

# The 12th Awaji International Forum on Infection and Immunity

## Poster Presentation

<Presentation Time>

Odd Numbers: Sep. 11 (Wed) 13:00 - 14:30

Even Numbers: Sep. 12 (Thu) 13:00 - 14:30

	Poster Number	Presenter
	⊙=Oral Presenters	Name
<b>Viral Infections</b>		
	P-01	Michiko Hyakumura
	P-02	Michiko Hyakumura
	P-03	Ernest W Apondi
	P-04	Satoshi Komoto
	P-05	Mohammed Nure Alam Siddiquey
	P-06	Fugui Bai
⊙	P-07	Kotaro Mori
	P-08	Mutsumi Awano
	P-09	Kouichi Kitamura
	P-10	Eri Takeda
⊙	P-11	K Yasuma
	P-12	Tomomitsu Doi
	P-13	Kahoru Taya
	P-14	Hanggoro Tri Rinonce
	P-15	Yuki Takamatsu
	P-16	Seii Ohka
	P-17	Dewiyani I Widasari
⊙	P-18	Satoshi Koike
	P-19	Masaru Arimoto
	P-20	Takashi Irie
	P-21	Takemasa Sakaguchi
	P-22	Erika Ishitsubo
	P-23	Jin Gohda
	P-24	Muhareva Raekiansyah
	P-25	Lijun Gu
⊙	P-26	Noriyoshi Yoshinaga
	P-27	Jun Arie
	P-28	Hirohito Ishikawa
	P-29	Yasushi kawaguchi
	P-30	Shuheii Nakane
⊙	P-31	Hiroyuki Yamamoto
	P-32	Sofuku Kozue
	P-33	Honda Tomoyuki
	P-34	Hafsa Afroz
<b>Parasitic Infections</b>		
⊙	P-35	Chikako Shimokawa
	P-36	Joe Kimanthi Mutungi
	P-37	Evaristus C. Mbanefo
	P-38	Bao Quoc Lam
	P-39	Nguyen T Huy
	P-40	Nobuko Arisue
	P-41	Nirianne Marie Q. Palacpac
⊙	P-42	Hong Zhao
	P-43	Takahiro Tougan
	P-44	Kishor Pandey

<b>Parasitic Infections</b>		
	P-45	Izumi Kaneko
◎	P-46	Hussein Abkallo
	P-47	Richard Culleton
	P-48	Jisu Ma
	P-49	Masanori Yagi
◎	P-50	Yongjin Qiu
	P-51	Richmond Afoakwah
	P-52	Elvis A. Ofori
	P-53	Dwi P. Kartikasari
	P-54	Sri W. Sulistyawati
	P-55	Wichai Pornthanakasem
	P-56	Jintana Yanola
	P-57	Pinpunya Riangrunroj
	P-58	Johnson N. Boampong
<b>Bacterial Infections</b>		
	P-59	Anis Ahmad
	P-60	Hiroki Iwai
	P-61	Mohammad Oves
◎	P-62	Erika Ban
	P-63	Sheru W Gathui
◎	P-64	Jun Kurushima
◎	P-65	Bhim G Dhoubhadel
	P-66	Kentaro Sakashita
	P-67	Siriporn Kongsoi
	P-68	Kanjana Changkaew
	P-69	Ruchirada Changkwanyeon
	P-70	Takuhiro Matsumura
◎	P-71	Tomoko Kubori
	P-72	Hiroyuki Yamaguchi
	P-73	Naomi Ohnishi
	P-74	Fumio Ike
	P-75	Hafsa Afroz
<b>Host Defense and Immunity</b>		
	P-76	Daisuke Okuzaki
	P-77	Mohamed A. Akeila
	P-78	Shin Morizane
◎	P-79	Daisuke Ori
	P-80	Mahamoud Sama Cherif
◎	P-81	Masahide Funabiki
◎	P-82	Takeshi Matsuzawa
	P-83	Yui Washi
	P-84	Naoki Takemura
◎	P-85	Jin Kyung Kim
	P-86	Hiroshi Ishii
	P-87	Kento K Kimura
	P-88	Tae Sung Kim
	P-89	Jwa-Jin Kim
◎	P-90	Takumi Kawasaki
	P-91	Hassan T. Tag El-Din Hassan

# List of Poster Presentations

P-01

**Development and assessment of non-native virus-like particles with enhanced immunogenicity**

Michiko Hyakumura, Wan-Shoo Cheong, Sean Flegeltaub, Hans Netter

P-02

**Virus-like particles as a scaffold for HIV-1 specific antigenic sequences**

Michiko Hyakumura, Natalie Bitto, Wan-Shoo Cheong, Pantelis Pountourios, Hans Netter

P-03

**DETECTION AND MOLECULAR CHARACTERIZATION OF ROTAVIRUS STRAINS FROM DIARRHOEAL CHILDREN IN KIAMBU, KENYA, BETWEEN 2009 AND 2011**

Ernest W Apondi, Koki Taniguchi, Satoshi Komoto, Yoshimasa Maeno, Mitsutaka Wakuda, Mohammad Shah, Yoshio Ichinose

P-04

**A plasmid-based reverse genetics system for mammalian orthoreoviruses driven by a plasmid-encoded T7 RNA polymerase**

Satoshi Komoto, Takahiro Kawagishi, Mayuko Tomita, Takeshi Kobayashi, Terence S Dermody, Koki Taniguchi

P-05

**Establishment of an animal model using NOG mouse and its application to the treatment of EBV-associated NK-cell lymphoma**

Mohammed Nure Alam Siddiquey, Tetsuhiro Kanazawa, Seiko Iwata, Fumi Goshima, Takayuki Murata, Tatsuya Tsurumi, Hiroshi Kimura

P-06

**Quantification of pregenomic RNA and covalently closed circular DNA in hepatitis B virus-related hepatocellular carcinoma**

Fugui Bai, Yoshihiko Yano, Atsushi Takebe, Motofumi Tanaka, Kaori Kuramitsu, Nungki Anggorowati, Hanggoro Tri Rinonce, Dewiyani Indah Widasari, Masaya Saito, Hiroataka Hirano, Takanobu Hayakumo, Yasushi Seo, Takeshi Azuma, Yonson Ku

P-07 (S2-5)

**Tamiflu resistant cell-to-cell transmission of cell-associated influenza virus**

Kotaro Mori, Takahiro Haruyama, Kyosuke Nagata

P-08

**Development of easy and speedy detection system for Hendra and Nipah virus by reverse transcription smart amplification process (RT-SmartAmp)**

Mutsumi Awano, Alexander Lezhava, Yasumasa Kimura, Misako Yoneda, Hiroki Sato, Yoshihide Hayashizaki, Chieko Kai

P-09

**Concerted action of AID/APOBEC proteins and uracil-DNA glycosylase against covalently closed circular DNA of hepatitis B virus**

Kouichi Kitamura, Sajeda Chowdhury, Zhe Wang, Miyuki Simadu, Miki Koura, Masamichi Muramatsu

P-10

**Slower uncoating is associated with impaired replicative capability of simian-tropic HIV-1**

Eri Takeda, Ken Kono, Hiromi Tsutsui, Ayumu Kuroishi, Amy E. Hulme, Thomas J. Hope, Emi. E Nakayama, Tatsuo Shioda

P-11 (S2-8)

**Analysis of HTLV-1 subgroups as a predictor for developing HAM/TSP.**

K Yasuma, M Matsuoka, M Saito

P-12

**Measles virus establishes persistent infection by negative feedback regulation with IFN  $\beta$**

Tomomitsu Doi, Hiroki Sato, Misako Yoneda, Chieko Kai

P-13

**Moderate restriction of macrophage tropic human immunodeficiency virus type 1 by SAMHD1 in monocyte-derived macrophages**

Kahoru Taya, Emi E Nakayama, Shioda Tatsuo

P-14

**Prevalence and Genotype Distribution of GB Virus C/ Hepatitis G Virus Among Hemodialysis Patients in Yogyakarta, Indonesia**

Hanggoro Tri Rinonce, Yoshihiko Yano, Takako Utsumi, Didik Setyo Heriyanto, Nungki Anggorowati, Dewiyani Indah Widasari, Widya Wasityastuti, Laura Navika Yamani, Maria Inge Lusida, - Soetjipto, Heru Prasanto, Hak Hotta, Yoshitake Hayashi

P-15

**NS1' protein facilitates Japanese Encephalitis virus production in avian cells.**

Yuki Takamatsu, Kenta Okamoto, Tuan Duc Dinh, Fuxun Yu, Daisuke Hayasaka, Leo Uchida, Takeshi Nabeshima, C Buerano Corazon, Kouichi Morita

P-16

**Analysis of Enterovirus infection in motor neuron using microfluidic culture platform**

Seiji Ohka, Ken Fujii, Shohei Kaneda, Hiroko Nakamura, Teruo Fujii, Satoshi Koike

P-17

**Molecular Differences of Hepatitis E Virus Infection from Two Distinct Communities in Indonesia**

Dewiyani I Widasari, Yoshihiko Yano, Takako Utsumi, Didik Setyo Heriyanto, Nungki Anggorowati, Hanggoro Tri Rinonce, Totok Utoro, Maria Inge Lucida, Soetjipto -, Widya Asmara, Hak Hotta, Yoshitake Hayashi

P-18 (S2-4)

**A SCARB2-transgenic mouse model for the study of enterovirus 71 pathogenesis**

Ken Fujii, Satoshi Koike

P-19

**Involvement of ESCRT factors in dengue virus propagation**

Masaru Arimoto, Keisuke Tabata, Saito Kazunobu, Matsuura Yoshiharu, Morita Eiji

P-20

**Paramyxovirus Sendai virus N protein plays a critical role on restricted production of copyback-type DI genomes to escape from detection by host innate immunity**

Asuka Yoshida, Ryoko Kawabata, Takemasa Sakaguchi, Takashi Irie

P-21

**Stress granule-like structures are not involved in recognition of Sendai virus infection**

Asuka Yoshida, Takemasa Sakaguchi, Takashi Irie

P-22

**Novel in silico analysis based on the first-principle calculations and molecular dynamics simulations of molecular mechanism of influenza virus pathogenesis**

Erika Ishitsubo, Karl N. Kirshner, Nongluck Sriwilaijaroen, Yasuo Suzuki, Hiroaki Tokiwa

P-23

**Human osteoclasts as a possible target for HIV-1**

Jin Gohda, Yijing Ma, Lijun Gu, Jun-ichiro Inoue, George Fu Gao, Bin Gao, Aikichi Iwamoto, Takaomi Ishida

P-24

**Suppression of TNF-  $\alpha$  -induced endothelial permeability by dengue virus infection**

Muhareva Raekiansyah, Lyre Anni Espada-Murao, Kenta Okamoto, Toru Kubo, Kouichi Morita

P-25

**Emergence of Lamivudine-resistant HBV during HAART including Lamivudine for patients co-infected with HIV and HBV in China**

Lijun Gu, Yang Han, Ying Huang, Ting Zhu, Jin Gohda, Noriaki Hosoya, Jing Xie, Aikichi Iwamoto, Taisheng Li, Takaomi Ishida

P-26 (S2-7)

**A screening for DNA repair enzymes involved in HIV-1 replication**

Noriyoshi Yoshinaga, Yusuke Matsui, