

The 6th Awaji International Forum on Infection and Immunity

	Sep 3, Sun	Sep 4, Mon	Sep 5, Tue	Sep 6, Wed	Sep 7, Thu
9:00		Training course 3	Parasitology Chair: Horii	Bacteriology Chair: Svanborg	Oral poster 4 Parasitology Chair: Sekimizu
9:30		Sasakawa	1. Marti 2. Yoshida 3. Zavala	1. Dehio 2. Miyake 3. Buchrieser	Break (15min)
10:00		Break (15min)			
10:30		Training course 4			
11:00		Takeda			
11:30		Break (15min)	Lunch	1. Matano 2. Ahmed 3. Kiyono	Closing Remarks Shioda
12:00		Training course 5			
12:30		Horii	1. Johnson 2. Kikutani 3. Kronenberg 4. Takatsu	1. Lanier 2. Akira 3. Garcia-Sastre	
13:00		Lunch			
13:30		Opening Remarks Kiyono	1. Hammerschmidt 2. Yamaguchi 3. Svanborg	1. Yasutomo 2. Grab 3. Sekimizu	
14:00		Bacteriology Chair: Sasakawa			
14:30		1. Hammerschmidt 2. Yamaguchi 3. Svanborg	Break (15min)	Break (15min)	Break (15min)
15:00					
15:30		Break (15min)	1. Nagata 2. Bavari 3. Yamamoto	Oral poster 2 Bacteriology Chair: Suzuki	1. Sugamura 2. Beutler 3. Inaba
16:00		Training course 1			
16:30		Miyasaka	1. Shastri 2. Czerkinsky	Oral poster 3 Virology Chair: Horimoto	
17:00		Break (15min)			
17:30		Training course 2	Break (15min)	Break (15min)	
18:00		Kida			
18:30		Break (15min)	Oral poster 1 Immunity Chair: Takaki		
19:00	Young Investigator Evening Session				
19:30		Welcome reception		Event (BBQ)	
20:00					

The 6th Awaji Forum
Scientific program

September 3, Sunday

16:00 - 17:00 **Training course 1**

Masayuki Miyasaka, Osaka, Japan
"Leukocyte trafficking and its mechanism"

17:00 - 17:15 **Break**

17:15 - 18:15 **Training course 2**

Hiroshi Kida, Sapporo, Japan
"Are we prepared for emerging influenza in birds and humans as a zoonosis?"

18:15 - 18:30 **Break**

18:30 - 19:30 **Young Investigator Evening Session**

September 4, Monday

9:00 - 10:00 **Training course 3**

Chihiro Sasakawa, Tokyo, Japan
"Shigella infection of epithelial cells as a model of host-parasite interaction"

10:00 - 10:15 **Break**

10:15 - 11:15 **Training course 4**

Kiyoshi Takeda, Fukuoka, Japan
"Regulation of innate immune responses"

11:15 - 11:30 **Break**

11:30 - 12:30 **Training course 5**

Toshihiro Horii, Osaka, Japan
"Molecular strategy for parasites survival against host immunity"

12:30 - 13:30 **Lunch**

13:30 - 14:00 **Opening Remarks: Hiroshi Kiyono**, Tokyo, Japan

14:00 - 16:00 **Symposium I**

Bacterial Infections 1 (Discussion leader: **C. Sasakawa**, Tokyo, Japan)

Sven Hammerschmidt, Wuerzburg, Germany

"The move into host cells – role of pneumococcal adhesins"

Akihito Yamaguchi, Osaka, Japan

" Bacterial multidrug exporters - From the molecular structure to the biological function - "

Catharina Svanborg, Lund, Sweden

"BACTERIAL FIMBRIAE, TLR4 SIGNALLING AND INNATE IMMUNE RESPONSES"

16:00 - 16:15 **Break**

16:15 - 18:15 **Symposium II**

Viral Infections 1 (Discussion leader: **T. Matano**, Tokyo, Japan)

Kyosuke Nagata, Tsukuba, Japan

"VIRAL GENOME REPLICATION AND HOST FACTORS"

Sina Bavari, USA

" "

Naoki Yamamoto, Tokyo, Japan

"Identification and characterization of a novel host factor that regulates the microtubule-dependent transport of HIV-1 Gag"

18:15 - 19:15 **Oral Poster 1**

Host Defense and Immunity (Discussion Leader, **S. Takaki**, Tokyo, Japan)

Masaji Okada, Osaka, Japan

"NOVEL VACCINATION (HVJ-LIPOSOME / HSP65 DNA+ IL-12 DNA) AGAINST TUBERCULOSIS USING CYNOMOLGUS MONKEY."

