

The 8th Awaji International Forum on Infection and Immunity

	Sep 7, Sun	Sep 8, Mon	Sep 9, Tue	Sep 10, Wed	Sep 11, Thu
9:00		9:00	9:00	9:00	9:00
9:30		Training course III Virology	Molecular Understanding of Bacterial Infection and Innate Immunity	Molecular Pathogenesis of HIV	Oral presentation for selected posters on Infection and Immunity
10:00		Break			
10:30		10:15	Break	Break	
11:00		Training course IV Bacteriology	10:45	10:45	Break
11:30		11:15	Mucosal Infection and Immunity	HIV Immunity and Vaccine	Oral presentation for selected posters on Virology and Bacteriology
12:00		Young Investigaors' Luncheon Session		11:45	
12:30			11:40	11:45	Special Lecture Erling Norrby
13:00			Lunch Break (own)	12:30	Closing
13:30		Opening		Lunch Break (own)	
14:00		13:30	13:30	13:30	
14:30		Novel Approaches for Molecular Understanding of Virus	Poster (odd #)	Poster (even #)	
15:00		Break	15:00	15:00	
15:30	15:30	15:15	Molecular Mimicking for Active and Quiescent Immunity	Viral and Bacterial Infection and Immunity	
16:00	Registration	Host and Parasite Interaction for Infection and Escape			
16:30	16:30		Break	Break	
17:00	Training course I Parasitology	Break	16:45	16:45	
17:30	Break	17:00	Viral Infection and Immune Memory	Innate and Acquired Immunity for Parasite Infection	
18:00	17:45	Pathogenesis and Commensalism of Bacteria			
18:30	Training course II Immunology			Break	
19:00	Break	Break			
19:30	19:00	19:00	Dinner(own)	19:00	
20:00	Dinner	Welcome Reception		BBQ	
20:30					
21:00					

The 8th Awaji International Forum on Infection and Immunity

Scientific Program

September 7, Sunday

- 16:30 - 17:30 **Training Course 1 (Parasitology)**
Kiyoshi Kita, The University of Tokyo, Japan
- 17:30 - 17:45 Break
- 17:45 - 18:45 **Training Course 2 (Immunology)**
Tsuneyasu Kaisho, RIKEN Research Center for Allergy and Immunology,
Japan
- 18:45 - 19:00 Break
- 19:00 - 20:30 Dinner

September 8, Monday

- 9:00 - 10:00 **Training Course 3 (Virology)**
Yasuko Mori, Kobe University, Japan
- 10:00 - 10:15 Break
- 10:15 - 11:15 **Training Course 4 (Bacteriology)**
Akio Abe, Kitasato University, Japan
- 11:15 - 11:30 Break
- 11:30 - 13:00 **Young investigators' luncheon-session**

13:20-13:30 **Opening remarks: Kensuke Miyake, The University of Tokyo, Japan**

13:30-15:00 **S-I: Novel Approaches for Molecular Understanding of Virus**

(Discussion Leader, Hideo Iba, The University of Tokyo, Japan)

1. Michael Katze, University of Washington, USA
“Can Systems Biology and A Computer Save The World From Killer Viruses: The Answer Is Yes But It Better Happen Soon”
2. W. Ian Lipkin, College of Physicians & Surgeons, Columbia University, USA
“Methods and Models for Pathogen Discovery”
3. Yasushi Kawaguchi, The University of Tokyo, Japan
“Replication and pathogenesis of herpes simplex virus”

15:00-15:15 Coffee break

15:15-16:45 **S-II: Host and Parasite Interaction for Infection and Escape**

(Discussion Leader, Toshihiro Horii, Osaka University, Japan)

1. Agam Singh, New York University Medical Center, USA
“Host manipulation by Plasmodium liver stages. New avenues for treatment”
2. Kisaburo Nagamune, University of Tsukuba, Japan
“Abscisic acid controls calcium-dependent egress and development in Toxoplasma gondii”
3. Hajime Hisaeda, Kyushu University, Japan
“Immune escape by malaria parasite exploiting regulatory T cells”

16:45-17:00 Coffee break

17:00-18:30 **S-III: Pathogenesis and Commensalism of Bacteria**

(Discussion Leader, Chihiro Sasakawa, The University of Tokyo, Japan)

1. Stephanie Abromaitis, University of California, USA
“Attachment and Entry of Chlamydia have Distinct Requirements for Host Protein Disulfide Isomerase”
2. Steffen Backert, Otto von Guericke University Magdeburg, Germany
“Role of type IV secretion in Helicobacter pylori pathogenesis”
3. Masahira Hattori, The University of Tokyo, Japan
“Metagenomics of the human gut microbiome”

19:00-20:00 **Welcome reception**

September 9th (Tue)

9:00-10:30 S-IV: Molecular Understanding of Bacterial Infection and Innate Immunity

(Discussion Leader, Yasuhiko Horiguchi, Osaka University, Japan)

1. Scott Hultgren, Washington University School of Medicine, USA
“Urinary Tract Infections: from adhesive structures to bacterial virulence mechanisms, host response and new targets for treatment”
2. Shoichiro Kurata, Tohoku University, Japan
“Autophagic control of Listeria through intracellular innate immune recognition in Drosophila”
3. Jie-Oh Lee, Korea Advanced Institute of Science and Technology, Korea
“Ligand Recognition by the TLR Complexes”

10:30-10:45 Coffee break

10:45-12:15 S-V: Mucosal Infection and Immunity

(Discussion Leader, Shigeo Koyasu, Keio University School of Medicine, Japan)

1. Shizuo Akira, Osaka University, Japan
“Innate immune response in intestine”
2. Makoto Takeda, Kyushu University Medical School, Japan
“Measles virus infection of polarized epithelial cells”
3. Hiroshi Kiyono, The University of Tokyo, Japan
“Mucosal Decision for Immunity and Tolerance”

12:15-13:30 Lunch

13:30-15:00 **Poster session**

15:00-16:30 S-VI: Molecular Mimicking for Active and Quiescent Immunity

(Discussion Leader, Hitoshi Kikutani, Osaka University, Japan)

1. Takashi Saitoh, RIKEN Research center for allergy and immunology, Japan
“C-type lectin Mincle is an ITAM-coupled activating receptor sensing damaged cells”
2. Anjana Rao, Harvard Medical School, USA
“Regulation of the Balance between Th17 and iTreg Development by Small Molecules and Transcription Factors”
3. Kazuo Sugamura, Tohoku University, Japan
“Negative regulation of IL-6 signaling: c-Cbl-dependent monoubiquitination and lysosomal degradation of gp130”

16:30-16:45 Coffee break

16:45-18:15 **S-VII: Viral Infection and Immune Memory**

(Discussion Leader, Hisashi Arase, Osaka University, Japan)

1. Stephan Becker, Institute of Virology, Philipps-University Marburg, Germany
“Assembly and Release of Marburg Virus”
2. Takaji Wakita, National Institute of Infectious Diseases, Japan
“HCV replication and virus particle formation”
3. Rafi Ahmed, Emory University, USA
“Immune Memory and Vaccination”

September 10th (Wed)

9:00-10:30 **S-VIII: Molecular Pathogenesis of HIV**

(Discussion Leader, Naoki Yamamoto, National Institute of Infectious Diseases, Japan)

1. Hiroaki Takeuchi, The University of Tokyo, Japan
“Different contribution of cyclophilin A to SIV replication in human and monkey cells”
2. Akira Ono, University of Michigan Medical School, USA
“HIV-1 Assembly at the Plasma Membrane”
3. Leonidas Stamatatos, Seattle Biomedical Research Institute, USA
“Epitope-specificities of cross-reactive NAb in HIV+ human plasma”

10:30-10:45 Coffee break

10:45-11:45 **S-IX: HIV Immunity and Vaccine**

(Discussion Leader, Tetsuro Matano, The University of Tokyo, Japan)

