

# *The Past Best Presentation Award Winners*

## **2024: The 53rd Annual Meeting of The JSI**

Dates: December 3-5

Venue: DEJIMA MESSE NAGASAKI

JSI gives an award to the superior presenters in the workshop and poster session of the JSI Annual Meeting. One / Two awardees are selected in an each category by workshop coordinators and chairpersons. This award is supported by BioLegend and Tomy Digital Biology.

### **1. Hematopoiesis and Immune Environment**

WS13-08-O/P

A novel synergistic activity of bHLH transcription factor E2A and Erg instructs B cell lineage commitment by regulating the enhancer landscape  
Reiko Hidaka (Kyoto University)

### **2. B cells**

WS17-07-O/P

Humanized BCR mice are a useful tool for analysis of autoreactive B cells  
Rinka Ito (Kyushu University)

WS25-08-O/P

The COMMD3/8 complex drives plasmablast differentiation of age-associated B cells during extrafollicular responses in lupus  
Taiichiro Shirai (Osaka University)

### **3. T cells**

WS02-12-O/P

Vitamin C treatment enhances the immune responses of CD8+ T cells by upregulation of Batf3  
Kenta Kondo (Shiga University)

WS10-07-O/P

The T cell receptor specificity contributes to Th1-type effector regulatory T cell differentiation  
Shun Yuasa (The University of Tokyo)

WS16-18-P

$\gamma\delta$  T cell-mediated activation of cDC1 orchestrates CD4+ Th1 cell priming in malaria  
Yarob Ibraheem (Nagasaki University)

WS23-17-P

Interleukin 9 Mediates T Follicular Helper Cell Activation for Promoting Antibody Responses  
Ippei Ikegami (Sapporo Medical University)

### **4. Dendritic cells, macrophages, granulocytes**

WS07-08-O/P

TAK1-binding protein 2 (TAB2) suppresses aberrant activation of NLRP3 inflammasome mediated by autocrine TNF- $\alpha$   
Giichi Takaesu (University of the Ryukyus)

WS14-04-O/P

Periportal macrophages protect against commensal-driven liver inflammation

Yu Miyamoto (Osaka University)

WS21-07-O/P

Deficiency of the antioxidant stress response master transcription factor Nrf2 ameliorates IgE-induced anaphylaxis in mice by suppressing IgE-dependent activation of mast cells

Sakura Noguchi (Tokyo University of Science)

WS24-15-O/P

Identification of CIITA degron and ubiquitination site by FBXO11

Yusuke Kasuga (Hokkaido University)

## **5. Cytokines and chemokines**

WS28-09-O/P

Soluble ST2 aggravates asthma by enhancing IL-33-mediated eosinophilic inflammation and cytokine production in ILC2s

Pei-Chi Lo (Osaka University)

## **6. Innate immunity**

WS04-07-O/P

The role of small neutral amino acid transport in macrophage metabolic reprogramming during inflammation

Shota Yasukura (Kyoto University)

WS12-09-O/P

ILC1-Derived Amphiregulin Regulates Epithelial Turnover in Response to Mechanical Stress in the Skin

Tetsuro Kobayashi (RIKEN)

## **7. Mucosal-Skin Immunity**

WS01-04-O/P

Unraveling the transcriptional Regulation of CD4<sup>+</sup> TRM in Crohn's Disease

Mitsuru Arase (Osaka University)

WS09-02-O/P

Novel Metabolites Altered by Appendectomy Lead to Tuft Cell Hyperplasia and Play an Important Role in the Amelioration of Ulcerative Colitis

Shunya Hatai (RIKEN/Osaka University)

## **8. Tolerance and Immune suppression**

WS19-02-O/P

Foxp3 corporates with NFκB to promote endogenous Foxp3 transcription in vivo

Yuxi Wei (The University of Tokyo)

WS27-05-O/P

iPSCs engrafted in allogeneic hosts without immunosuppression induce donor-specific tolerance to secondary allografts

Tomoki Kamatani (Hokkaido University)

## **9. Virus infection Bacterial / mycofungal / parasite infection**

WS08-07-O/P

History of infection and vaccination affects the quality of T cell responses in humans

Dongyun Lu (Kyoto University)

WS15-15-O/P

Sex bias in the immune response to the emerging fungal pathogen *Sporothrix brasiliensis*

Fabio Seiti Yamada Yoshikawa (Chiba University)

WS18-16-O/P

Pilus-based vaccine development to prevent Group A Streptococcal infections

Jacelyn Mei San Loh (The University of Auckland/Maurice Wilkins Centre)

## **10. Immune diseases**

WS06-01-O/P

Distinct proliferative and spatial properties of peripheral helper T cells in rheumatoid arthritis synovium

Yuki Masuo (Kyoto University)

WS20-04-O/P

Ketogenic diet regulates autoimmune neuroinflammation via changes in small intestinal gut microbiome  
Katsuki Yaguchi (RIKEN/Yokohama City University)

WS26-04-O/P

New quantitative and qualitative analytical framework of scRNAseq data reveals the pathophysiology of systemic lupus erythematosus  
Masahiro Nakano (RIKEN)

### **11. Allergy**

WS05-11-O/P

TRPV1-positive vagal sensory neurons suppress eosinophilic lung inflammation through the neuronintrinsic JAK1-CGRP beta axis  
Masato Tamari (National Research Institute for Child Health and Development)

### **12. Tumor immunity**

WS03-11-O/P

Complete humanization of MHC region in mouse  
Teruhiko Suzuki (Tokyo Metropolitan Institute of Medical Science )

WS11-14-O/P

Genetically encoded fluorescent lactate biosensors for investigating tumor-immune microenvironment  
Yusuke Nasu (The University of Tokyo/Japan Science and Technology Agency)

WS22-24-O/P

Deletion of the endoribonuclease Regnase-1 unleashes NK cell anti-tumor activity via OCT2-dependent transcription of Ifng  
Yasuharu Nagahama (Osaka University/Otsuka Pharmaceutical Co., Ltd.)

WS29-04-O/P


Efficient production of CAR-NK cells with a potent antitumor effect using leukocyte progenitor cells  
Jia Han (Tokyo University of Science)



## **2024: The 52nd Annual Meeting of The JSI**

Dates: January 17-19

Venue: Makuhari Messe



JSI gives an award to the superior presenters in the workshop and poster session of the JSI Annual Meeting. One / Two awardees are selected in an each category by workshop coordinators and chairpersons. This award is supported by BioLegend and Tomy Digital Biology.

### **1. Hematopoiesis and Immune Environment**

WS27-13-O/P

DNAM-1 immunoreceptor protects mice from concanavalin A-induced acute liver injury by reducing neutrophil infiltration  
Soichi Matsuo (University of Tsukuba)

### **2. B cells**

WS21-13-O/P

Chronic BCR signaling shapes the generation and maintenance of age-associated B cells from anergic B cells  
Keisuke Imabayashi (Kyushu University)

WS28-14-O/P

Repeated exposure to SARS-CoV-2 Omicron antigens alleviates immunological imprinting and develops Omicron-specific B cells with phenotypically distinctive features  
Ryutaro Kotaki (National Institute of Infectious Diseases)

### **3. T cells**

WS10-13-O/P

CD47 promotes peripheral T cell survival by preventing dendritic cell-mediated T cell necroptosis  
Satomi Komori (Kobe University)

WS17-8-O/P

Thioredoxin-interacting protein is essential for memory T cell formation via the regulation of the redox metabolism

Kota Kokubo (Chiba University)

WS24-24-O/P

Unique structural basis of the recognition of bulky mycobacterial glycolipid by a novel CD1-restricted TCR  
Minori Asa (Osaka University)

#### **4. Innate lymphocytes**

WS20-07-O/P

Type 1 innate lymphoid cells protect the liver from ischemia-reperfusion injury in mice  
Kenshiro Matsuda (University of Tsukuba)

#### **5. Dendritic cells, macrophages, granulocytes**

WS03-05-O/P

FoxO1 regulates the number of basophils in the peripheral tissues and basophil-dependent allergic inflammation

Junya Ito (Tokyo Medical and Dental University)

WS11-05-O/P

EGR2 plays a pivotal role in the differentiation of Ly6Chi monocytes into fibrosis-promoting macrophages  
Ayaka Iwata (Tokyo University of Pharmacy and Life Sciences)

WS18-02-O/P

Direct reprogramming of fibroblasts into functional dendritic cells by defined factors  
Yutaro Kumagai (National Institute of Advanced Industrial Science and Technology)

#### **6. Allergy**

WS05-13-O/P

GATA3 dysfunction in follicular regulatory T cells may underlie selective dysregulation of type 2 humoral immunity in Foxp3A384T mice

Shiki Masumoto (The University of Tokyo)

WS14-08-P/O

Classical monocyte-derived macrophages display high efferocytic ability and contribute to the resolution of basophil-dependent skin allergic inflammation

Kensuke Miyake (Tokyo Medical and Dental University)

#### **7. Cytokines and chemokines**

WS06-15-O/P

IL-18: immune mediator from maternal uterus to placental development  
Hajime Ino (Nippon Medical School)

#### **8. Tolerance and Immune suppression**

WS07-05-O/P

MHC class II limits microbiota-dependent activation of colonic CD8 T cells in a CD4 T cell- and LAG-3-dependent manner

Tomoya Sengiku (The University of Tokyo)

WS13-01-O/P

Overexpression of BATF enhances proliferative and suppressive activities of Treg cells in vivo  
Kohta Matsuura (The University of Tokyo)

#### **9. Virus infection / Bacterial / mycofungal / parasite infection**

WS01-02-O/P

Immunosuppression by CXCR2+ MDSC-like cells exacerbates defense responses of the central nervous system after viral infection

Akisawa Satomi (The University of Tokyo)

WS09-08-O/P

Comprehensive analysis of nasal IgA antibodies induced by intranasal administration of the SARS-CoV-2 spike protein

Nobuyuki Kurosawa (University of Toyama)

WS16-05-O/P

Mycobacterium leprae deactivates a potent PAMP to achieve immune evasion

Shigenari Ishizuka (Osaka University)

## **10. Innate lymphocytes**

WS04-08-O/P

Immune checkpoint molecule Tim3 regulates microglial function and the development of Alzheimer's disease pathology

Kimitoshi Kimura (Kyoto University)

## **11. Mucosal-Skin Immunity**

WS19-16-O/P

The pyruvate-GPR31 axis promotes transepithelial dendrite formation in human intestinal cDC1

Eri Oguro-Igashira (Osaka University)

WS25-05-O/P

Deubiquitinase OTUD3 prevents progression of ulcerative colitis by modulating microbiota-mediated STING activation in intestinal fibroblasts

Bo Li (Osaka University)

## **12. Autoimmune diseases**

WS02-06-O/P

Identification of a novel age-associated CD4<sup>+</sup> T cell subset involved in the pathogenesis of systemic lupus erythematosus

Manaka Goto (The University of Tokyo)

WS12-20-O/P

TNF $\alpha$ -induced adipose-related protein (TIARP) suppresses the pathogenesis of bleomycin-induced pulmonary fibrosis

Haruka Miki (University of Tsukuba)

WS23-18-O/P

Oral bacteria trigger the production of IgA autoantibodies in IgA nephropathy model mice

Mizuki Higashiyama (Tokyo University of Science)

## **13. Tumor immunity**

WS08-02-O/P

Trogocytosis controlled CAR-T cells show enhanced anti-tumor activity

Atsutaka Minagawa (Kyoto University)

WS15-06-O/P

A DLL3-targeting trispecific T cell engager with CD3/CD137 dual specific Fabs shows potent antitumor activity in small cell lung cancer models

Ryutaro Iwabuchi (Chugai Pharmaceutical Co., Ltd.)

WS22-05-O/P

Addressing Tumor Heterogeneity by Sensitizing Resistant Cancer Cells to T cell-secreted Cytokines

Yoshinaga Ito (Kyoto University)

## **14. Human Immunology (Immunointervention)**

WS26-11-O/P

Quantification of the escape from X chromosome inactivation with the million cell-scale human blood single-cell RNA-seq datasets reveals heterogeneity of escape across immune cells

Yoshihiko Tomofuji (Osaka University)



## 2022: The 51st Annual Meeting of The JSI

Dates: December 7-9

Venue: KUMAMOTO-JO HALL



JSI gives an award to the superior presenters in the workshop and poster session of the JSI Annual Meeting. One / Two awardees are selected in an each category by workshop coordinators and chairpersons. This award is supported by BioLegend and Tomy Digital Biology.

### **1. Hematopoiesis and Immune Environment**

WS22-01-O/P

Critical role of N6-methyladenosine modification deposited by METTL16 in hematopoiesis  
Masanori Yoshinaga (Kyoto University)

### **2. B cells**

WS08-14-O/P

Identification of IgA autoantibodies against glomerular mesangial cells and the target autoantigen using an IgA nephropathy mouse model  
Yoshihito Nihei (Juntendo University / Tokyo University of Science)

WS13-06-O/P

Essential function for EMC1(ER membrane complex subunit1) in Ca<sup>2+</sup> influx and B cell development  
Kazuhiko Kawata (Kyushu University)

### **3. T cells**

WS01-02-O/P

Phosphorylation of Runx proteins control thymocyte fate  
Chihiro Ogawa (RIKEN)

WS10-03-O/P

NRP1 marks a pathogenic self-reactive Th subset in autoimmune disease  
Ben Raveney (NCNP)

WS18-08-O/P

Critical roles of an endoribonuclease N4bp1 in regulating CD8 T cell homeostasis and cancer immunosurveillance  
Guohao Liu (Kyoto University)

WS26-04-O/P

Robust TCR signals control epigenetic conversion of conventional T cells to regulatory T cells through mTORC1-dependent expression of TET proteins  
Tomohide Kinoshita (The University of Tokyo)

### **4. Innate lymphocytes + 10. Innate immunity**

WS05-17-O/P

Aging alters landscape of pulmonary innate lymphoid cells  
Masato Asaoka (RIKEN / Keio University)

WS14-13-O/P

Direct activation of microglia by  $\beta$ -glucosylceramide causes phagoptosis of neurons that aggravates Gaucher disease  
Takashi Shimizu (Osaka University)

WS30-08-O/P

A lethal cross-talk between innate immune and adrenergic receptor signaling  
Shuto Tanaka (Kyoto University)

### **5. Dendritic cells, macrophages, granulocytes**

WS04-01-O/P

Dendritic cells regulate peripheral T cell survival through the CD47-SIRP $\alpha$  signaling  
Yasuyuki Saito (Kobe University)

WS20-19-O/P

The aryl hydrocarbon receptor instructs the immunomodulatory profile of a subset of Clec4a4<sup>+</sup> eosinophils unique to the small intestine

Jun Kasamatsu (Kagoshima University / Washington University)

WS29-11-O/P

The role of RNase T2 in macrophage homeostasis

Ryota Sato (The University of Tokyo)

## **6. Allergy**

WS09-01-O/P

Spontaneous dermatitis associated with elevated sebaceous lipid production in Tmem79-deficient mice  
Keitaro Fukuda (Keio University/ RIKEN)

WS21-06-O/P

Development of a murine model for oral allergy syndrome to identify IgE crossreactive pollen and food allergens

Risa Yamamoto (Juntendo University)

## **7. Cytokines and chemokines**

WS17-12-O/P

Extracellular DJ-1 has an essential role in the induction of sterile inflammation after ischemic stroke  
Koutarou Nakamura (The University of Tokyo / Tokyo Metropolitan Institute of Medical Science)

WS25-15-O/P

DNAM-1 deficiency exacerbates Concanavalin A-induced acute liver injury through neutrophil infiltration  
Soichi Matsuo (University of Tsukuba)

## **8. Tolerance and Immune suppression**

WS16-04-O/P

Antigen-specific stimulation induced peripherally derived Treg cells which establish Treg-specific epigenome and orchestrate oral tolerance

Masaya Arai (Osaka University)

WS24-19-O/P

AIRE leaves footprints on chromatin for immunological self-tolerance

Kenta Horie (RIKEN)

## **9. Virus infection / Bacterial / mycofungal / parasite infection"**

WS03-04-O/P

LILRB3 and LILRA6 recognize bacteria in an allele-specific manner

Gen Hasegawa (Kanazawa University)

WS12-04-O/P

Delayed antigen-specific CD4<sup>+</sup> T-cell induction correlates with lower antibody responses and fewer adverse effects to SARS-CoV-2 mRNA vaccination in older adults

Norihide Jo (Kyoto University)

WS28-01-O/P

Therapeutic efficacy of monoclonal antibodies and antivirals against SARS-CoV-2 Omicron variants in the hamster model

Ryuta Uraki (The University of Tokyo / NCGM)

## **11. Mucosal-Skin Immunity**

WS07-07-O/P

Gut-resident innate lymphoid cells regulate lipid metabolism in response to malnutrition

Takuma Misawa (RIKEN)

WS19-01-O/P

Roles of Disialylated Glycan in the Gut Mucosal Barrier

Mugen Taniguchi (Osaka University / Otsuka Pharmaceutical Co., Ltd.)

