antigen processing and presentation machinery genes is associated with survival of DLBCL patients.  
Hwal-Seok Choi
- P2-CI064** Deciphering the myeloid landscape of triple negative breast cancer through single-cell omics  
Yechan Choi
- P2-CI065** The role of TET enzyme in cancer immunotherapy  
Donghyun Kim
- P2-CI066** Combination of irreversible electroporation and CAR-NK cell immunotherapy enhances anti-cancer effects in hepatocellular carcinoma  
Joo Dong Park
- P2-CI067** Regulation of GRIM19 expression simultaneously regulates STING activity-dependent immune cell activation and gastric cancer cell suppression  
Young Joon Lee
- P2-CI068** A consistent gut microbiome biomarker identified across diverse cohorts enhances cancer immunotherapy  
Dong Jin Park
- P2-CI069** Integrative single-cell RNA-sequencing reveals common molecular mechanisms of immune tolerance in cancer and pregnancy  
Jin Soo Joo
- P2-CI070** Galectin-4 facilitates gastric cancer growth via interaction with truncated O-glycans and activation of the TAK1-p38 MAPK signaling pathway.  
Yiran Tian
- P2-CI071** Immortal Artificial Dendritic Cells (anDCs) for personalized cancer immunotherapy: engineering with immune checkpoint inhibitors for superior T cell activation and tumor regression  
Chaewon Moon
- P2-CI072** Development of the organoid-based high-throughput drug screening platform for immunotherapy  
Soyeon Park
- P2-CI075** Bispecific T cell engager combined T cells demonstrates increased anti-tumor effects and enhanced CD8+ T cell migration  
Jin Hyeong
- P2-CI077** Unveiling the role of TOX in reinforcing the immunosuppressive phenotype of tumor-infiltrating regulatory T cells  
Seyeon Park



- P2-CI078** Increased utilization of methionine by cancer cell leads to elevation of PD-1 expression in CD4 T cells.  
Min-Jung Kim
- P2-CI079** Biological mechanisms of IL-15 and IL-21-augmented CAR T-cell therapy for neuroblastoma  
Natalia Yakobian
- P2-CI080** Enhanced therapeutic efficacy of CTLA4-CD28 chimera-modified CAR-T cells by unexpected mechanisms  
Seoho Lee
- P2-CI081** Membrane-tethered IL-15 and IL-21 enhance the function and persistence of tumor-specific TCRs in a syngeneic melanoma model  
Tina Trautmann
- P2-CI082** Role of TMBIM6 in immune infiltration in glioma: a bioinformatics approach with experimental validation.  
Mohammad Mamun Ur Rashid
- P2-CI083** IL-18 Surrogate Cytokine Agonists (SCAs): overcoming limitations of IL-18 cancer immunotherapy  
Raphael Trenker
- P2-CI084** Type I IFNs differentially alter expanded NK cell and peripheral blood NK cell anti-tumour functions  
Ana Portillo
- P2-CI085** CD96 correlates with leukemic stem cell-mediated pro-tumorigenic activities and inhibitory immune regulation in acute myeloid leukemia  
Yonghun Go
- P2-CI086** Targeting a LPA-X for novel ovarian cancer therapy  
Ahn Jeonghwan
- P2-CI087** Salmonella Gallinarum expressing motility component, fliC, enhances the therapeutic potential  
Thanh Tran Quang
- P2-CI088** Synergistic enhancement of virus-specific CD8 T cell responses by anti-PD-L1/IL-2 combination therapy and long-acting interleukin-7 (NT-I7) during chronic viral infection  
Judong Lee
- P2-CI089** Surface-engineered NK cell-derived small extracellular vesicles induce potent anti-tumor effects in lung cancer cells  
Minju Kim
- P2-CI090** Development of treatment strategy for ovarian cancer via targeting enppb  
Seonyoung Hong
- P2-CI092** Interleukin-15 stimulation enhances anti-tumor activity of TIGIT-deleted allogeneic NK cells combined with radiation therapy in solid tumors  
Tung Uong Nguyen Thanh