Masashi Gohda, Tokyo, Japan

"Sphingosine 1-phosphate regulates peritoneal B cell trafficking for the subsequent intestinal IgA production"

Satoshi Uematsu, Osaka, Japan

"Detection of pathogenic intestinal bacteria by Toll-likereceptor 5 on intestinal CD11c+ lamina propria cells"

Hiroko Tsutsui, Hyogo, Japan

"Contribution of interleukin-18 to atopic dermatitis-like skin inflammation induced by Staphylococcus aureus product in mice"

19:15 - **Welcome Reception**

September 5, Tuesday

9:00 - 11:00 **Symposium III**
Parasitic Infections 1 (Discussion Leader: **T. Horii**, Osaka, Japan)

Matthias Marti, Australia

"Export of malaria virulence proteins to host red blood cells"

Hiroki Yoshida Saga, Japan

"Double-sided roles of IL-27 in parasite infection; the initiator and the attenuator of immune reaction."

Fidel P. Zavala, Baltimore, USA

"THE INDUCTION AND EFFECTOR PHASES OF CD8+ T CELL RESPONSES AGAINST MALARIA LIVER STAGES OCCUR IN DIFFERENT TISSUE COMPARTMENTS."

11:00 - 13:00 **Lunch and Poster session 1 (Discussion for odd-numbered posters)**

13:00 - 15:40 **Symposium IV**
Host Defense and Immunity 1 (Discussion leader: **N. Shastri**, Berkeley, USA)

Randall S. Johnson, San Diego, USA

"HIF-1 α expression regulates the bactericidal capacity of phagocytes"

Hitoshi Kikutani, Osaka, Japan

"The GPI-anchored semaphorin, Sema7A plays a critical role in T cell-mediated inflammation as a cellular ligand for α 1 β 1 integrin/VLA1"

Mitchell Kronenberg, San Diego, USA

"NKT cells sense bacterial infection and recognize bacterial glycolipids"

Kiyoshi Takatsu, Tokyo, Japan

"Immunobiology of Ag85B and Peptide-25 of *Mycobacterium tuberculosis*"

15:40 - 15:55 **Break**

15:55 - 17:15 **Symposium V**
Vaccine 1 (Discussion leader: **R. Ahmed**, Atlanta, USA)

Nilabh Shastri, Berkeley, USA

"Molecular mechanisms for customizing peptides presented by MHC class I molecules"

Cecil Czerkinsky, Nice, France

"Cellular and Molecular Basis of Immune Responsiveness to Mucosal Vaccines"

17:15 - 17:30 **Break**

17:30 - 18:30 **Oral Poster 2**

Bacterial Infections (Discussion Leader, **T. Suzuki**, Okinawa, Japan)

Kengo Kitadokoro, Kyoto, Japan

"Structural analysis for the catalytic domain of *Pasteurella multocida* toxin"

Takahiro Murata, Kanagawa, Japan

"The *Legionella pneumophila* effector protein DrrA is a Rab1 nucleotide exchange factor"

Takanori Ikeda, Osaka, Japan

"Influence of Lactic Acid Bacteria in Longevity of *Caenorhabditis elegans* and Host Defense to *Salmonella enterica* Serovar Enteritidis"

Shinji Fukuda, Yokohama, Japan

"Analysis of host-indigenous bacterial cross-talk via gene expression profiling of murine intestinal epithelium"

18:30 - 19:30 **Oral Poster 3**

Viral Infections (Discussion Leader, **T. Horimoto**, Tokyo, Japan)

Emi Nakayama, Osaka, Japan

"Polymorphisms in CCR5 chemokine receptor gene in Japan"

Shinji Ohno, Fukuoka, Japan

"Analysis of measles virus infection using human SLAM knock-in mice."