## **12. Autoimmune diseases**

WS06-04-O/P

Progressive multiple sclerosis patient-derived gut bacterial strain accelerates neuronal inflammation via intestinal Th17 cells

Daiki Takewaki (National Center of Neurology and Psychiatry)

WS15-05-O/P

Pathogenic neuropsychiatric effect of stress-induced microglial interleukin 12/23 axis in SLE

Yuki Tanaka (Hokkaido University / QST / NINS)

WS31-07-O/P

RNase-induced Fc gamma receptor stimulation of Ro60/SSA- and La/SSB- immune complexes

Ryota Naito (Kyoto University / Osaka University)

### **13. Tumor immunity**

WS02-24-P

AltR on epithelial cells recognizes MHC-I to eliminate precancerous cells

Shiyu Ayukawa (Waseda University)

WS11-14-O/P

Aging-associated and CD4 T cell-dependent ectopic CXCL13 activation predisposes to anti-PD-1 therapy-induced adverse events

Hirotake Tsukamoto (Kyoto University)

WS27-14-O/P

Spermidine activates Mitochondrial trifunctional complex MTP leading to enhanced fatty acid oxidation FAO in CD8+ T cells and stronger anti-tumor immunity in combination PD-1 blockade

Muna Al-Habsi (Kyoto University / Ministry of Health, Oman)

### **14. Human Immunology (Immunointervention)**

WS23-01-O/P

An atlas of transcribed enhancers across helper T cell diversity for decoding human diseases


Akiko Oguchi (RIKEN / Kyoto University)



## **2021: The 50th Annual Meeting of The JSI**

Dates: December 8-10

Venue: Nara Kasugano International Forum -I RA KA -



JSI gives an award to the superior presenters in the workshop and poster session of the JSI Annual Meeting. One / Two awardees are selected in an each category by workshop coordinators and chairpersons. This award is supported by BioLegend and Tomy Digital Biology.

### **1. Hematopoiesis and Immune Environment**

1-C-WS3-10-O/P

RANKL+ cells in the primary ossification center contributes to perinatal bone marrow development

Eriko Sumiya (Kyushu University)

### **2. B cells**

2-C-WS8-14-O/P

Integrin CD11b, a new marker of pre-germinal center IgA+ B cells in murine Peyer's patches

Gao Peng (The University of Tokyo)

2-C-WS14-06-O/P

Differential roles of RUBCN isoforms in the fate decision of germinal center B cells

Chaoyuan Tsai (Osaka University)

### **3. T cells**

1-D-WS4-10-O/P

SCD2-mediated monounsaturated fatty acid metabolism regulates cGAS-STING-dependent type I IFN responses in CD4+ T cells

Toshio Kanno (Kazusa DNA Research Institute)



2-D-WS15-26-O/P

ACC1-expressing pathogenic T helper 2 cell populations facilitate lung and skin inflammation  
Takahiro Nakajima (Kazusa DNA Research Institute)

3-D-WS20-16-O/P

Bone marrow and splenic memory CD4 T cells are differently maintained in terms of cytokine signals, cell adhesion and cellular metabolism  
Uki Kimura (Tottori University)

#### **4. Innate lymphocytes**

3-B-WS18-01-O/P

$\gamma\delta$  T cells regulate differentiation of antigen specific CD4+ T cells during malaria  
Shin-Ichi Inoue (Nagasaki University)

#### **5. Dendritic cells, macrophages, granulocytes"**

2-F-WS11-04-O/P

Loss of Rab7a in dendritic cells causes type 2 autoimmune hepatitis and primary biliary cholangitis  
Shin-Ichiroh Saitoh (The University of Tokyo)

3-E-WS21-06-O/P

Placenta-expressed transcript-1, a novel immunosuppressive molecule, inhibits inflammatory cytokine production during bacterial infection.  
Jun Kasamatsu (Tohoku University)

#### **6. Allergy**

2-D-WS9-08-O/P

LIGHT-LT $\beta$ R Signaling is Essential for Airway Smooth Muscle Remodeling and Asthmatic Airway Hyperresponsiveness  
Haruka Miki (La Jolla Institute for Immunology)

#### **7. Cytokines and chemokines**

3-C-WS19-13-O/P

Manipulating the expression of Regnase-1 by antisense oligonucleotides to counteract inflammatory diseases  
Ka Man Tse (Kyoto University)

#### **8. Tolerance and Immune suppression**

1-A-WS1-15-O/P

Proenkephalin+ regulatory T cells expanded by ultraviolet B exposure maintain skin homeostasis with a healing function  
Hiroaki Shime (Nagoya City University)

#### **9. Virus infection / Bacterial / mycofungal / parasite infection"**

2-A-WS6-06-O/P

Cross-reactivity of pre-existing CD8+ T cells against SARS-CoV-2  
Kanao Shimizu (RIKEN IMS)

3-A-WS17-03-O/P

Dectin-1/IL-15 pathway affords protection against acute invasive aspergillosis by regulating NK cell survival  
Fabio Seiti Yamada Yoshikawa (Chiba University)

#### **10. Innate immunity**

1-B-WS2-13-O/P

LINE-1 activation in the cerebellum drives cerebellar ataxia  
Takehiro Takahashi (Yale University)

#### **11. Mucosal-Skin Immunity**

2-A-WS12-04-O/P

Retention of CD4+ tissue-resident memory T cells by interacting with CD301b+ dermal dendritic cells via CXCL16 in a murine delayed-type hypersensitivity model  
Ryota Asahina (Kyoto University)

## **12. Autoimmune diseases**

2-B-WS7-04-O/P

A distal enhancer regulates RANKL expression in synovial fibroblasts in arthritis  
Minglu Yan (The University of Tokyo)

2-B-WS13-02-O/P

The integrative analysis of large-scale bulk and single-cell RNAseq revealed neuromuscular molecules production by nmTEC in myasthenia gravis related thymoma.  
Yoshiaki Yasumizu (Osaka University)

## **13. Tumor immunity**

1-E-WS5-10-O/P

Targeting poor prognosis leukemia with CD25-targeted chemokine receptor expressing CAR Tcell therapy  
Ari Itoh-Nakadai (RIKEN IMS)

2-E-WS10-07-O/P

STA551, a novel ATP-dependent CD137 agonist improved anti-tumor efficacy of T cell bispecific antibody in vivo.  
Sayuri Horikawa (Chugai Pharmaceutical Co. Ltd.)

2-E-WS16-21-O/P

DNAM-1 promotes inflammation-driven tumor development via enhancing IFN- $\gamma$  production  
Yuhō Nakamura-Shinya (University of Tsukuba)

## **14. Human Immunology (Immunointervention)**

3-F-WS22-06-O/P

Control of naive and effector CD4 T cell receptor repertoires by rheumatoid-arthritis-risk HLA alleles  
Yasuo Nagafuchi (The University of Tokyo)



## **2019: The 48th Annual Meeting of The JSI**

Dates: December 11-13  
Venue: Act City Hamamatsu



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## **1. Hematopoiesis and Immune Environment**

1-H-W6-19-O/P

Accumulation of leukemic cells to the spleen is regulated by a transcription factor Tlx1 expressed in perfollicular mesenchymal cells  
Yusuke Amemiya (Tokyo University of Science)

## **2. B cells**

2-F-W10-19-O/P

Requirement for memory B cell activation in protection from heterologous influenza virus reinfection  
Sarah G Leach (Osaka University)

## **3. T cells**

1-C-W1-16-O/P

The influenza virus replication derived broad protective antibody response  
Kosuke Miyauchi (RIKEN)

2-C-W8-6-O/P

A role of extracellular vesicles in T cell development  
Tomoyoshi Yamano (Kanazawa University)

## **4. Innate lymphocytes**

3-E-W19-5-O/P

The role of group 2 innate lymphoid cells(ILC2) in pulmonary fibrosis

Natsuko Otaki (Keio University)

## **5. Dendritic cells, macrophages, granulocytes**

3-F-W20-3-O/P

Novel DC targeting by allogenic T-cells for multifocal prophylactic antibody production

Hisashi Ueta (Dokkyo Medical University)

3-F-W21-6-O/P

A chemokine signal amplifier FROUNT regulates tumor cell-mediated macrophage activation and migration to tumor sites

Etsuko Toda (Nippon Medical School)

## **6. Allergy**

3-D-W17-12-O/P

Clec10a regulates mite-induced dermatitis

Kazumasa Kanemaru (University of Tsukuba)

3-D-W18-38-O/P

Targeted deletion of TSLP receptor reveals cellular mechanisms underlying acute versus chronic type 2 inflammation

Hiroki Kabata (Keio University)

## **7. Cytokines and chemokines**

1-D-W2-15-O/P

The mechanism for regulation of type 2 cytokine production from ILC2 by Tristetraprolin.