- P2-CI093** Decoupling IFN $\gamma$  functional pleiotropy with protein engineering  
Beatrice Ward
- P2-CI094** DUSP6-deficient CD4 T cell escapes the immunosuppression from the bystander B cells and exhibits A superior tumor killing ability  
Yu-Wen Su
- P2-CI095** Dissecting the role of IL-1 $\beta$  in the metastatic tumour microenvironment of high grade serous ovarian cancer  
Angelica Castaneda
- P2-CI096** Casdozokitug, a first-in-class anti-IL27 antagonistic antibody, promotes NK and T cell driven antitumor response in a phase I study in patients with advanced solid tumors.  
Narendiran Rajasekaran
- P2-CI097** Nutrient-dependent regulation of immune response in breast cancer by regulating ER $\alpha$   
Jihyun Shin
- P2-CI098** The synergistic anticancer effects of STAT3 siRNA-encapsulated PLGA nanoparticles targeting to transferrin receptor in cancer cells  
Chan mi Lee
- P2-CI099** Targeting of tumor cells with memory CD8 T cells for cancer immunotherapy  
Yong Woo Jung
- P2-CI100** Development of HER2-targeted canine chimeric antigen receptor-natural killer cells for cancer immunotherapy in dogs  
Geun-Seop Kim
- P2-CI101** Combination anti-IL-6 and anti-MCP-1 therapy enhances NK immune surveillance of HCC cells in hypoxic environment  
Hwan Hee Lee
- P2-CI102** A non-neutralizing IL-X antibody promotes anti-tumor immunity and enhances checkpoint inhibitor efficacy through CD4 $^{+}$  T cells  
Fabian Bick

## POSTER 3 | 13:00-14:30, Oct. 22 (Tue)

## Poster Area 1

### Immunometabolism

- P3-IB002** Intermittent fasting promotes alternative metabolic fluxes leading to memory CD8<sup>+</sup> T cell development and anti-tumor immunity  
Da-Jeong Park
- P3-IB004** Determination of inflammation biomarkers in patients with tradicional and no tradicional CKD  
Andrea Torres Rojas
- P3-IB005** Targeting the PD-1-FABP5 axis modulates adipose tissue ILC2 metabolism in obesity  
Jongho Ham
- P3-IB006** Inhibition of high-fat diet (HFD)-induced obesity by 3-OH Phloretin  
Jeong-Eun Seon
- P3-IB007** Lipid droplet formation regulates eosinophil inflammation  
Tong Wang
- P3-IB008** Itaconate drives mtRNA-mediated interferon via inhibition of succinate dehydrogenase  
Shane O'Carroll
- P3-IB010** SOX4 activates phosphoserine phosphatase (PSPH) in hepatocellular carcinoma cells to modulate M2 macrophages differentiation  
Chia-Lung Tsai
- P3-IB012** Hyperglycemia enhances brain susceptibility to lipopolysaccharide-induced neuroinflammation via astrocyte reprogramming  
Kyung-Seo Lee
- P3-IB013** Control of macrophage inflammatory responses by the HDAC7-RL5P-NRF2 axis  
Divya Ramnath
- P3-IB014** Cholesterol metabolism in dendritic cells regulates neutrophilic asthma by controlling ER stress-PPAR  $\gamma$  balance  
Hayeon Chung
- P3-IB015** CD36 blockade: a novel approach to modulate macrophages in NASH to ameliorate liver-damage and lipid deposition  
Janusz Von Renesse
- P3-IB016** L-arginine substrate competition regulates NO-mediated cellular respiration threshold, survival, and microbial control function in dendritic cells  
Soyeon Gullickson
- P3-IB017** Immunometabolic regulation of enteric viral infection  
Jasmine Wright