Makoto Ozawa, Tokyo, Japan

"Contributions of Two Nuclear Localization Signals of Influenza A Virus Nucleoprotein to Viral Replication"

Takashi Irie, Hiroshima, Japan

"Interaction of multiple viral proteins with AIP1 facilitates Sendai virus budding"

September 6, Wednesday

9:00 - 11:00 **Symposium VI**

Bacterial Infections 2 (Discussion leader: **C. Svanborg**, Lund, Sweden)

Christoph Dehio, Basel, Switzerland

"Subversion of endothelial cell functions by the VirB/VirD4 type IV secretion system of *Bartonella henselae*"

Kensuke Miyake, Tokyo, Japan

"Roles for Accessory Molecules in Lipopolysaccharide Recognition by Toll-like Receptor 4"

Carmen Buchrieser, Paris, France

"*Legionella pneumophila* pathogenesis: insights gained from comparative genomics and transcriptomics"

11:00 - 13:00 **Lunch and Poster session 2 (Discussion for even-numbered posters)**

13:00 - 15:00 **Symposium VII**

Viral Infections 2 (Discussion leader: **K. Nagata**, Tsukuba, Japan)

Lewis L. Lanier, San Francisco, USA

"NK cells and receptors in anti-viral immunity."

Shizuo Akira, Osaka, Japan

"Mechanism of Viral Recognition and Type 1 Interferon Production"

Adolfo García-Sastre, New York, USA

"Inhibition of the type I IFN response by RNA viruses"

15:00 – 15:15 **Break**

15:15 - 17:15 **Symposium VIII**

Parasitic Infections 2 (Discussion leader: **F. P. Zavala**, Baltimore, USA)

Koji Yasutomo, Tokushima, Japan

"Control of Parasites Infections by Notch signaling"

Dennis J. Grab, Baltimore, USA

"African trypanosome interactions with the human blood-brain barrier: What have we learned?"

Kazuhisa Sekimizu, Tokyo, Japan

"Genetic studies of physiologic functions and roles for malaria infection of Duffy antigen and glycoporphin A"

17:15 - 17:30 **Break**

17:30 - 19:30 **Symposium IX**

Host Defense and Immunity 2 (Discussion leader: **K. Miyake**, Tokyo, Japan)

Kazuo Sugamura, Sendai, Japan

"Regulation of APC Function by ESCRT Proteins, STAM1 and STAM 2"

Bruce Beutler, USA

"Identification of proteins required for survival during MCMV infection"

Kayo Inaba, Kyoto, Japan

"C-type lectins expressed on dendritic cell subsets"

19:30 - **Event (BBQ)**

September 7, Thursday

9:00 - 10:00 **Oral Poster 4**

Parasitic Infections (Discussion Leader, **K. Sekimizu**, Tokyo, Japan)

Takafumi Tsuboi, Matsuyama, Japan

"Wheat germ cell-free translation system: An application for the genome-wide screening of novel malaria vaccine candidates"

Hye-Sook Kim, Okayama, Japan

"Antimalarial Function Analysis of New Antimalarial Endoperoxides"

Kazuyuki Tanabe, Osaka, Japan

"Evolution of *msp1* polymorphism after speciation of *Plasmodium vivax* and *Plasmodium cynomolgi*"

Daniel K. Inaoka, Tokyo, Japan

"Structural insight into catalytic mechanism of dihydroorotate oxidation and fumarate reduction of *Trypanosoma cruzi* dihydroorotate dehydrogenase (TcDHOD)"

10:00 - 10:15 **Break**

10:15 - 12:15 **Symposium X**

Vaccine 2 (Discussion leader: **J. Kunisawa**, Tokyo, Japan)

Tetsuro Matano, Tokyo, Japan

"Long-term CTL-based control of simian immunodeficiency virus replication in vaccinated rhesus macaques"

Rafi Ahmed, Atlanta, USA

"Restoring function in exhausted CD8 T cells during chronic viral infection"

Hiroshi Kiyono, Tokyo, Japan

"Uniqueness of Lymphoid Chemokine Mediated NALT Formation and its Application for the Development of Mucosal Vaccine"

12:15 - **Closing Remarks: Tatsuo Shioda, Osaka, Japan**

Bacterial Infections

P-001

M. Oda, H. Ago, M. Takahashi, H. Tsuge, N. Katsunuma, M. Miyano, J. Sakurai

The Structure and function of neutral sphingomyelinase from *Bacillus cereus*

P-002

Y. Handa, C. Sasakawa

Bacterial Effector Hijacks the RhoG-ELMO-Dock180 Machinery to Invade Epithelial Cells

P-003

H. Mimuro, C. Sasakawa

Helicobacter pylori CagA inhibits self-renewal of gut epithelium by accelerating MCL1 expression

P-004

H. Ohnishi, Y. Horiguchi

The morphological changes in rat type 2 alveolar cells caused by Bordetella pertussis adenylate cyclase toxin.