Yuki Hikichi (RIKEN)

## **8. Tolerance and Immune suppression**

1-E-W3-3-O/P

DNAM-1 suppresses Foxp3 stability of regulatory T cells in a TIGIT dependent manner

Kazuki Sato (University of Tsukuba)

## **9. Virus infectionBacterial / mycofungal / parasite infection**

3-C-W15-5-O/P

Circulating extracellular vesicle miR-451a, but not human papilloma virus vaccine, plays a crucial role in an autoimmune disorder

Kana Ishikawa (Kumamoto University)

3-C-W16-3-O/P

Critical role of Irgm2 in host defense mechanism against Toxoplasma gondii

Ariel Pradipta (Osaka University)

## **10. Innate immunity**

1-G-W5-19-O/P

Unwinding of stem-loops by UPF1 licenses Regnase-1 to degrade inflammatory mRNAs

Takashi Mino (Kyoto University)

2-E-W9-6-O/P

Lamtor1/p18 is required for activation of inflammasome

Kohei Tsujimoto (Osaka University)

## **11. Mucosal-Skin Immunity**

2-G-W11-15-O/P

Intestinal Prevotella copri isolated from rheumatoid arthritis patients exacerbates murine models of arthritis

Takuro Nii (Osaka University)

3-G-W22-1-O/P

The impact of fasting on immune cell dynamics and mucosal immune response

Motoyoshi Nagai (Keio University)

3-G-W23-13-O/P

Homeostatic pruning and activity of epidermal nerves are dysregulated in barrier-impaired skin during chronic itch development

Sonoko Takahashi (RIKEN)

## **12. Autoimmune diseases**

2-B-W7-1-O/P

Human TLR7 deficiency results in autoimmune conditions

Natsuko Yamakawa (National Institutes of Biomedical Innovation, Health and Nutrition)

3-B-W13-21-O/P

Inflammasome drives release of mitochondrial DNA enclosed in extracellular membrane vesicles and propagation of inflammation in Bechet disease

Hachiro Konaka (Osaka University)

3-B-W14-2-O/P

Survival of peripherally derived monocytes in the CNS is crucial for EAE relapse

Nobuhiko Takahashi (Hokkaido University)

## **13. Tumor immunity**

2-H-W12-1-O/P

Sequestration of T cells in bone marrow in the setting of glioblastoma and other intracranial tumors

Shohei Koyama (Osaka University)

3-H-W24-7-O/P

An inhibitory immunoreceptor CD300a suppresses tumor infiltrating Treg cells and tumor development through binding to phosphatidylserine on tumor-derived exosomes

Yuta Nakazawa (University of Tsukuba)

3-H-W25-17-O/P

Antibody-mediated transient depletion of CD4+ cells enhances the remodeling of the T-cell receptor repertoire and promotes anti-tumor immune responses in cancer patients

Hiroyasu Aoki (Tokyo University of Science)

## **14. Human Immunology (Immunointervention)**

1-F-W4-6-O/P

Creation of HLA class I and class II Tg NOD/SCID/II2rgKO (NSG) mice for studying interaction between human immunity and leukemia


Ari Itoh-Nakadai (RIKEN)



# **2018: The 47th Annual Meeting of The JSI**

Dates: December 10-12

Venue: Fukuoka International Congress Center



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## **Category-1. Hematopoiesis and Immune Environment**

1-C-WS3-13-O/P

CD150<sup>high</sup> Bone Marrow Tregs Maintain Hematopoietic Stem Cell Quiescence and Immune Privilege via Adenosine

Yuichi Hirata (Columbia Univ.)

1-C-WS4-3-O/P

Characterization of thymic fibroblast subsets

Masanori Tsutsumi (The Univ. of Tokyo)

## **Category-2. B cells**

1-D-WS5-10-O/P

Metabolic control of germinal center B cell and plasma cell differentiation

Kei Haniuda (Tokyo Univ. of Science)

1-D-WS6-4-O/P

Characteristics of naïve B cells in murine IgA Nephropathy

Yoshihito Nihei (Juntendo Univ.)

### **Category-3. T cells**

2-A-WS14-4-O/P

Roles of Rap1, Talin-1 and Kindlin-3 in lymphocyte homing to peripheral and mucosal lymph nodes

Yuji Kamioka (Kansai Medical Univ.)

3-A-WS23-14-O/P

Low-affinity TCR engagement induces Itm2a to mediate T cell maintenance in the periphery

Moe Shiokawa (Osaka Univ.)

### **Category-4. Helper T cells**

1-H-WS13-4-O/P

Host defense against oral bacteria by bone-damaging T cells

Masayuki Tsukasaki (The Univ. of Tokyo)

1-H-WS13-15-O/P

Cholesterol 25-hydroxylase expressing CD4+ T cell regulates tissue inflammation

Hayato Takahashi (Keio Univ.)

### **Category-5. Innate lymphocytes**

1-B-WS1-5-O/P

$\beta$ 2 adrenergic receptor-mediated negative regulation of group 2 innate lymphoid cell responses

Saya Moriyama (Cornell Univ.)

1-B-WS2-8-O/P

MAIT cells as a new therapeutic target for systemic lupus erythematosus.

Asako Chiba (Juntendo Univ.)

### **Category-6. Dendritic cells and macrophages**

1-E-WS8-3-O/P

A chemokine signal amplifier FROUNT promotes tumor progression by facilitating migration and activation of tumor-associated macrophage

Etsuko Toda (Tokyo Univ. of Science)

1-E-WS7-5-O/P

LPS from lymphoid-tissue resident Alcaligenes induces IgA without excessive inflammation via its weak TLR4 agonist activity.

Naoko Shibata (Waseda Univ.)

### **Category-7. Mast cells & granulocytes**

2-H-WS21-1-O/P

Phosphatidylserine exposure self-regulates mast cells' degranulation

Yaqiu Wang (Univ. of Tsukuba)

2-H-WS21-6-O/P

Histamine released from skin-infiltrating basophils but not mast cells is crucial for acquired tick resistance in mice

Soichiro Yoshikawa (Tokyo medical and dental Univ. (TMDU))

### **Category-8. Allergy**

2-G-WS20-7-O/P

Identification and functional analyses of three dendritic cell subsets accumulating in skin-draining lymph nodes upon the expression of thymic stromal lymphopoietin in the skin

Miyuki Omori-Miyake (Tokyo Women's Medical Univ.)

2-G-WS20-8-O/P

Local skin memory response is mediated by tissue resident memory T cells

Akihiko Murata (Tottori Univ.)

### **Category-9. Cytokines and chemokines**

1-G-WS11-16-O/P

Chronic interferon-gamma signals impair memory CD8 T cell maintenance

Ruka Setoguchi (RIKEN)

1-G-WS12-3-O/P

A division of labour for the type 1 interferon and apoptosis induction after viral infection

Tomohiko Okazaki (The Univ. of Tokyo)

### **Category-10. Tolerance and Immune suppression**

2-C-WS16-13-O/P

Transcription factor JunB is essential for effector regulatory T cell homeostasis and function

Shin-ichi Koizumi (Okinawa Institute of Science and Technology Graduate Univ.)

3-C-WS27-2-O/P

A novel mechanism for induction of tissue-specific immune evasion

Tetsuya Sakurai (Kyushu Univ.)

### **Category-11. Virus infection**

2-B-WS15-7-O/P

In vivo imaging of the pathophysiological changes and dynamics of immune cells in influenza virus-infected mouse lung

Hiroshi Ueki (Univ. of Tokyo)

2-B-WS15-19-O/P

Combating herpesvirus encephalitis by potentiating a TLR3-mTORC2 axis

Ryota Sato (The Univ. of Tokyo)

### **Category-12. Bacterial / mycofungal / parasite infection**

3-H-WS36-1-O/P

Porphyromonas gingivalis negatively regulates host immune responses through inhibitory receptor, Siglec

Yasunobu Miyake (Saga Univ.)

3-H-WS36-17-O/P

Analysis of novel Shigella effector mechanism that regulate host cell death

Hiroshi Ashida (Tokyo Medical and Dental Univ.)

### **Category-13. Endogeneous innate immunity and inflammation**

3-D-WS28-12-O/P

Ribonuclease T2 negatively regulates response of the dsRNA sensor TLR3

Kaiwen Liu (The Univ. of Tokyo)

3-D-WS29-8-O/P

Recognition of phospholipids on dead cells via inhibitory C-type lectin receptor

Chihiro Motozono (Osaka Univ.)

### **Category-14. Mucosal-Skin Immunity**

3-F-WS33-5-O/P

Induction of IFN $\gamma$ -producing CD8 T cells by human derived-commensal bacteria

Takeshi Tanoue (Keio Univ. School of Medicine)

3-F-WS33-4-O/P

Gut microbial metabolite acetate tunes IgA reactivity toward commensal microbes to maintain mucosal homeostasis

Tadashi Takeuchi (RIKEN)

### **Category-15. Tissue-specific immune diseases**

3-B-WS24-7-O/P

Significant associations of human SIGLEC10 polymorphisms with susceptibility to Guillain-Barré syndrome

Xuexin Li (Tokyo Medical and Dental Univ.)

3-B-WS24-10-O/P

TSHR-stimulating autoantibody production by TSHR / MHC class II complexes  
Hui Jin (Osaka Univ.)