1. Nancy L. Haigwood, Oregon National Primate Research Center, USA
“Continuous Viral Escape and Selection by Autologous Neutralizing Antibodies in Drug-Naïve HIV Controllers”
2. Richard A. Koup, Vaccine Research Center, NIAID, NIH, USA
“Impact of different T cell functions in the control of HIV and opportunistic pathogens”

11:45-12:30 **Special Lecture**

supported by The Japan Academy

(chaired by: Kumao Toyoshima, RIKEN, Japan)

Erling Norrby, The Royal Swedish Academy of Sciences, Sweden

“Nobel Prizes and the emerging virus concept”

12:30-13:30 Lunch

13:30-15:00 **Poster session**

15:00-16:30 **S-X: Viral and Bacterial Infection and Immunity**

(Discussion Leader, Hiroshi Kiyono, The University of Tokyo, Japan)

1. Christine Biron, Brown University, USA
“Molecular Mechanisms Shaping Biological Responses of NK and T Cells during Viral Infections - Changing STAT Concentrations for Regulation of Type 1 Interferon Effects”
2. Mitchell Kronenberg, La Jolla Institute for Allergy & Immunology, San Diego, USA
“NKT Cells Sense Diverse Microbial Infections and Recognize Bacterial Glycolipids”
3. Mitsutoshi Yoneyama, Institute for Virus Research, Kyoto University, Kyoto, Japan
“Non-self RNA sensing mechanism of RIG-I-like RNA helicases”

16:30-16:45 Coffee break

16:45-18:15 **S-XI: Innate and Acquired Immunity for Parasite Infection**

(Discussion Leader, Kenji Nakanishi, Hyogo College of Medicine, Japan)

1. Hajime Karasuyama, Tokyo Medical and Dental University Graduate School
“The role for basophils in the protection against external parasites”
2. Kayo Inaba, Kyoto Univ., Japan
“Subsets of macrophages and dendritic cells defined by newly established monoclonal antibody against SIGNR3”
3. David Artis, University of Pennsylvania, Philadelphia, USA
“Innate immunity to intestinal parasite infection”

19:00-21:00 BBQ

September 11th (Thu)

9:00-10:45 Oral Poster 1

(Discussion Leader, Hitomi Mimuro, The University of Tokyo, Japan)

1. Yumiko Imai, Akita University School of Medicine, Japan
"Identification of oxidative stress and Toll like receptor 4 - TRIF signaling as a key pathway of cytokine storm in H5N1 avian influenza virus infection"
2. Satoshi Ishido, RIKEN Research Center for Allergy and Immunology, Japan
"Dendritic cell maintenance by MARCH-I through MHC II ubiquitination"
3. Yoshinori Hiraoka, Kyoto University, Japan
"A metalloendopeptidase nardilysin is an essential regulator for inflammatory response"
4. Hiroji Chibana, Chiba University, Japan
"Target prioritization and lead generation for development of antifungal drug based on Candida glabrata phenome project"
5. Kanna Nagamatsu, Kitasato University, Japan
"Bordetella stealth strategy: Escape from the host immune system by exploitation of type III effectors"
6. Hideaki Higashi, Hokkaido University, Japan
"Structural analysis of the Helicobacter pylori CagA protein"
7. Asuka Takeishi, the University of Tokyo, Japan
"Analysis of Caspase activation in Drosophila during host defense"

10:45-11:00 Coffee break

11:00-12:45 Oral Poster 2

(Discussion Leader, Yasushi Kawaguchi, the University of Tokyo, Japan)

1. Yoshifumi Nishikawa, Obihiro University of Agriculture and Veterinary Medicine, Japan
"Enhancement of host cell apoptosis by a secreted molecule from Toxoplasma gondii, Programmed Cell Death 5"
2. Hironori Bando, Obihiro University of Agriculture and Veterinary Medicine, Japan
"Impact of midgut bacteria on Plasmodium development in mosquito"
3. Osamu Takeuchi, Osaka University, Japan
"The length-dependent recognition of double-stranded RNAs by RIG-I and MDA5"
4. Satoshi Koike, Tokyo Metropolitan Institute for Neuroscience, Japan
"Interferon induction in response to poliovirus infection in the poliovirus receptor transgenic mice"
5. Kenta Shimizu, the University of Tokyo, Japan
"The NP and M segments of H5N1 influenza viruses are responsible for dominance in embryonated eggs"

6. Jing Wang, Osaka University, Japan

“Crucial role of O-glycosylation on glycoprotein B in herpes simplex virus I infection”

7. Taisuke Izumi, Kyoto University, Japan

“HIV-1 Vif Causes G2 Cell Cycle Arrest via the p53 Pathway”

12:45-13:00 **Closing Remarks: Hitoshi Kikutani, Osaka University, Japan**

P-001

Comparison of anti-viral activity of rhesus monkey and cynomolgus monkey TRIM5 α s against human immunodeficiency virus type 2 infection

Ken Kono, Haihan Song, Yasuhiro Shingai, Tatsuo Shioda, Emi Nakayama

P-002

Identification of novel small molecule HCV entry inhibitor that acts through CD81

Yutaka Takebe

P-003

The length-dependent recognition of double-stranded RNAs by RIG-I and MDA5

Osamu Takeuchi, Hiroki Kato, Takashi Fujita, Shizuo Akira

P-004

Anti-viral factor JDP2 regulates differentiation and proliferation of adipocytes and replicative senescence

Kazunari Yokoyama, Jianzhi Pan, Nakade Koji, Murata Takehide

P-005

TRAF6 and MEKK1 Play Pivotal Roles in the RIG-like Helicase/IPS-1 Antiviral Pathway.

Ryoko Yoshida, Akihiko Yoshimura, Takashi Kobayashi

P-006

The NP and M segments of H5N1 influenza viruses are responsible for dominance in embryonated eggs

Kenta Shimizu, Chengjun Li, Yukiko Muramoto, Shinya Yamada, Hualan Chen, Yoshihiro Kawaoka

P-007

HIV-1 adapts and evolves to grow efficiently in simian cells

Masako Nomaguchi, Naoya Doi, Akio Adachi

P-008

Identification of the genes involved in mouse retrovirus-induced leukemia/lymphoma by high-throughput retroviral tagging

Takeshi Suzuki, Akihiko Ishimura, Minoru Terashima

P-009

Human herpesvirus-6 infection induces the reorganization of membrane microdomains in target cells, which are required for virus entry

Huamin Tang, Akiko Kawabata, Hiroko Oyaizu, Masaya Takemoto, Koichi Yamanishi, Yasuko Mori

P-010

HIV-1 Vif Causes G2 Cell Cycle Arrest via the p53 Pathway

Taisuke Izumi, Akifumi Takaori-Kondo, Shirakawa Kotaro, Matsui Masashi, Ito Katsuhiro, Uchiyama Takashi

P-011

Follicular dendritic cells activate HIV-1 replication through a juxtacrine mechanism mediated by P-selectin glycoprotein ligand-1

Kenji Ohba, Akihide Ryo, Kazuo Terashima, Naoki Yamamoto

P-012

Conformational Changes Mediated by Receptor Binding and Proteolysis of a Coronaviral Envelope Glycoprotein

Shutoku Matsuyama, Fumihiro Taguchi

P-013

Degradation of phosphorylated p53 occurs through viral protein-ECS E3 ligase complex during Epstein-Barr virus lytic replication

Tatsuya Tsurumi, Yoshitaka Sato

P-014

A direct inhibitor of viral RNA replication encoded by a plant resistance gene

Masayuki Ishikawa, Kazuhiro Ishibashi

P-015

Analyses of herpes simplex virus type 1 variants associated with herpes gladiatorum and Kaposi's varicelliform eruption in sumo wrestlers suggest reactivation of latent HSV-1 infections by sumo practice

Kazuo Yanagi, Fumihiko Ban, Shigeru Ozawa, Satoe Asano

P-016

Interaction between the P3 proteins and the 5'-terminal structural elements of the genome of Aichi virus

Jun Sasaki, Shigeo Nagashima, Koki Taniguchi

P-017

Microarray analysis of transcriptional responses to infection by herpes simplex virus types 1 and 2 and their US3-deficient mutants in HEp-2 cells and human normal keratinocytes.

Maki Kamakura, Yukihiro Nishiyama

P-018

Interaction of Borna disease virus X with Hsc70 modulates viral polymerase activity in the nucleus

Yohei Hayashi, Takuji Daito, Masayuki Horie, Tomoyuki Honda, Kazuyosi Ikuta, Keizo Tomonaga

P-019

Glial dysfunction in the cerebellum of transgenic mice expressing Borna disease virus phosphoprotein

Tomoyuki Honda, Naohiro Ohtaki, Yohei Hayashi, Takuji Daito, Masayuki Horie, Kazuyoshi Ikuta, Keizo Tomonaga

P-020

Paramyxovirus Sendai virus C proteins are essential for maintenance of negative-sense RNA genome in virus particles

Takashi Irie, Natsuko Nagata, Takemasa Sakaguchi

P-021

Intramembrane processing by SPP regulates membrane localization of HCV core protein and viral propagation

Yoshiharu Matsuura, Yoshio Mori, Okamoto Kiyoko, Moriishi Kohji

P-022

Detection of ligand-independent higher-order oligomerization state of a G-protein-coupled receptor CXCR4 by BiFC/BRET

Makiko Hamatake, Yuko Futahashi, Toru Aoki, Naoki Yamamoto, Jun Komano

P-023

Generation of Recombinant Rotavirus with an Antigenic Mosaic of Cross-Reactive Neutralization Epitopes on VP4

Satoshi Komoto, Masanori Kugita, Akiko Yui, Jun Sasaki, Koki Taniguchi

P-024

Interaction of HIV-1 integrase with Gemin2 stimulates reverse transcription in vivo and in vitro

Takao Masuda, Hironori Nishitsuji

P-025

Type 1 interferon induction after measles virus infection

Satoshi Ikegame, Makoto Takeda, Shinji Ohno, Yuichiro Nakatsu, Yusuke Yanagi

P-026

Different efficiency of C-type lectin-mediated virus entry between Marburg virus strains

Keita Matsuno, Noriko Kishida, Katsuaki Usami, Masayuki Shimojima, Ute Stroehler, Heinz Feldmann, Tatsuro Irimura, Yoshihiro Kawaoka, Ayato Takada

P-027

Human metapneumovirus grows efficiently in Vero cells expressing transmembrane serine protease TMPRSS2

Yuta Shirogane, Makoto Takeda, Masaharu Iwasaki, Nobuhisa Ishiguro, Hiroki Takeuchi, Yuichiro Nakatsu, Maino Tahara, Hideaki Kikuta, Yusuke Yanagi

P-028

Contributions of small hydrophobic and hemagglutinin-neuraminidase protein genes of the mumps virus Urabe AM9 strains to growth in human neuroblastoma SH-SY5Y cells

Kaoru Takeuchi, Nao Fujieda, Katsuhiko Komase, Tetsuo Nakayama, Kyosuke Nagata

P-029

AUP1 regulates HIV particle production

Yuko Morikawa, Shoko Saegusa

P-030

Comparative and mutational analysis of promoter regions of rinderpest virus

Kentaro Fujita, Chieko Imai, Misako Yoneda, Chieko Kai

P-031

SIV-specific functional T-cell induction after passive neutralizing antibody immunization postinfection

Takuya Yamamoto, Nami Iwamoto, Hiroyuki Yamamoto, Tetsuo Tsukamoto, Tetsuya Kuwano, Akiko Takeda,

Miki Kawada, Yasuko Tsunetsugu-Yokota, Tetsuro Matano

P-032

Solution structures of RIG-I like receptor C-terminal domains

Kiyohiro Takahashi, Mitsutoshi Yoneyama, Natsuko Tsuzuki, Hiroyuki Kumeta, Ryo Narita, Reiko Hirai, Takashi

Fujita, Fuyuhiko Inagaki

P-033

Substitution of the myristoylation signal of HIV-1 Pr55Gag with PLC delta 1 pleckstrin homology domain results in fully infectious pseudovirion production

Toru Aoki, Saki Shimizu, Emiko Urano, Makiko Hamatake, Kazuo Terashima, Hirokazu Tamamura,

Tsutomu Murakami, Yuko Morikawa, Naoki Yamamoto, Jun Komano

P-034

Development of protein tags with defined structures for expression and solubilization of HIV proteins

Naoyuki Kondo, Akio Ebihara, Heng Ru, Seiki Kuramitsu, Aikichi Iwamoto, Zene Matsuda

P-035

P-TEFb complex-interacting domain of Brd4 inhibits HIV-1 replication through restricting Tat-mediated enhancement of LTR promoter activity

Emiko Urano, Yumi Kariya, Makiko Hamatake, Hidesuke Fukazawa, Yuko Morikawa, Yoshio Koyanagi, Naoki

Yamamoto, Jun Komano

P-036

CHARACTERIZATION OF THE EBOLA VIRUS NUCLEOPROTEIN-RNA COMPLEX

Takeshi Noda, Hagiwara Kyoji, Sagara Hiroshi, Kawaoka Yoshihiro

P-037

Comparison of pathogenicity of H5N1 influenza viruses in macaques

Yukiko Muramoto, Yasushi Itoh, Daisuke Tamura, Yuko Sakai-Tagawa, Hirotaka Imai, Kiyoko Okamoto, Hirohito

Ishigaki, Kyoko Shinya, Le Thi Quynh Mai, Kazumasa Ogasawara, Yoshihiro Kawaoka

P-038

Characterization of pathogenesis and productive infection of HIV-1 in humanized mice

Kei Sato, Chuanyi Nie, Naoko Misawa, Yuetsu Tanaka, Mamoru Ito, Yoshio Koyanagi

P-039

Protein kinase A-mediated phosphorylation regulates the interaction between APOBEC3G and HIV-1 Vif.

Kotaro Shirakawa, Akifumi Takaori, Masaru Yokoyama, Taisuke Izumi, Masashi Matsui, Katsuhiro Io, Hironori Sato, Takashi Uchiyama

P-040

HIV-1 Nef dysregulates the innate immune function of macrophages

Kazutaka Terahara, Fuminori Mizukoshi, Takuya Yamamoto, Yu-Ya Mitsuki, Takatsugu Tsuchiya, Kazuo Kobayashi, Yasuko Tsunetsugu-Yokota

P-041

Intracellular trafficking machinery of human immunodeficiency virus Gag-Pol protein

Hiyori Haraguchi, Yuko Morikawa

P-042

Neutrophils play an essential role in cooperation with antibody in both protection against and recovery from pulmonary infection with influenza virus in mice

Haruo Fujisawa

P-043

Persistent infection of Hepatitis C virus to get over the acquired immunity system

Michinori Kohara, Satoshi Sekiguchi, Yoshimi Tobita

P-044

PLATELET PHAGOCYTOSIS BY MACROPHAGES IN DENGUE Increased Phagocytosis of Platelets from Patients with Secondary Dengue Virus Infection by Human Macrophages

Shoko Honda, Kazunori Oishi, Mariko Saito

P-045

Brm, a catalytic subunit of the SWI/SNF complex is required for Tat-independent stable expression of HIV-1.

Taketoshi Mizutani, Aya Ishizaka, Hideo Iba

P-046

Live-cell imaging of influenza viral RNP trafficking

Fumitaka Momose, Tetsuya Sekimoto, Yuko Morikawa

P-047

Hrs regulates Lysosome-dependent Degradation of Human Immunodeficiency Virus Type 1 Gag Protein

Shoko Sato, Mariko Sato, Noriko Isono, Naoko Ogama, Chie Sasaki, Kazuo Sugamura, Nobuyuki Tanaka

P-048

Anti-hepatitis C virus activity of cyclin-dependent kinase inhibitors

Tsubasa Munakata, Makoto Inada, Akio Nomoto

P-049

Inhibitory effect of heparin on infection of SLAM-negative cells with measles virus

Yuri Terao, Misako Yoneda, Akira Watanabe, Kentaro Fujita, Chieko Kai

P-050

Interferon induction in response to poliovirus infection in the poliovirus receptor transgenic mice

Satoshi Koike, Yuko Abe

P-051

Significance of DHCR24 in life cycle of Hepatitis C virus

Tomohiro Nishimura, Masaaki Sato, Yuri Kasama, Masahiro Shuda, Shinichiro Nakagawa, Makoto Saito, Michinori Kohara, Kyoko Tsukiyama-Kohara

P-052

Crucial role of O-glycosylation on glycoprotein B in herpes simplex virus I infection

Jing Wang, Takeshi Satoh, Jun Arai, Yasushi Kawaguchi, Hisashi Arase

P-053

Molecular mechanism of type I Interferon production from plasmacytoid dendritic cell

Tsuneyasu Kaisho, Takahiro Sugiyama, Katsuaki Hoshino, Izumi Sasaki

P-054

Functional interaction between matrix and nucleocapsid proteins of measles virus

Masaharu Iwasaki, Makoto Takeda, Yuichiro Nakatsu, Yuta Shirogane, Takanori Nakamura, Yusuke Yanagi

P-055

Novel function of DNA triggered innate immune responses

Sumio Hayakawa, Fumi Kashigi, Shouhei Goto, Zhou Yanyan, Akinori Takaoka

P-056

Variants of JFH1 Strain of Hepatitis C Virus That Has Adapted to Huh7 Cells.

Lijuan Yu, Chie Aoki, Yoko Shimizu, Wei Hou, Fumihiro Yagyu, Masamichi Oshima, Aikichi Iwamoto, Bin Gao, Frank Wenjun Liu, George Fu Gao, Yoshihiro Kitamura

P-057

In vitro replication efficiencies of hepatitis C virus JFH-1 strain with mutations emerged in chimpanzees.

Mohsan Saeed, Takanobu Kato, Takaji Wakita.

P-058

H5N1 influenza viruses from pigs in Indonesia.

Ryo Takano, Shinya Yamada, Chairul A. Nidom, Yuko Sakai-Tagawa, Yukiko Muramoto, Takashi Suzuki, Yasuo Suzuki, Yoshihiro Kawaoka

P-059

Rapid detection of infectious bronchitis virus in chickens using reverse transcription – polymerase chain reaction (RT-PCR)

Khalil, S.A.

P-060

A Low Cost HIV-1 Viral Load Detection Using a Commercial Real-Time PCR reagent and Light Cycler 1.2 Instrument

Sumonmal Uttayamakul, Sirirat Likanonsakul, Ruengpung Sutthent, Srisin Khusmith, Achara Chaovavanich

P-061

HLA-C-dependent rash in HIV patients with nevirapine treatment at Bamrasnaradura Institute, Thailand

Siriluk Feangvad, Sirirat Likanonsakul, Tippawan Rattanatham, Sumonmal Uttayamakul, Emi E. Nakayama, Tatsuo Shioda

P-062

The study on host factors influencing efficacy of anti-retroviral therapy in HIV-1 infected individuals in Thailand

Tippawan Rattanatham, Sirirat Likanonsakul, Sumonmal Uttayamakul, Siriluk Feangvad, Emi E. Nakayama, Tatsuo Shioda

P-063

Change of Viral RNA in a Chinese Patient Resistant to Interferon/Ribavirin Therapy for Hepatitis C Infection

Yazhi Wei, Lianhe Lu, Xianzi Wen, Zhihai Chen, Chie Aoki, Fumihiro Yagyu, Aikichi Iwamoto, Bin Gao, Frank Wenjun Liu, George Fu Gao, Yoshihiro Kitamura

P-064

Novel antigens at Plasmodium falciparum schizont-merozoite stages as potential vaccine candidates

Takafumi Tsuboi, Satoru Takeo, Hirokazu Sakamoto, Naomi Hirabayashi, Hitoshi Otsuki, Motomi Torii

P-065

Gender and genetic control of resistance to intestinal amebiasis in inbred mice.