P-005

G. Sano, S. Goto, K. Maruyama, K. Oka, H. Ishikawa, H. Matsui, K. Matsuo

Salmonella induce macrophage oncosis and escape from host cells

P-006

A. Uehara, H. Takada

Antibodies to proteinase 3 prime human monocytic cells via protease-activated receptor-2, phospholipase C, and NF- κ B for CD14-, Toll-like Receptor 2-, 3-, 4-, 7-, 8-, NOD1-, and 2-dependent activation

P-007

H. Tomita, Y. Ike

Genetic analysis of the vancomycin resistance *Enterococcus* conjugative plasmid pHT β : identification of aggregation-related region and a positive regulator gene for plasmid transfer and aggregation

P-008

S. Kamitani, K. Kitadokoro, M. Miyazawa, M. Miyake, A. Fukui, Y. Horiguchi

The entire crystal structure of Pasteurella multocida Toxin

P-009

K. Kitadokoro, S. Kamitani, M. Miyazawa, A. Fukui, M. Miyake, Y. Horiguchi

Structural analysis for the catalytic domain of Pasteurella multocida toxin

P-010

T. Suzuki, Y. Yoshikawa, H. Ashida, H. Iwai, T. Toyotome, H. Matsui, C. Sasakawa

High vaccine efficacy against shigellosis of recombinant non-invasive Shigella mutant that expresses Yersinia invasin

P-011

Y. Matsumoto, C. Kaito, K. Kurokawa, K. Sekimizu

RNA binding activity of the virulence regulator CvfB in Staphylococcus aureus.

P-012

T. Murata, A. Delprato, A. Ingmundson, D. Toomre, D. Lambright, Y. Mamada, K. Nasuno, T. Suzuki, K. Kohda, A. Ishiguro, C. Roy

The Legionella pneumophilla effector protein DrrA is a Rab1 nucleotide exchange factor

P-013

H. Chibana, H. Nakayama, K. Sasamoto, K. Ueno, T. Aoyama, K. Tsuritani, J. Uno, K. Nakai, Y. Mikami

Construction of research matrix in systematic gene analyses for pathogenic fungi

P-014

Y. Gotoh, O. Igarashi, K. Terahara, T. Nochi, T. Obata, T. Hiroi, S. Akira, H. Kiyono

Commensal Bacteria induce UEA-1 positive cells in small intestinal villous epithelia via a TLR2 and TLR4 independent pathway.

P-015

A. Hidaka, T. Hokyo, J. Ogasawara, A. Hase, Y. Nishikawa

Multiplex Real-Time PCR for Detection and Quantification of Enterotoxigenic *Escherichia coli* in Foods

P-016

T. Ikeda, K. Hoshino, C. Yasui, Y. Nishikawa

Influence of Lactic Acid Bacteria in Longevity of *Caenorhabditis elegans* and Host Defense to *Salmonella enterica* Serovar Enteritidis

P-017

K. Arikawa, I. Meraz, J. Ogasawara, A. Hase, Y. Nishikawa

Association of IL-8-Inducing Strains of Diffusely Adherent *Escherichia coli* with Sporadic Diarrheal Patients Less Than 5 Years of Age

P-018

H. Toshima, A. Yoshimura, J. Ogasawara, A. Hase, H. Masaki, Y. Nishikawa

Enhancement of Shiga-toxin Production in Enterohaemorrhagic *Escherichia coli* Serotype O157:H7 by DNase Colicins

P-019

J. Yagasaki, S. Kojima, T. Iida, M. Homma

Isolation of the Type III Secretion Machineries of *Vibrio parahaemolyticus*

P-020

S. Fukuda, G. Nakatoh, K. Itoh, H. Ohno

Analysis of host-indigenous bacterial cross-talk via gene expression profiling of murine intestinal epithelium

P-021

K. Kawano, K. Hase, T. Murakami, H. Ohno

Identification of a newly endocytic receptor expressed in the apical membrane of M cells

P-022

A. Uozumi, T. Nochi, M. Yoda, M. Mejima, A. Matsumura, T. Taketomi, Y. Yuki, H. Shibata, O. Igarashi, H. Kiyono

Biological role of primate peptidoglycan recognition protein-S (PGRP-S) in the mucosal innate immune system.

Parasitic Infections

P-023

Y. Miyazaki, Y. Shimanoe, S. Wang, Y. Iwakura, H. Yoshida

Interleukin-17 play roles in successful resolution of *Trypanosoma cruzi* infection

P-024

Y. Shinozaki, S. Wang, H. Yoshida

Augmentation of in vivo anti-tumor activity by WSX-1 (IL-27Ra)-deficient dendritic cells with higher antigen-presenting functions

P-025

S. Wang, Y. Miyazaki, Y. Simanoe, Y. Sinozaki, H. Yoshida

IL-27/WSX-1 is a negative regulator of LPS-induced macrophage activation.

P-026

K. Yui, D. Kimura, M. Miyakoda, K. Honma, Y. Chinzei, M. Yuda

Non-specific induction of CD4 T-cell anergy during malaria infection

P-027

K. Kato, D. Mayer, M. Reid, L. Miller

Domain III of *Plasmodium falciparum* apical membrane antigen 1 binds to the erythrocyte membrane protein Kx

P-028

T. Tsuboi, S. Takeo, L. Jin, E. Han, H. Iriko, O. Kaneko, T. Sawasaki, M. Torii, Y. Endo

Wheat germ cell-free translation system: An application for the genome-wide screening of novel malaria vaccine candidates

P-029

Y. Hong, K. Nagamune, Y. Morita, F. Nakatani, H. Ashida, Y. Maeda, T. Kinoshita

Removal or maintenance of inositol-linked acyl chain in glycosylphosphatidylinositol is critical in trypanosome life cycle

P-030

H. Kim, Y. Wataya, N. Aly, A. Masuyama, M. Nojima, S. Kawai, A. Hiramoto, K. Hiramoto, O. Hiraoka, H. Kataoka

Antimalarial Function Analysis of New Antimalarial Endoperoxides

P-031

M. Asakawa

Coservation medicine and host-parasite relationships between wildlife and parasitic helminths in Japan (Review)

P-032

K. Tanabe, A. Escalante, S. Pathirana, S. Handunnetti, M. Honda, H. Kishino

Evolution of *msp1* polymorphism after speciation of *Plasmodium vivax* and *Plasmodium cynomolgi*

P-033

J. Shimada, T. Hatabu

Trypanosoma cruzi exploits cellular FLIP for inhibition of death receptor-mediated host-cell apoptosis

P-034

H. Hisaeda, K. Himeno

Malaria parasites activate regulatory T cell by dendritic cells in a TLR9-dependent manner

P-035

N. Arisue, M. Jia, T. Horii

Phylogeny and evolution of SERA family genes in *Plasmodium* species

P-036

H. Iriko, L. Jin, O. Kaneko, E. Han, M. Tachibana, H. Otsuki, S. Takeo, M. Torii, T. Tsuboi

Alternative splicing is not rare in *Plasmodium falciparum*

P-037

M. Takamoto, D. Jin, S. Hida, K. Sugane

STAT6 signaling is essential to CD8⁺ T-cell activation which is important in defense to *Toxoplasma gondii* infection.

P-038

N. Palacpac, B. Leung, N. Arisue, K. Tanabe, J. Sattabongkot, T. Tsuboi, M. Torii, R. Udomsangpetch, T. Horii

The *Plasmodium vivax* serine repeat antigen (SERA) multigene family: expression pattern and genetic diversity in independent infections

P-039

P. Butthep, S. Wanram, K. Pattanapanyasat, P. Vattanaviboon, S. Fucharoen, P. Wilairat

Cytoadherence Between Endothelial Cells and *P. falciparum* Infected and Noninfected Normal and Thalassemic Red Blood Cells

P-040

V. Ali, T. Nozaki

Cysteine biosynthesis pathway in *Entamoeba histolytica* is a rational target to develop new chemotherapeutics against amebiasis

P-041

D. Inaoka, H. Shimizu, K. Sakamoto, T. Shiba, G. Kurisu, T. Nara, T. Aoki, S. Harada, K. Kita

Structural insight into catalytic mechanism of dihydroorotate oxidation and fumarate reduction of *Trypanosoma cruzi* dihydroorotate dehydrogenase (TcDHOD)

Viral Infections

P-042

E. Nakayama, H. Liu, I. Theodorou, Y. Nagai, S. Likanonsakul, C. Wasi, P. Debre, A. Iwamoto, T. Shioda

Polymorphisms in CCR5 chemokine receptor gene in Japan

P-043

A. Kato, M. Yamamoto, T. Ohno, Y. Kawaguchi

Herpes Simplex Virus 1-Encoded Protein Kinase UL13 Phosphorylates Viral Us3 protein Kinase and Regulates nuclear Localization of Viral Envelopment Factors UL34 and UL31

P-044

R. Asai, K. Sugimoto, T. Sairenji, Y. Nishiyama, Y. Kawaguchi

Epstein-Barr Virus Protein Kinase BGLF4 Is a Virion Tegument Protein That Dissociates From Virions in a Phosphorylation Dependent Process and Phosphorylates the Viral Immediate-Early Protein BZLF1

P-045

S. Ohno, N. Ono, F. Seki, M. Takeda, Y. Yanagi

Analysis of measles virus infection using human SLAM knock-in mice.

P-046

H. Fujisawa

Neutrophils and Antibody Response cooperatively Play an Important Role in Protection against and in Recovery from Pulmonary Infection with Influenza Virus in Mice

P-047

H. Sato, R. Honma, T. Seki, M. Yoneda, R. Miura, F. Ikeda, K. Kohara-Tsukiyama, S. Watanabe, C. Kai

Measles virus induces cell-type specific changes in gene expression

P-048

Y. Nakatsu, M. Takeda, S. Ohno, R. Koga, Y. Yanagi

Measles virus C protein suppresses interferon induction and modulates host antiviral responses

P-049

M. Ozawa, K. Fujii, Y. Muramoto, S. Yamada, S. Yamayoshi, A. Takada, H. Goto, T. Horimoto, Y. Kawaoka

Contributions of Two Nuclear Localization Signals of Influenza A Virus Nucleoprotein to Viral Replication

P-050

S. Yamayoshi, T. Noda, Y. Kawaoka

Proline at position 53 of Ebola virus VP40 are important for VLP production

P-051

T. Irie, Y. Shimazu, T. Sakaguchi, T. Yoshida

Interaction of multiple viral proteins with AIP1 facilitates Sendai virus budding

P-052

S. Khalil, S. Sharawi

Molecular detection and typing of infectious bursal disease virus

Host Defense and Immunity

P-053

Y. Shimanoe, S. Wang, Y. Miyazaki, H. Yoshida

The role of IL-27/WSX-1(IL-27R) in experimental allergic rhinitis

P-054

M. Okada, Y. Kita, N. Kanamaru, S. Hashimoto, R. Fukamizu, Y. Nishida, Y. Namie, Y. Tsunai, R. Inoue, H. Nakatani, J. Yamada, K. Takao

NOVEL VACCINATION (HVJ-LIPOSOME / HSP65 DNA+ IL-12 DNA) AGAINST TUBERCULOSIS USING CYNOMOLGUS MONKEY.

P-055

S. Hashimoto, M. Okada, Y. Takemoto, Y. Okuno, Y. Kita, N. Kanamaru, R. Fukamizu, Y. Nishida, Y. Namie, Y. Tsunai, R. Inoue, H. Nakatani, J. Yamada, K. Takao, J. Peiris

Development of three distinct vaccines against SARS corona virus infection using SCID-PBL/hu mouse models.

P-056

M. Gohda, J. Kunisawa, Y. Kurashima, M. Higuchi, I. Ishikawa, I. Ogahara, H. Kiyono

Sphingosine 1-phosphate regulates peritoneal B cell trafficking for the subsequent intestinal IgA production

P-057

Y. Kurashima, J. Kunisawa, M. Higuchi, M. Gohda, M. Yamanaka, K. Takeda, S. Akira, H. Kiyono

Requirement of gut microflora-derived stimulation via TLRs for the retention of large intestinal intraepithelial CD8 α T cells

P-058

H. Suzuki, K. Sakai, T. Akaike, S. Koyasu, M. Shirai

Phosphoinositide 3-kinase in nitric oxide synthesis in macrophage: critical dimerization of inducible nitric oxide synthase