#### **Category-16. Systemic autoimmune diseases**

1-F-WS9-1-O/P

Immune cell-type specific multi-omics analysis revealed contribution of mitochondria in Bcells to systemic lupus erythematosus.

Yusuke Takeshima (The Univ. of Tokyo)

1-F-WS10-5-O/P

The Immunogenetics of Inflammatory Mechanisms by Fibroblast-like Synoviocytes from Rheumatoid Arthritis Patients

Haruka Tsuchiya (The Univ. of Tokyo)

#### **Category-17. Tumor immunity**

3-G-WS34-4-O/P

Tumor suppressors of the DAPK family regulate anti-tumor innate immunity through the STING-type I Interferon pathway

Mariko Takahashi (La Jolla Institute for Allergy and Immunology)

3-G-WS35-14-O/P

Distinct transcriptional regulation in tumor-infiltrating regulatory T cells

Yujiro Kidani (Osaka Univ.)

#### **Category-18. Cancer immunotherapy**

3-E-WS30-1-O/P

Combined blockade of IL-6 and PD-1/PD-L1 signaling abrogates mutual regulation of their immunosuppressive effects in the tumor microenvironment

Hirotake Tsukamoto (Kumamoto Univ.)

3-E-WS31-6-O/P

Use of FLIPr as an antigen delivery vector for cancer immunotherapy

Hsin-Wei Chen (National Health Research Institutes)

#### **Category-19. Human Immunology (Immunointervention)**

3-H-WS37-5-O/P

Identification of POGLUT1 as the effector gene in human primary biliary cholangitis (PBC) susceptibility locus chromosome 3q13.33

Yuki Hitomi (The Univ. of Tokyo)

3-H-WS37-22-O/P

Human NK cell development in hIL-7 and hIL-15 knock-in NOD/SCID/IL2rgKO mice

Masashi Matsuda (RIKEN)



## **2017: The 46th Annual Meeting of The JSI**

Dates: December 12-14  
Venue: Sendai International Center



JSI gives an award to the superior presenters in the workshop and poster session of the JSI Annual Meeting. Two awardees are selected in an each category by workshop coordinators and chairpersons. This award is supported by BioLegend, Tomy Digital Biology and Sanofi.

#### **Category-1. Hematopoiesis and Immune Environment**

1-G-W13-9-O/P

Crucial role of CD74 in hematopoietic cell differentiation

Tatsuya Shishido (Osaka University)

1-G-W13-10-O/P

Balancing population sizes of myeloid and lymphoid cells by osteopontin isoforms

Masashi Kanayama (Duke University School of Medicine)

## **Category-2. B cells**

3-E-W34-2-O/P

FcγRIIb plays an important role in maintaining clonal ignorance and prevents pemphigus phenotype in pathogenic anti-desmoglein 3 antibody knock-in mice  
Hisashi Nomura (Keio University School of Medicine)

3-E-W35-3-O/P

Germinal center B cell development by glycolysis and mitochondrial metabolism  
Kei Haniuda (Tokyo University of Science)

## **Category-3. T cells**

3-I-W42-4-O/P

Control of proinflammatory γδT cell development by lineage-specific TCR signaling pathway  
Ryunosuke Muro (The University of Tokyo)

3-I-W43-15-O/P

Systemic metabolic shift induced by PD-1 deficiency perturbs brain monoamines and emotional behaviour  
Michio Miyajima (RIKEN Yokohama Institute)

## **Category-4. Helper T cells**

1-I-W18-8-O/P

The transcriptional repressor Bach2 regulates differentiation of pathogenic Th2 cells  
Makoto Kuwahara (Ehime University)

1-I-W18-10-O/P

IL-10-Producing Tr2 cells Induced by mTOR/CEBPβ Signaling Regulate Hyphal C. albicans Kidney Infection  
Masaki Tajima (NIAID, NIH)

## **Category-5. Innate lymphocytes**

3-B-W28-11-O/P

Role of mucosal-associated invariant T cells in lupus pathogenesis  
Goh Murayama (Juntendo University School of Medicine)

3-B-W29-9-O/P

Innate and adaptive immune cells regulate Paneth cell granule formation and α-defensin secretion  
Mariko Kamioka (The University of Tokyo)

## **Category-6. Dendritic cells and macrophages**

3-C-W30-11-O/P

Early FcγR-ERK signaling determines cytokine profile of dendritic cells through C-type lectin receptors  
Miyuki Watanabe (Osaka University)

3-C-W31-7-O/P

The novel ubiquitin ligase complex, NQO1-PDLIM2 inhibits TLR-dependent production of selective cytokines by degrading IκB-ζ  
Akihiro Kimura (Research Institute National Center for Global Health and Medicine)

## **Category-7. Mast cells & granulocytes**

3-H-W40-21-O/P

STAP-2 is an adaptor molecule to positively regulate basophil activation  
Jun-ichi Kashiwakura (Hokkaido University)

3-H-W40-27-O/P

Basophils exert antigen presentation via trogocytosis-mediated acquisition of peptide-MHC class II complexes from dendritic cells (DCs)  
Kensuke Miyake (Tokyo Medical and Dental University(TMDU))

## **Category-8. Allergy**

1-A-W1-4-O/P

Myosin light chains 9 and 12 are functional ligands for CD69 that regulate airway inflammation  
Koji Hayashizaki (Chiba University)



2-G-W23-1-O/P

The transcription factor EPAS1 links DOCK8 deficiency to atopic skin inflammation via IL-31 induction  
Kazuhiko Yamamura (Kyushu University)

### **Category-9. Cytokines and chemokines**

1-H-W15-9-O/P

RNA Splicing Mediator 1 (RSM1) regulates inflammation via alternative splicing of DNA methyltransferase Dnmt3b

Hironao Suzuki (Hokkaido University)

1-H-W16-4-O/P

Function of BMP2 and BMP7 produced by ILC2 in the adipose tissue  
Yurina Miyajima (RIKEN IMS)

### **Category-10. Tolerance and Immune suppression**

3-A-W26-2-O/P

Single-cell analysis of autoreactive T cells under the control of PD-1  
Hikari Okamura (Tokushima University)

3-A-W26-10-O/P

Antigen-specific immune regulation mediated by TCR-like antibodies  
Kazuki Kishida (Osaka University)

### **Category-11. Virus infection**

1-D-W7-8-O/P

Induction of cell death by imiquimod (R837) and its role in immune responses  
Haruna Okude (Nara Institute of Science and Technology)

1-D-W8-7-O/P

Identification of a novel HIV-1 restriction factor which selectively degrades viral transcripts.  
Daichi Yamasoba (Kyoto University)

### **Category-12. Bacterial / mycofungal / parasite infection**

1-E-W10-12-O/P

Dendritic cell-based vaccination induces lung resident memory Th17 cells that ameliorate pulmonary infection with highly virulent *Cryptococcus gattii*  
Keigo Ueno (National Institute of Infectious Diseases)

1-E-W9-2-O/P

Glycolipids in group A Streptococcus are recognized by Mincle to trigger host immune responses  
Imai Takashi (Kyushu University)

### **Category-13. Endogenous innate immunity and inflammation**

1-B-W3-8-O/P

Intracellular metabolite,  $\beta$ -glucosylceramide, is an endogenous adjuvant acting through Mincle  
Masahiro Nagata (Osaka University)

1-B-W4-8-O/P

Mechanisms for the regulation of adipose tissue expansion and remodeling by group 2 innate lymphoid cells  
Kafi N. Ealey (RIKEN IMS)

### **Category-14. Mucosal-Skin Immunity**

2-A-W19-3-O/P

Microbial fermentation product butyrate Ameliorates Autoimmune Arthritis.  
Daisuke Takahashi (Keio University Faculty of Pharmacy)

2-A-W19-8-O/P

17,18-EpETE, a metabolite of omega-3 essential fatty acids, inhibited neutrophil mobility and ameliorated skin inflammation in DNFB-induced contact hypersensitivity model  
Takahiro Nagatake (National Institutes of Biomedical Innovation, Health and Nutrition (NIBIOHN))

### **Category-15. Tissue-specific immune diseases**

3-H-W41-13-O/P

Mesenchymal-myeloid cell interactions in renal microenvironment for pathological fibrogenic machinery in kidney fibrosis

Yosuke Kurashima (The University of Tokyo)

1-C-W5-1-O/P

Eomes-positive cytotoxic T helper cells: a new pathogenic immune cell subset in secondary progressive multiple sclerosis?

Ben Raveney (NCNP)

#### **Category-16. Systemic autoimmune diseases**

3-G-W38-1-O/P

IFN- $\gamma$ -T-bet mediated metabolic reprogramming in T helper 1 cells and its relevance to pathogenesis of SLE

Shigeru Iwata (University of Occupational & Environmental Health)

3-G-W38-3-O/P

Comprehensive analysis of genome and transcriptome analysis of immune cell subsets in peripheral blood mononuclear cells (PBMCs) revealed mitochondria contribution in B cells to systemic lupus erythematosus.