- P3-IB018** Fructose regulates inflammatory responses via glycolysis-dependent and independent pathways in human macrophages  
Yeon Jun Kang
- P3-IB019**  $\gamma$ -Aminobutyric acid type A receptor signaling activates inflammatory cytokine production through an immunometabolic shift towards aerobic glycolysis  
Young Jae Kim
- P3-IB020** Low-density and normal-density neutrophils from systemic lupus erythematosus patients exhibit aberrant metabolic features that correlate with disease activity scores.  
Gina Leisching
- P3-IB021** PPAR  $\delta$ -induced fatty acid oxidation in Tregs promotes anti-tumor immunity  
Paul Bunk
- P3-IB022** Heightened mitochondrial respiration in intestinal dendritic cells mediates IL-6 production and Th17 cell differentiation  
Jiyoung Kim
- P3-IB023** TLR4 determines OxLDL-induced lipid droplets in peripheral foamy phagocytes through a mechanism involving pro-inflammatory cytokines  
Yu-Ping Hung
- P3-IB024** Immune characterization of FAM86A transgenic mouse  
Jieun Oh
- P3-IB025** Identifying the mechanism of chondrocyte damage by oxidized LDL interfering with the TFEB-regulated autophagy-lysosome pathway in patients with osteoarthritis accompanied by hyperlipidemia  
Park Sangwoo
- P3-IB026** Bach2 repression of CD36 regulates lipid metabolism-linked effector functions in follicular B cells.  
Eunkyeong Jang
- P3-IB027** Transcriptional repressor Bach2 regulates adipocyte development and maturation  
Inseo Gu
- P3-IB028** PDK1IP controls CD4<sup>+</sup> T cell proliferation by regulating metabolism  
Jeong-Ryul Hwang
- P3-IB029** Infiltrating IL-17A-producing T cell subsets: potential markers of silent chronic inflammation in metabolic syndrome  
Thuy Nguyen-Phuong
- P3-IB030** Effects of USP13 on the aggregation and stability of huntingtin protein  
Jisun Lee
- P3-IB031** PAH gene dysfunction mediated immune impairment in kidney: implication in RCC carcinogenesis  
Seojeong Kim

- P3-IB032** Hyperglycemia-triggered lipid peroxidation destabilizes STAT4 and impairs interferon  $\gamma$  production in Th1 cells from type 2 diabetes patients  
Weixin Chen
- P3-IB033** Cystatins downregulate inflammasome activation via AMPK signaling in macrophages  
Natasa Kopitar-Jerala

## POSTER 3 | 13:00-14:30, Oct. 22 (Tue)

## Poster Area 2

### Innate Immunity and Myeloid Cells

- P3-IM002** STK25 regulates myeloid cell trafficking and effector function during injury and inflammation  
Bharati Matta
- P3-IM003** *Toxoplasma gondii* macrophage migration inhibitory factor shows anti-mycobacterium tuberculosis potential via AZIN1/STAT1 interaction  
Chul-Su Yang
- P3-IM004** Sonic vibration enhances IL-10 expression to exert anti-inflammatory effects  
Huijeong Ahn
- P3-IM005** Amino sugar-enriched fraction of Korean red ginseng extract induces inflammasome priming via the TLR4 signaling pathway  
Huijeong Ahn
- P3-IM006** Investigation into MAL signaling as a mechanistic mediator of IFN $\gamma$ -induced trained immunity  
Isabella Batten
- P3-IM008** Kidney-resident macrophages restrain triggering tubulointerstitial nephritis through unique features  
Minki Hong
- P3-IM009** Aggregated hendra virus C-protein activates the NLRP3 inflammasome.  
Kristian Barry
- P3-IM010** JC2--11, derived from benzylideneacetophenone, attenuates inflammasome activation process  
Gilyoung Lee
- P3-IM011** The role of splenic stromal cells in the innate immune defense against infection  
Andrzej Gruza
- P3-IM012** The essential role of TLR3/TRIF signaling recognition in herpes simplex virus infection: implications for monocyte and NK cell recruitment and activation  
Uyangaa Erdenebileg
- P3-IM013** Novel activation mechanism of plasmacytoid dendritic cells IFN response to fight against human metapneumovirus infection and cell-to-cell spread  
Celia Nuovo