Shinjiro Hamano, Stephen Becker, Amon Asgharpour, Yina PR Ocasio, Suzanne E Stroup, Marcia McDuffie, Eric Houpt

P-066

Enhancement of host cell apoptosis by a secreted molecule from Toxoplasma gondii, Programmed Cell Death 5

Yoshifumi Nishikawa, Hiroshi Bannai, Kyoko Yamada, Xuenan Xuan

P-067

NFATc1 mediates Toll-like receptor-independent innate immune responses during *Trypanosoma cruzi* infection

Masahiro Yamamoto, Hisako Kayama, Ritsuko Koga, Koji Atarashi, Kenya Honda, Kiyoshi Takeda

P-068

Analyzing membrane anchors for mitochondrial enzymes of malaria parasites

Tatsushi Mogi, Kiyoshi Kita

P-069

Centromere and telomere improve the segregation of the episomal plasmid during the cell division of *Plasmodium berghei*.

Shiroh Iwanaga, Naomi Yokoyama, Izumi Kaneko, Masao Yuda

P-070

Antimalarial Drug Development Research: Pharmacokinetics and Proteome analysis

Hye-Sook Kim, Yuka Komichi, Maki Saiki, Masayuki Morita, Akiko Hiramoto, Osamu Hiraoka,

Araki Masuyama, Masatomo Nojima, Satoru Kawai, Yusuke Wataya

P-071

Proteome analysis of *Schistosoma mansoni* in the treatment of the infected animals with a new antischistosomal endoperoxide, N-89

Yusuke Wataya, Hye-Sook Kim, Akiko Hiramoto, Akira Sato, Takashi Kumagai, Rieko Shimogawara,

Toshie Taniguchi, Nobuo Ohta

P-072

Lineage-specific positive selection in the merozoite surface protein 1 gene of *Plasmodium vivax* and related simian malaria parasites

Hiromi Sawai, Hiroto Otani, Toshihiro Horii, Kazuyuki Tanabe

P-073

Impact of midgut bacteria on *Plasmodium* development in mosquito

Hironori Bando, Hiroka Aonuma, Shinya Fukumoto, Hirotaka Kanuka

P-074

Notch2 controls T cell cytotoxicity for eradicating intracellular pathogen, *Trypanosoma cruzi*

Yoichi Maekawa, Koji Yasutomo

P-075

Trypanosoma cruzi modifies an apoptosis inhibitor, cellular FLIP, by S-nitrosylation in host cells

Junko Shimada, Toshimitsu Hatabu

P-076

In vivo administration of IL-33 induces goblet cells capable of expelling *Nippostrongylus brasiliensis* in the absence of adaptive immune system

Koubun Yasuda, Yuki Sasaki, Yuichi Kondo, Makoto Matsumoto, Tomohiro Yoshimoto, Kenji Nakanishi

P-077

The roles of microRNAs in host immune responses against infectious parasites

Taro Fukao, Masanobu Tanabe, Maiko Hirai, Kouji Shimoda, Tsutomu Takeuchi, Yoko Fukuda

P-078

Characterization of methionine γ -lyases from enteric protozoan parasite, *Entamoeba histolytica*, as a potential drug target against amoebiasis

Dan Sato, Wataru Yamagata, Tsuyoshi Karaki, Akira Shimizu, Shigeharu Harada, Tomoyoshi Nozaki

P-079

Biochemical analysis of trypanosome alternative oxidase (TAO) as a drug target for the practical use of its specific inhibitor, ascofuranone

Yasutoshi Kido, Shigeharu Harada, Kiyoshi Kita

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Metabolomic and transcriptomic analysis of sulfur-containing amino acid metabolism in the enteric protozoan parasite *Entamoeba histolytica*

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