Yusuke Takeshima (The University of Tokyo)

#### **Category-17. Tumor immunity**

3-D-W32-11-O/P

Basic leucine zipper transcription factor ATF-like 2 exhibits an anti-tumor effect through upregulation of IL-12 p40 expression

Hisashi Kanemaru (Osaka University)

3-D-W33-1-O/P

The role of soluble CD155 in tumor immune response and metastasis

Okumura Genki (University of Tsukuba)

#### **Category-18. Cancer immunotherapy**

1-F-W11-11-O/P

Low-dose HMGN1 synergistically enhances anti-tumor immunity in CD4 depleting antibody-treated mice

Chang-Yu Chen (The University of Tokyo)

1-F-W12-10-O/P

Dying but not dead cancer cells exert the effect of cell-based cancer vaccine

Yoshino Tanaka (Hokkaido University)

#### **Category-19. Human Immunology (Immunointervention)**

1-I-W17-1-O/P

Identification of the disease causal variants in human primary biliary cholangitis (PBC) susceptibility gene loci *NFKB1/MANBA*


Yuki Hitomi (The University of Tokyo)



## **2016: The 45th Annual Meeting of The JSI**

Dates: December 5-7

Venue: Okinawa Convention Center / Laguna Garden Hotel



JSI gives an award to the superior presenters in the workshop and poster session of the JSI Annual Meeting. Two awardees are selected in each category by workshop coordinators and chairpersons. This award is supported by BioLegend, Tomy Digital Biology and Sanofi.

#### **Category-1: Hematopoiesis and Immune Environment**

3-E-W30-2-O/P

Local function of the IL-15 niche in thymus

Guangwei Cui (Kyoto University)

3-E-W30-10-O/P

An organ-wide transcriptome of collagen-producing cells identifies the core signature of steady-state murine fibroblasts

Shigeyuki Shichino (The University of Tokyo, AMED)

### **Category-2: B cells**

2-B-W16-10-O/P

Dynamics of IRF4-dependent gene activation and repression during plasma cell differentiation

Kyoko Ochiai (Tohoku University School of Medicine, AMED-CREST)

2-B-W16-14-O/P

LRRK1 controls B-cell responses by regulating CARMA1-dependent NF- $\kappa$ B activation

Keiko Morimoto (Osaka University)

### **Category-3: T cells**

1-G-W13-3-O/P

Timing and duration of MHC-I positive selection signals in the thymus reveal a novel compensatory signaling mechanism that prevents lineage fate errors

Motoko Kimura (Chiba University)

1-G-W14-11-O/P

Membrane lipid binding by SH2 domains of Lck and Zap70 regulates T cell receptor activation

You-Me Kim (Pohang University of Science and Technology)

### **Category-4: Helper T cells**

3-G-W34-3-O/P

Gai-coupled non-canonical Hedgehog signaling in human Naive CD4 T lymphocytes.

Olga Elisseeva (Okinawa Institute of Science and Technology Graduate University)

3-G-W34-5-O/P

The microRNA-183/96/182 cluster promotes T helper 17 cell pathogenicity by negatively regulating transcription factor Foxo1 expression

Kenji Ichiyama (Osaka University, Children's National Medical Center)

### **Category-5: Regulatory T cells**

3-G-W35-5-O/P

Soluble form of CTLA-4 produced by regulatory T cells facilitates M2 macrophage differentiation in auto-inflammatory condition.

Motonaosaki (Kyoto University, Osaka University)

3-G-W35-8-O/P

Immunological significance of dual secretion of TGF- $\beta$ 3 and IL-10 from regulatory T cells

Toshihiko Komai (The University of Tokyo)

### **Category-6: Innate lymphocytes**

1-C-W5-3-O/P

Identification of an alternative developmental pathway of Va14+ NKT cells from double-negative thymocytes

Nyambayar Dashtsoodol (RIKEN-IMS, Mongolian National University)

1-C-W6-7-O/P

IFN regulatory factor 2 controls ILC development by promoting PLZF+ILC progenitor generation.

Yohei Okubo (Shinshu University)

### **Category-7: Dendritic cells and macrophages**

1-B-W3-1-O/P

Single-cell RNA-seq reveals a novel dendritic cell-primed early progenitor population

Daisuke Kurotaki (Yokohama City University)

1-B-W4-4-O/P

MafB is the primary regulator of complement component C1q

Michito Hamada (University of Tsukuba)

### **Category-10: Mast cells & granulocytes**

2-E-W19-4-O/P

A critical role of ceramide-CD300f interaction in septic peritonitis  
Kumi Izawa (Juntendo University)

2-E-W19-16-P

Basophil-selective tryptase mMCP-11 plays crucial roles in the development of IgE-mediated chronic allergic inflammation in the skin.

Misako Iki (Tokyo Medical and Dental University)

### **Category-11: Allergy**

3-D-W28-5-O/P

The role of Tfh cells and DCs in particulate-induced iBALT formation in the lungs

Etsushi Kuroda (Osaka University, Health and Nutrition)

3-D-W29-6-O/P

Clec10a suppresses Der f-induced immune response and dermatitis

Kazumasa Kanemaru (University of Tsukuba)

### **Category-12: Cytokines and chemokines**

2-G-W21-1-O/P

Regulation of IL-4 production in Group2 innate lymphoid cells

Yasutaka Motomura (RIKEN-IMS)

2-G-W21-5-O/P

HBV-induced exosomal miRNAs down-regulate the expression of IL-21 mRNA by binding to its 3'UTR

Yutaka Enomoto (The University of Tokyo)

### **Category-13: Immunological memory**

3-F-W33-2-O/P

Specific niches for lung-resident memory CD8+ T cells at the site of tissue regeneration enable CD69-independent maintenance

Shiki Takamura (Kindai University)

3-F-W33-4-O/P

Molecular mechanisms for prevention of IgE-memory formation by membrane IgE

Kei Haniuda (Tokyo University of Science)

### **Category-14: Virus infection**

1-E-W9-3-O/P

Visualizing immune responses to influenza virus in mouse lung by using two-photon microscopy

Hiroshi Ueki (The University of Tokyo)

1-E-W10-1-O/P

Modulation of the antiviral adaptor IPS-1-mediated innate immune responses by carboxylation

Tomohiko Okazaki (The University of Tokyo)

### **Category-15: Mycofungal/ parasite infection**

3-C-W26-7-O/P

Effect of Secreted Immunoglobulin Deficiency in Anti-Leishmania Immunity

Piyarat Srinontong (Gifu University)

3-C-W26-19-O/P

Strategy of Zygomycete fungi to evade anti-fungal innate immunity

Masashi Kanayama (Duke University)

### **Category-16: Bacterial infection**

3-C-W27-5-O/P

Microbially cleaved immunoglobulins are sensed by the innate immune receptor LILRA2

Kouyuki Hirayasu (Osaka University)

3-C-W27-6-O/P

Recognition of mycobacterial lipid by Dendritic cell immunoactivating receptor

Kenji Toyonaga (Kagoshima University)

### **Category-17: Endogeneous innate immunity and inflammation**

3-B-W24-17-O/P

Involvement of RNAi accessory factors in MDA5/LGP2-mediated cellular responses by Cardiovirus infection  
Akihiko Komuro (Niigata University)

3-B-W24-20-O/P

Immune regulation through TRIM-regulated precision autophagy and secretion.  
Tomonori Kimura (Osaka University)

### **Category-18: Mucosal-Skin Immunity**

1-A-W1-15-O/P

Commensal bacteria-derived metabolite induce colonic IgA producing cells  
Junya Isobe (Keio University)

1-A-W2-8-O/P

Immunization with GM-CSF-induced RALDH2-expressing dendritic cells induce antigen-specific IgA and Th responses in intestine  
Naoki Takemura (Chiba University, The University of Tokyo)

### **Category-19: Tolerance and Immune suppression**

2-D-W18-6-O/P

Non-overlapping roles of PD-1 and FoxP3 in maintaining immune tolerance in a novel autoimmune pancreatitis mouse model  
Baihao Zhang (Kyoto University, RIKEN-IMS)

2-D-W18-12-O/P

Hepatic IL-10 producing CD11b<sup>+</sup> macrophage recruited in colitic mice prevent T-cell-dependent hepatitis via gut-liver axis  
Nobuhito Taniki (Keio University)

### **Category-20: Organ-specific autoimmune diseases**

3-F-W32-2-O/P

The anti-apoptotic effect of matrix metalloproteinase-2 suppresses streptozotocin-induced diabetes by activating the Akt signaling pathway  
Kota Nishihama (Mie University)

3-F-W32-4-O/P

Regulation of neuroinflammation by a cellular metabolite in experimental autoimmune encephalomyelitis  
Daisuke Kamimura (Hokkaido University)