- P3-IM014** Bacterial metallothionein, a unique therapeutic target for ESKAPE pathogens  
Michele Maltz-Matyschysk
- P3-IM015** microglial NLRP3-gasdermin D activation impairs blood-brain barrier integrity through interleukin-1-independent neutrophil chemotaxis upon peripheral inflammation  
Sung-Hyun Yoon
- P3-IM016** Ly6ClowMHCIIhigh monocytes/macrophages contribute to renal fibrosis via fractalkine-X3CR1 axis  
Yuya Iwahashi
- P3-IM017** Lymphoid cell deficiency reduces neuroinflammation and protects against ZIKV-induced neurological disease  
Elizabeth Balint
- P3-IM018** Transient innate immune responses induced by DNA/LION vaccine shape cellular and humoral responses  
Barbara K. Felber
- P3-IM019** The chemokine CCL28 shapes neutrophil responses to mucosal bacterial infection  
Gregory Walker
- P3-IM020** NADPH oxidase 2 inhibition promotes M1-polarization of macrophages in extraneural tissues to enhance resistance to Japanese encephalitis  
Hee won Byeon
- P3-IM021** Aryl hydrocarbon receptor in macrophages suppresses colorectal cancer through STAT1 and TGF-beta signaling pathways  
Seo-Hee Oh
- P3-IM022** Gasdermin deficiency limits the severity of pulmonary disease during influenza A virus infection  
Sarah Rosli
- P3-IM023** The role of aryl hydrocarbon receptor in intestinal macrophage function and immune regulation  
Mee-Sun Kim
- P3-IM024** The protective role of CD206 in colitis-associated colorectal cancer  
Heewon Lee
- P3-IM025** TFEB promotes alternatively activated macrophage polarization and skin repair  
Soeun Park
- P3-IM026** Cellular senescence in lung epithelial cells contributes to aberrant responses of innate immune cells in respiratory virus infection  
Woorim Song
- P3-IM027** AHR as a therapeutic target for pulmonary fibrosis  
JiYeon Baek

- P3-IM028** Unraveling the impact of macrophage-specific HDAC1 deletion on alleviating inflammation and metabolic disruption  
Yoojin Ahn
- P3-IM029** CD38/TRPM2 calcium signaling: a trigger for 25KbPEI-mediated priming of NK cells  
Seung Hee Choi
- P3-IM030** G protein-coupled receptor 43 in neutrophils is required for optimal defense against staphylococcus aureus infection  
Jae-Gon Kim
- P3-IM031** Unveiling the secretome-mediated communication mechanism of natural killer cells  
Seohyun Cho
- P3-IM032** Inter-organ interaction of eosinophils in the progression of non-alcoholic fatty liver disease  
Dongmo Kim
- P3-IM033** Piezo1-mediated mechanotransduction shapes ILC2s responses and lung inflammatory pathways  
MinYeong Lim
- P3-IM034** The association between activation of inflammasome and HLA-B27 in dendritic cells in axial spondyloarthritis  
Jina Yeo
- P3-IM035** Newly identified MHCII-low CD14+ classical monocytes exhibit increased production of inflammatory cytokines and chemokines and enhanced senescent-associated secretory phenotype (SASP) with aging  
Seung Ah Choi
- P3-IM036** Diet-induced metabolic dysregulation in adipose tissue recomposes conventional dendritic cell subset populations  
Jea-Hyun Baek
- P3-IM038** Hippo/Mst signaling regulates retinal microglia homeostasis and ocular inflammation  
Jae Lee
- P3-IM039** CD160 serves as a co-inhibitory receptor in bacterial sepsis by regulating the iNKT-NK cell axis  
Hyojeong Ha
- P3-IM040** Prostaglandin E2 inhibits monocyte differentiation to MHC-II+ proinflammatory macrophage  
Mi Reu Jeong
- P3-IM041** Mesenteric adipose tissue derived-CD127+ ILC1 orchestrates the immune response during acute peritonitis  
Ritsu Nagata