P-059

T. Nagatake, S. Fukuyama, D. Kim, K. Takamura, A. Kawamura, H. Kiyono

Distinct subsets of lymphoid tissue inducer cells: ROR γ t independent CD3-CD4^{low}CD45⁺ cells are responsible for the NALT-genesis

P-060

M. Higuchi, J. Kunisawa, Y. Kurashima, M. Gohda, F. Miura, I. Ogahara, I. Ishikawa, H. Kiyono

IFN- γ distinctly regulates microbial induced innate and acquired phase of antigen presentation by epithelial cells

P-061

T. Ogawa, M. Tanabe, T. Suzuki

The induction of cytotoxic T lymphocytes having the dual antigenic specificities, such as major histocompatibility antigen complex (MHCs) and X-chromosome linked gene products (XLGPs).

P-062

T. Tanabe, I. Ishige, Y. Aita, Y. Suzuki, Y. Fujimoto, K. Fukase, N. Inohara, G. Nunez, Y. Eishi

Sarcoidosis and Nod1 variation with impaired recognition of intracellular *Propionibacterium acnes*.

P-063

K. Tobiume, K. Tsuruda, N. Ohta, H. Iijima, M. Koh, T. Hiroi, H. Kiyono, I. Takahashi

Ameliorative roles of MICA for IL-15-supported pathogenic T cells fates in T cell receptor α chain-deficient mice with inflammatory bowel disease.

P-064

K. Suzuki, P. Rennert, R. Pasterkamp, A. Kolodkin, A. Kumanogoh, H. Kikutani

A role of Sema7A in T cell-mediated immunity as a cellular ligand for $\alpha 1 \beta 1$ integrin

P-065

K. Terahara, O. Igarashi, Y. Gotoh, T. Nochi, Y. Yuki, T. Hiroi, H. Kiyono

Intestinal environmental alteration contributes to the induction of villous M cells

P-066

Y. Umeda, Y. Akema, M. Kuraoka, K. Yamada, M. Hashiguchi, W. Ise, T. Kouro, Y. Takahashi, M. Totsuka, K. Takatsu, S. Kaminogawa, R. Sato, S. Hachimura

CD3-IL-2R⁺ Peyer's patch cells respond to TLR stimuli and produce IL-5.

P-067

J. Wang, I. Shiratori, T. Sato, H. Arase

O-linked glycosylation on the ligand is essential for recognition by PILR

P-068

C. Moriya, A. Takeda, T. Matano

A single amino acid change in CTL epitope flanking region can abort efficacy of vaccine-induced CTL responses against simian immunodeficiency virus infection

P-069

T. Nochi, A. Uozumi, M. Yoda, A. Matsumura, M. Mejima, U. Nakanishi, Y. Yuki, H. Shibata, O. Igarashi, H. Kiyono

Characterization of the morphological structure and lectin reactivity of non-human primate M-cell

P-070

S. Uematsu, M. Jang, Z. Guo, M. Yamamoto, H. Kato, N. Sougawa, H. Kuawata, H. Hemmi, C. Coban, T. Kawai, K. Ishii, O. Takeuchi, M. Miyasaka, K. Takeda, S. Akira

Detection of pathogenic intestinal bacteria by Toll-like receptor 5 on intestinal CD11c+ lamina propria cells

P-071

H. Tsutsui, M. Terada, K. Nakanishi

Contribution of interleukin-18 to atopic dermatitis-like skin inflammation induced by Staphylococcus aureus product in mice

P-072

M. Mizui, H. Arase, T. Yasui, A. Kumanogoh, H. Kikutani

An inhibitory role of Tim-4 in naive T-cell activation

P-073

C. Coban, K. Ishii, S. Uematsu, N. Arisue, S. Sato, M. Yamamoto, T. Kawai, O. Takeuchi, H. Hisaeda, T. Horii, S. Akira

PATHOLOGICAL ROLES OF TLR SIGNALING IN CEREBRAL MALARIA

P-074

H. Shih, H. Chen, J. Chuang

Sensitization of Toll-like receptor 4 in different murine models of liver cirrhosis

P-075

E. James, A. Yeh, D. Golgher, T. Elliott

Characterisation of Cross-Protective Anti-Tumour Responses