### **Category-21: Inflammatory arthritis**

2-C-W17-2-O/P

Dual Effect of 3-Bromopyruvate on Both Th17 and Treg Cell Differentiation and Dendritic Cell Activation Ameliorates Autoimmune Arthritis in Mice  
Takaichi Okano (Kobe University)

2-C-W17-6-O/P

Histone lysine methylation and STAT3 differentially regulate constitutive and IL-6-induced MMPs gene activation in rheumatoid arthritis synovial fibroblasts  
Yasuto Araki (Saitama Medical University)

### **Category-22: Systemic autoimmune diseases**

1-F-W11-5-O/P

IL-21 enhances the development of autoimmune myositis via the production of GM-CSF from gd T cells  
Takahiro Kageyama (Chiba University)

1-F-W12-1-O/P

Cell-type-specific transcriptome analysis of peripheral blood mononuclear cells (PBMCs) revealed B cell contribution to systemic lupus erythematosus pathogenesis  
Yusuke Takeshima (The University of Tokyo)

### **Category-23: Tumor immunity**

2-A-W15-12-O/P

IL-33 promotes obesity-associated liver cancer development

Fumitaka Kamachi (Tokyo University of Science)

3-A-W22-5-O/P

A novel pathogenic role of interleukin-34 in cancer chemoresistance

Muhammad Baghdadi (Hokkaido University)

#### **Category-24: Human Immunology (Immunointervention)**

1-D-W7-11-O/P

Gene Modules Correlated with Disease Activity and Abatacept Treatment Identified with Weighted Gene Co-Expression Network Analysis of CD4+ T Cell Subsets of Rheumatoid Arthritis

Shuji Sumitomo (The University of Tokyo)

1-D-W8-2-O/P

Development of molecular targeted therapy for human acute GVHD in humanized mice

Genki Okumura (University of Tsukuba)

#### **Category-25: Antigen presentation, Trafficking**

3-E-W31-6-O/P

HLA-F and MHC open conformer cooperate in antigen presentation during the inflammatory response

Akiko Ishitani (Nara Medical University)

#### **3-E-W31-8-O/P**

Implications of Spns2-deficiency on S1P-driven lymphocytes egress, HEV-integrity and immunity.


Szandor Simmons (Osaka University)



## **2015: The 44th Annual Meeting of The JSI**

Dates: November 18-20

Venue: Sapporo Convention Center



JSI gives an award to the superior presenters in the workshop and poster session of the JSI Annual Meeting. Two awardees are selected in an each category by workshop coordinators and chairpersons.

(exception: ONLY Category-9 is One awardee.)

This award is supported by BioLegend, Tomy Digital Biology and Sanofi.

#### **Category-1: Hematopoiesis and Immune Environment**

2-I-W32-7-O/P

Bach2 represses myeloid programs to promote lymphoid progenitor development under both the steady state and infection Ari Itoh-Nakadai (Tohoku University)

2-I-W32-10-O/P

Identification of cMoP and bona fide GMP in human umbilical cord blood

Shunsuke Kawamura (Tokyo Medical and Dental University)

#### **Category-2: B cells**

3-F-W42-2-O/P

Intrathymic licensing of immigrating peripheral B cells for T cell tolerance induction

Tomoyoshi Yamano (Ludwig-Maximilians-Universitat)

3-F-W42-3-O/P

Antigen-specific maturation of anti-nuclear antibodies in systemic lupus erythematosus

Shuhei Sakakibara (Osaka University)

#### **Category-3: T cells**

2-H-W30-1-O/P

A tumor suppressor Menin controls CD8 T cell senescence by regulating energy metabolism

Junpei Suzuki (Ehime University)

3-H-W46-3-O/P

Statistical analysis shows non-randomness of V/J gene selection in human TCR

Yotaro Katayama (The University of Tokyo)

#### **Category-4: Helper T cells**

1-H-W13-4-O/P

Obesity drives Th17 cell differentiation by inducing the lipid metabolic kinase, ACC1

Yusuke Endo (Chiba University)

1-H-W14-11-O/P

Human CXCL13-producing CD4 T cells preferentially differentiate under IL-2-limited environment

Hiroyuki Yoshitomi (Kyoto University)

#### **Category-5: Regulatory T cells**

3-G-W43-2-O/P

Establishment of regulatory T cell-specific super-enhancers

Yohko Kitagawa (Osaka University)

3-G-W43-6-O/P

Foxp3 changes its partners and genomic binding regions in regulatory T cells in response to IL-4 stimulation

Norihito Hayatsu (RIKEN-IMS)

#### **Category-6: Innate lymphocytes**

1-C-W4-7-O/P Involvement of Natural Helper cells, a member of group 2 ILCs (ILC2) in the induction of obesity

Takaharu Sasaki (RIKEN-IMS)

1-C-W4-2-O/P

Identification of progenitor cells specific to ILC1s and ILC3s in adult intestine

Takashi Ebihara (Washington University)

#### **Category-7: Dendritic cells and macrophages**

2-C-W20-1-O/P

Transcription factor IRF8 governs the enhancer landscape dynamics in mononuclear phagocyte development

Daisuke Kurotaki (Yokohama City University)

3-C-W36-2-O/P

Unique role of Cbfb2 variant in Langerhans cell development

Mari Tenno (RIKEN-IMS)

#### **Category-8: Antigen presentation**

1-D-W5-2-O/P

p62/Sqstm1 plays a specific role for CD8+ T cell activation in antigen presenting cells following IFN- $\gamma$ -induced disruption of the Toxoplasma gondii parasitophorous vacuoles

Youngae Lee (Osaka University)

1-D-W5-13-O/P

Discovery of lipopeptide Ag-presenting molecules: its molecular identity and X-ray crystallographic structure

Daisuke Morita (Kyoto University)

#### **Category-9: Trafficking**

2-I-W31-5-O/P

Spinster-homologue-2 (Spns2) controls S1P-driven lymphocyte egress from lymphoid organs

Szandor Simmons (Osaka University)

#### **Category-10: Mast cells & granulocytes**

1-C-W3-3-O/P

The histidine transporter SLC15A4 regulates allergic responses by tuning the endo/lysosomal condition of mast cells

Toshihiko Kobayashi (National Center for Global Health & Medicine)

1-C-W3-4-O/P

The novel role of LMIR7/CLM-3 in mast cell- and IgE-dependent anaphylaxis

Masamichi Isobe (Juntendo University)

#### **Category-11: Allergy**

3-I-W47-4-O/P

Murine allergic rhinitis and nasal Th2 activation are mediated via TSLP- and IL-33-signaling pathways  
Shoko Akasaki (Hyogo College of Medicine)

3-I-W48-4-O/P

CXCL4 is a novel nickel binding protein and augments nickel allergy at elicitation phase  
Toshinobu Kuroishi (Tohoku University)

### **Category-12: Cytokines and chemokines**

1-I-W15-4-O/P

Inflammation amplifier regulatory molecule NSZ1 controls NFκB specific chromatin accessibility via alternative splicing of a DNA methyltransferase  
Toru Atsumi (Hokkaido University)

1-I-W16-8-O/P

Involvement of a novel alpha9 integrin ligand, XCL1/Lymphotactin in autoimmune diseases  
Naoki Matsumoto (Hokkaido University)

### **Category-13: Immunological memory**

1-G-W11-3-O/P

Distinct germinal center selection at local sites shapes memory B cell response to viral escape  
Yu Adachi (National Institute of Infectious Diseases)

1-G-W11-5-O/P

A role of IL-9 receptor on B cells in the T-dependent immune responses  
Shogo Takatsuka (Tokyo University of Science)

### **Category-14: Virus infection**

1-F-W9-2-O/P

The role of mTOR in TLR3 responses to Herpes Simplex Virus infection  
Ryota Sato (The University of Tokyo)

1-F-W10-6-O/P

CD150 costimulation enhances SHIV-specific TFH cell responses in non-human primate models  
Takuya Yamamoto (National Institutes of Biomedical Innovation, Health and Nutrition)

### **Category-15: Mycofungal/ parasite infection**

1-E-W7-14-O/P

Batf2 regulates Th17 responses by suppression of IL-23 production during Trypanosoma cruzi infection  
Shoko Kitada (Osaka University)

1-E-W7-18-O/P

Malaria-induced bone disorder triggered by chronic inflammation in the bone  
Michelle Sue Jann Lee (Osaka University)

### **Category-16: Bacterial infection**

3-G-W44-6-O/P

Analysis of a novel subset of IFN-γ-producing DN2a γδ T cells in the periphery of mice  
Shinya Hatano (Kyushu University)

3-G-W44-4-O/P

CD300a on mast cells and dendritic cells control the pathogenesis of experimental sepsis  
Gamage Sanath Udayanga Kankanam (University of Tsukuba)

### **Category-17: Endogeneous innate immunity and inflammation**

1-G-W12-1-O/P

MD-1 negatively regulates B cell-related inflammation  
Natsuko Tanimura (The University of Tokyo)