- P3-IM042** Blockade of sirtuin 1 improves lipopolysaccharide-induced acute lung injury in mice  
Jae Seok Jeong
- P3-IM043** DNA methylation is required for dendritic cell function in Staphylococcus aureus skin infection  
Liana Chan
- P3-IM045** Immune dynamics of natural SIV control in baboons  
Luis Giavedoni
- P3-IM046** Dual role of capicua in dendritic cell function: implications for cancer and septic shock  
Youngkwon Song
- P3-IM047** Modulation of protective immunity against mycobacterium avium complex in macrophages and murine models by Peroxisome Proliferator-Activated Receptor alpha (PPAR- $\alpha$ ) deficiency  
Yae rin Jeon
- P3-IM048** Uncovering the neddylation of adaptor ASC action in the formation of speck and inflammasome activity  
Xuefeng Fei
- P3-IM049** Neutrophil activation and their-derived NETs contribute to thrombotic risk in pulmonary PASC  
Juwon Park
- P3-IM050** HIF-2 $\alpha$  shapes the metabolic phenotype of foamy macrophages in atherosclerotic lesion.  
Kyu Seong Park
- P3-IM051** Inflammasomes primarily restrict cytosolic Salmonella replication within human macrophages  
Emily O'Rourke
- P3-IM052** Manganese enhances antiviral cytokine inductions by driving an ATM-TBK1 phosphorylation signaling pathway  
Hongyan Sui
- P3-IM053** The GDF3-SMAD2/3 axis in adipose tissue macrophages induces endotoxemia-mediated inflammation with aging  
In Hwa Jang
- P3-IM054** SARS-CoV-2 infection leads to sustained testicular injury and functional impairments in K18-hACE2 mice  
Stefanos Giannakopoulos
- P3-IM055** Neutrophils fuel non-alcoholic fatty liver disease pathogenesis through lipid delivery  
Sanjeeb Shrestha



- P3-IM056** Estrogen-related receptor is essential for the activation of Th1/Th17 responses in the lung tissues from mice infected with nontuberculous mycobacterial infection  
Sang Min Jeon
- P3-IM057** SIAH1 modulates antiviral immune responses by targeting deubiquitinase USP19  
Asela Weerawardhana
- P3-IM058** TBK1-NQO1 negative feedback loop regulates antiviral innate immunity  
Asela Weerawardhana
- P3-IM065** Alleviating lung inflammation via effective miRNA delivery to alveolar macrophages using extracellular vesicles conjugated surfactant protein A  
Miji Kim
- P3-IM066** Non-classical monocytes with granulocyte-macrophage colony-stimulating factor in systemic sclerosis patients with interstitial lung disease induce scar-associated macrophage activation  
Jee Young Kim
- P3-IM067** Trim38 suppresses hepatic inflammation by regulating macrophage polarization  
Heeyoung Yang
- P3-IM068** Cys106-mediated extracellular HMGB1 homo-dimerization enhances pro-inflammatory signaling  
Man Sup Kwak
- P3-IM069** Deficiency of circadian clock gene Bmal1 exacerbates noncanonical inflammasome-mediated pyroptosis and lethality via Rev-erb-C/EBP-SAA1 axis  
Do-Wan Shim
- P3-IM070** Myeloid cell-expressed TIM-3 regulates lung inflammation in an LPS-induced injury model  
Ki Sun Kim
- P3-IM071** Use of genetic mouse models to understand the function of the long noncoding RNA, GAPLINC, in regulating inflammation in macrophages  
Susan Carpenter
- P3-IM072** Excessive expression of TIM-3 on myeloid cells induces pulmonary inflammation  
Ki Sun Kim
- P3-IM073** The role of RCAN1 in RIPK1-dependent necroptosis: a mechanism for inflammation suppression  
Hee Soo Kim
- P3-IM074** Imiquimod-induced immunogenic adipose tissue destruction in obese mice exacerbates psoriatic skin inflammation  
Jinsun Jang
- P3-IM075** Neutrophils crosstalk with B and T cells through extracellular vesicles  
Hyeung-Wook Shin

POSTER 3 | 13:00-14:30, Oct. 22 (Tue)

Poster Area 3

Autoimmunity and Rheumatic Diseases	
P3-AR002	Coronary artery disease as a rare presentation of Takayasu arteritis in a young Filipino female: a case report Patricia Noreen Bueno
P3-AR003	Disease-associated astrocyte epigenetic memory promotes CNS pathology Hong-Gyun Lee
P3-AR004	Interleukin-18 binding protein regulates mast cell activation and mast cell induced osteoclastogenesis of rheumatoid arthritis Hong Ki Min
P3-AR005	Neogargarooligosaccharides suppress interleukin-1 induced cartilage destruction Hong Ki Min
P3-AR007	Therapeutic effect of human nasal turbinate stem cells and identification of their gene signatures for rheumatoid arthritis Hong Ki Min
P3-AR008	Differentiation and activation of monocytes/macrophages induced by GM-CSF signaling exacerbates synovial inflammation in autoimmune arthritis Hiroki Mukoyama
P3-AR010	The CD25 expression on fibroblast-like synoviocytes exacerbates rheumatoid arthritis by promoting proliferation and Th17 differentiation via IL-6 production Jiyeon Heo
P3-AR011	Tracing analysis of immunological characteristics and development of arthritis by strain backcross from C57BL/6 to DBA1 Soeun Lee
P3-AR012	Integration of single-cell multi-omics profiling for investigating treatment response to tumor necrosis factor alpha inhibitors in patients with axial spondyloarthritis Seulkee Lee
P3-AR013	Biomarkers for predicting successful tapering of TNF inhibitor in radiographic axial spondyloarthritis Hong Ki Min
P3-AR014	The investigation of selective sphingosine-1 phosphate receptor 1&4 modulator to treat alopecia areata mouse model Su-Young Kim
P3-AR015	Long-term use of rituximab reshapes the T-cell compartment in patients with multiple sclerosis Siggeir Brynjolfsson
P3-AR016	Large-scale plasma proteomic analysis identifies proteins and pathways associated with diagnosed rheumatic fever and rheumatic heart diseases Minkyong Song

- P3-AR018** HLA class I-downregulated senescent epidermal basal cells orchestrate skin pathology in systemic lupus erythematosus  
Sena Yamamoto
- P3-AR019** IL-38 is a novel inhibitor of the pattern recognition receptor-interferon axis  
Ina Rudloff
- P3-AR020** Role of 2B4 on V5 T cells in the development of psoriasis-like skin inflammation  
Ye-Jin Park
- P3-AR021** Real-world safety and effectiveness of SB5 (adalimumab biosimilar) for rheumatic diseases in South Korea: a real-world post-marketing surveillance 2nd interim analysis data  
Donghyuk Jang
- P3-AR022** The CD137-CD137 ligand bidirectional signaling system creates an immunoregulatory loop in alloimmune responses  
Minji Kim
- P3-AR023** Mechanistic insights into the steroid-sparing potential of toll-like receptor 7 and 8 inhibition in autoimmunity  
Jia Xin Chow
- P3-AR024** Combined inhibition of TNF/OX40L therapy for synovial microenvironment of rheumatoid arthritis  
Hee Sung Kwon
- P3-AR025** Deciphering immune heterogeneity in response to first-line therapy in patients with multiple sclerosis  
Sungmin Cheong
- P3-AR026** Propofol alleviates IMQ-induced psoriasis by modulating the IL-23/IL-17 axis  
Shih Ya-Fang
- P3-AR027** Kidney hematopoietic stem and progenitor cells induce pathogenic extramedullary myelopoiesis in lupus nephritis  
Hansol Yi
- P3-AR028** Discovering novel treatment candidates for pemphigus vulgaris utilizing multiple spatial transcriptomics  
Jiyeon Yoo
- P3-AR029** The role of anti-PD-1 in psoriatic inflammation via increased IL-17A producing gd T cells  
Jihye Heo
- P3-AR030** The uniqueness of plasma cell in IgG4-related disease and reshaping the immune landscape through B cell depletion  
Hyo Jae Kim
- P3-AR031** Single-cell immune profiling of Behcet disease between active and inactive patients  
Kyungchun Lee

- P3-AR032** Characterization of inflammatory monocyte and its orchestrator niche in psoriatic skin  
Junhan Kim
- P3-AR033** The combination of 5-hydroxymethylfurfural and troxerutin controls inflammatory responses in vitro and in vivo models of psoriasis  
Eui-Kwon Jeong
- P3-AR034** Multiplex analysis for 13 cytokines in pediatric patients with inflammatory conditions  
Sungbin An
- P3-AR035** Normal-density neutrophils from systemic lupus erythematosus patients with secondary antiphospholipid syndrome exhibit increased levels of intracellular IFN $\alpha$  and increased mitochondrial spare respiratory capacity.  
Anjali Yennemadi
- P3-AR036** Interferon signature as a predictor of TNF inhibitor response in ankylosing spondylitis: AIF1 as a delimiting marker  
Woogil Song
- P3-AR037** Complement factor H-related protein 5 alleviates joint inflammation and reduces osteoclast differentiation by disrupting RANKL-JNK signaling in collagen antibody-induced arthritis mouse model  
Chanhyeok Jeon
- P3-AR038** Novel application of established arthritis models identifies cytokine-regulated perturbations in ocular immune homeostasis that coincide with arthritic flares  
Simon Eastham
- P3-AR039** Elucidating the role of IFIH1 in lupus nephritis pathogenesis  
Jacquelyn Gorman
- P3-AR040** Defective ICOS signaling promotes neuropilin-1hi CD4+ T cell responses by affecting the stability of Foxp3+ regulatory T cells in systemic lupus erythematosus.  
Su-Min Kang
- P3-AR042** A three-stage differentiation pathway for highly arthritogenic CD103- CD200+ Th17 cells  
Yusuke Takeuchi
- P3-AR043** The impact of extracellular histones on macrophage cytotoxicity and inflammatory responses  
Eungyeol Shin
- P3-AR045** Cardiovascular inflammation and Wnt signaling dynamics in spondyloarthritis: HLA-B27 TG rat model findings  
Seong R. Kwon
- P3-AR046** STAT3+CXCR3+IL-17+ expressed T cell induced systemic sclerosis with humanized mouse model for studies on patient-customized therapy  
JeongWon Choi

- P3-AR047** A rare case of IgG4-related disease presenting as a sternal mass with bone lesions  
Jihong Bae
- P3-AR048** A novel therapeutic effect of VEGF decoy receptor fusion protein, VEGF-Grab, in inflammatory arthritis and multiple sclerosis  
Hee-Young Lee
- P3-AR050** Pathogenic antigen vimentin immunization induced a patient-mimicking systemic sclerosis model via activation of autoimmune T cells, B cell and fibrosis  
Chae Rim Lee
- P3-AR051** Mitochondrial transplantation ameliorates autoimmune arthritis by targeting of synoviocyte and T cells with abnormal autophagosome accumulation, and inflammatory cell death  
Aram Lee
- P3-AR052** IL-17+CD8+TRM promotes psoriasis in IL-1RaKO mice model  
Tae Ho Kim
- P3-AR053** Divergent effects of methotrexate and tumor necrosis factor blockade on the immunopathology of interstitial lung disease in rheumatoid arthritis  
Seyoung Jung
- P3-AR054** Mitochondrial STAT3 gene transfer ameliorate autoimmune arthritis via targeting of Th17 and synovial fibroblast  
Seon-Yeong Lee
- P3-AR055** Rebamipide attenuates renal manifestations via antioxidant effects on podocytes in an animal model for systemic lupus erythematosus  
Youngjae Park
- P3-AR056** Effects of microplastics on inflammatory cytokine secretion in synoviocytes of rheumatoid arthritis  
Su-Hyun Lee
- P3-AR057** PKC- $\eta$  controls Treg cell differentiation and experimental autoimmune encephalomyelitis  
Gil-Ran Kim
- P3-AR058** Synthetic glabridin derivatives improves sjogrens syndrome by regulating Th17 and B cells and salivary gland regeneration  
Jin-Sil Park
- P3-AR059** Distinct immunopathogenesis of chronic recurrent multifocal osteomyelitis discovered through single-cell RNA sequencing  
Yewon Moon
- P3-AR060** Single-cell analysis of psoriasis with coexisting systemic lupus erythematosus provide insight into the transcriptomic landscape before and after the treatment with IL-23 inhibitor, guselkumab  
So-Jung Choi

- P3-AR061** Metformin conjugated with gold nanoparticles inhibit profibrotic Th17 cell and plasma cells ameliorates autoimmune systemic sclerosis with skin and lung fibrosis  
Su Been Jeon
- P3-AR062** Deficiency of Leukocyte-specific Protein 1 (LSP1) in T cells exacerbate the pathogenesis of systemic lupus erythematosus  
Yingjin Li
- P3-AR063** Novel cytokine candidate, P40-EBI3 complex ameliorates experimental autoimmune encephalomyelitis with inflammation and demyelination via targeting STAT3/Th17 immune activation  
Su Been Jeon
- P3-AR064** Establishment of a humanized mouse model of inflammatory bowel diseases with the migration of patient immune cells, Th17 and Tc17 to colon  
Kang Hae yeon
- P3-AR065** Ezetimibe inhibits intestinal inflammation in an acute colitis mouse model by regulation of IL-23R/STAT3 activation and intestinal fibrosis  
Kang Hae yeon
- P3-AR066** Vimentin neutralizing antibody suppresses autoimmune arthritis via targeting cell surface vimentin induced immune inflammation and fibrosis  
Park Jin Hyung
- P3-AR067** Human iPSC derived mitochondria transplantation regulates IL-17/Th17 cell activation and intestinal fibrosis and suppresses inflammatory bowel disease  
Sang Hee Cho
- P3-AR068** SIRT1 deficiency in CD4+ T cells exacerbates systemic lupus erythematosus through regulating follicular helper T cell differentiation in mice model  
Hao Jin
- P3-AR069** Newly discovered regulatory T cell in autoimmunity  
So-Eun Bae
- P3-AR070** GRIM-19-mediated induction of mitochondrial STAT3 alleviates systemic sclerosis by inhibiting fibrosis and Th2/Th17 cells  
Ha Yeon Jeong
- P3-AR071** Systemic immune profiling of paired Behcet's disease patients by immune repertoire  
Kyungchun Lee
- P3-AR072** Restoration of effector regulatory T cells via IL-2 co-administration mitigates autoimmune disease following CTLA-4 Ig treatment  
Kyung-Ho Nam
- P3-AR073** Delineating the distinct signaling roles of IRAK4 and TAK1; Potential targets for rheumatoid arthritis  
Scott Scarneo

- P3-AR074** The novel T cell type inducing pro-fibrotic factors by STING-STAT6 signal pathway aggravates scleroderma  
Kun Hee Lee
- P3-AR075** Unique signatures of regulatory T cells from systemic lupus erythematosus patients  
Tzu-Sheng Hsu
- P3-AR076** Assessment of XCI skewing and revealing xci escape region based on single cell RNA sequencing  
Won-Kyoung Cho
- P3-AR077** Gain-of-function STAT3 drives accumulation and dysregulated BCR signalling of self-reactive and atypical CD21<sup>low</sup> B cells  
Etienne Masle-Farquhar

### Immune Deficiency and Transplantation Immunology

- P3-IT001** IL-10 family cytokines in gastrointestinal graft-versus-host disease  
Amir Shamshirian
- P3-IT002** Cord-derived invariant natural killer T cells to improve the outcome of allogeneic stem cell transplantation  
Jin Seon Im
- P3-IT003** The role of IL-38 in the resolution of inflammation in the context of graft-versus-host disease  
Anastasiia Kiprina
- P3-IT004** Cytokine trajectory over time in men and women with HIV on long-term ART  
Christophe Vanpouille
- P3-IT005** A T cell-recruiting bispecific antibody-ligand conjugate (BiALC) for selective depletion of blood group antigen specific B cells  
Hyeong Ryeol Choi
- P3-IT008** RNA-binding protein Arid5a in CD4<sup>+</sup> T cell regulation and graft-versus-host disease (GvHD)  
Kenta Yamamoto
- P3-IT009** Reduced ceramides are associated with acute rejection in liver transplant patients and skin graft and hepatocyte transplant mice, reducing tolerogenic dendritic cells  
Nayoung Kim
- P3-IT010** Generation of a non-surgical in vivo model of colorectal cancer metastasis  
Jeonghyun Kim
- P3-IT011** Withaferin A suppresses the activation of CD4<sup>+</sup>T cells and the following differentiation of B cells  
Gukhui Min

- P3-IT012**    Altered purinergic signaling and CD8+ T cell dysregulation in STAT3 GOF syndrome  
Sarah Henrickson
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