2-G-W27-3-O/P

A Novel Function of Human Pumilio Proteins in Cytoplasmic Sensing of Viral Infection  
Ryo Narita (Kyoto University)



### **Category-18: Mucosal-Skin Immunity**

3-E-W40-1-O/P

The role of the gut microbiota in the development of experimental autoimmune encephalomyelitis  
Eiji Miyauchi (RIKEN-IMS)

1-E-W8-1-O/P

Lypd8 maintains gut homeostasis through separation of flagellated bacteria and colonic epithelia  
Ryu Okumura (Osaka University)

### **Category-19: Tolerance and Immune suppression**

2-C-W19-3-O/P

Establishment of thymus transplant model to analyze peripheral T cell tolerance against pemphigus autoantigen, desmoglein 3  
Hisato Iriki (Keio University)

2-C-W19-4-O/P

The strength of inhibition by LAG-3 depends on properties of APCs  
Takumi Maruhashi (Tokushima University)

### **Category-20: Organ-specific autoimmune diseases**

2-F-W25-1-O/P

RANKL on T cells is essential for inflammation in the CNS during EAE  
Matteo Maurizio Guerrini (The University of Tokyo)

2-F-W26-6-O/P

Activated increased number of T follicular helper subset 2 correlates with increased levels of IgG4, IL-4 and plasmablasts in IgG4-related disease  
Mitsuhiro Akiyama (Keio University)

### **Category-21: Inflammatory arthritis**

2-B-W17-1-O/P

Rheumatoid arthritis patients-derived gut microbiota induce Th17-mediated arthritis in SKG mice  
Yuichi Maeda (Osaka University)

2-B-W17-2-O/P

TIARP regulates CXCL2/CXCR2 mediated neutrophil migration via the inhibition of IL-6  
Asuka Inoue (University of Tsukuba)

### **Category-22: Systemic autoimmune diseases**

1-B-W1-5-O/P

Regulatory roles of TGF- $\beta$ 3 in lupus pathogenesis  
Toshihiko Komai (The University of Tokyo)

1-B-W2-1-O/P

Myeloperoxidase/HLA class II complexes are targets for autoantibodies in ANCA-associated vasculitis  
Ryosuke Hiwa (Kyoto University)

### **Category-23: Tumor immunity**

2-D-W21-8-O/P

Metformin administration stimulates glycolysis of effector memory CD8TIL in tumor microenvironment Shingo Eikawa (Okayama University)

3-D-W38-5-O/P

Tumor cell death accelerated migration of tumor infiltrating dendritic cells into draining lymph nodes  
Taiki Moriya (Osaka Ohtani University)

### **Category-24: Human Immunology (Immunointervention)**

2-B-W18-3-O/P

The ulcerative colitis-associated gene RNF186 regulates gut homeostasis  
Kosuke Fujimoto (Osaka University)

3-B-W34-5-O/P


Development of a human hemato-lymphoid system in human cytokine knock-in Rag2-/-Il2rg-/- mice engrafted with peripheral blood mobilized CD34+ cells  
Yasuyuki Saito (Kobe University / University Hospital Zurich)



## **2014: The 43rd Annual Meeting of The JSI**

Dates: December 10-12

Venue: Kyoto International Conference Center



JSI gives an award to the superior presenters in the workshop and poster session of the JSI Annual Meeting. One awardee is selected in each category by workshop coordinators and chairpersons. This award is supported by BioLegend, Tomy Digital Biology and The Society for Mucosal Immunology (SMI).

### **Category-1: Hematopoiesis and Immune Environment**

2-H-W32-5-0/P : YANAGIHARA Toyoshi (Kyushu University)

Identification of a novel molecule essential for Aire expression and self-tolerance

### **Category-2: B cells**

2-G-W29-8-0/P : YAMAZAKI Nao (National Center for Global health and Medicine)

IgM+ plasma cells contribute to the sufficient production of IgG by secreting IL-10 and IL-13

### **Category-3: T cells**

2-D-W23-6-0/P : KAMIMURA Daisuke (Hokkaido University)

Characterization of T-Red mutant mouse line having reduced naive T cells

### **Category-4: Helper T cells**

3-E-W44-5-0/P

Cytokine requirement for Th17 cell differentiation in response to Segmented filamentous bacteria colonization  
SANO Teruyuki (New York University)

### **Category-5: Regulatory T cells**

3-D-W42-16-0/P

Foxp3 and BATF cooperatively controls regulatory T cell homeostasis in non-lymphoid tissues  
MURAKAMI Ryuichi (RIKEN)

### **Category-6: Innate lymphocytes**

1-B-W2-8-0/P : MIYAJIMA Michio (RIKEN)

Type III innate lymphoid cells enhance antibody production by splenic marginal zone B cells

### **Category-7: Dendritic cells and macrophages**

2-C-W22-1-0/P : NIIZUMA Kouta (University of Tsukuba)

Identification and characterization of human CD300H, the eighth member of the CD300-family receptors

### **Category-8: Antigen presentation**

2-E-W26-9-0/P : KISHIDA Kazuki (Osaka University)

Processing of cellular misfolded protein complexed with MHC class II molecules

### **Category-9: Trafficking**

1-F-W9-13-0/P : HARADA Yosuke (Kyushu University)

The role of DOCK8 in migration and activation of effector CD4+ T cells during immune responses

### **Category-10: Mast cells & Granulocytes**

2-J-W36-7-0/P : ANDO Tomoaki (RIKEN)

Mast cells and the Stat5 activation pathway are required for allergen-induced and spontaneous skin inflammation

### **Category-11: Allergy**

1-J-W18-3-O/P : TSAI Shin han (Osaka University)

E-NPP3 (CD203c) negatively regulates ATP-dependent allergic responses by basophils and mast cells

### **Category-12: Cytokines and chemokines**

3-G-W47-17-O/P : OGURA Hideki (Hokkaido University)

ZFZ (zinc finger motif containing protein Z) promotes the inflammation amplifier by regulating NF- $\kappa$ B DNA binding activity

### **Category-13: Immunological memory**

1-G-W11-1-O/P : KONDO Taisuke (Keio University)

Generation of mouse CD4<sup>+</sup> stem cell memory T cells by Wnt signaling and by Notch signaling

### **Category-14: Virus infection**

2-I-W34-2-O/P : SUGIMOTO Naoshi (Kyoto University)

Helicase proteins DHX29 and RIG-I cosense cytosolic nucleic acids in the human airway system

### **Category-15: Mycofungal / parasite infection**

3-I-W52-4-O/P : UENO Keigo (National Institute of Infectious Diseases)

Efficacy of dendritic cell-mediated immunization for the pulmonary infection with highly virulent fungus *Cryptococcus gattii*

### **Category-16: Bacterial infection**

3-I-W51-9-O/P : TSUCHIYA Kohsuke (Kyoto University)

NLRP3 and ASC contribute to host defense against pneumococcal pneumonia in an inflammasome-independent manner

### **Category-17: Endogeneous innate immunity and inflammation**

2-E-W25-6-O/P : IMAMURA Tomoko (Kyoto University)

N4bp1-mediated nascent RNA decay controls cytokine mRNA expression

### **Category-18: Mucosal-Skin Immunity**

3-H-W49-5-O/P : GOTO Yoshiyuki (Columbia University)

Segmented filamentous bacteria antigens presented by intestinal dendritic cells drive mucosal Th17 cell differentiation

### **Category-19: Tolerance and Immune suppression**

1-H-W13-3-O/P : LIN Youwei (NCNP)

Inverse vaccination for autoimmune diseases by sensitization of superior dominant peptide through efficient induction of functionally stable regulatory T cells possessing high antigen-specificity

### **Category-20: Organ-specific autoimmune diseases**

1-F-W10-2-O/P : ASASHIMA Hiromitsu (University of Tsukuba)

The suppressive ability of altered peptide ligands to M3R reactive T cells in M3R induced autoimmune sialadenitis

### **Category-21: Rheumatoid arthritis**

2-F-W28-1-O/P : KONDO Yuya (University of Tsukuba)

ROR $\gamma$ t<sup>+</sup>Foxp3<sup>+</sup> regulatory T cells regulates the development of autoimmune arthritis in mice

### **Category-22: Systemic autoimmune diseases**

3-F-W45-7-O/P : MORITA Kaoru (The University of Tokyo)

The role of Egr2 and Egr3 in regulating immune homeostasis

### **Category-23: Tumor immunity**

2-B-W19-8-O/P : MAEDA Takuya (Kyoto University)

Regeneration of EB virus LMP2 specific CTLs utilizing iPS technology

**Category-24: Human Immunology (immunointervention)**

3-C-W40-7-O/P : NAKACHI Shinichiro (The University of Tokyo)

A quantitative alteration of human CD4+CD25-LAG3+Tregs in patients with rheumatoid arthritis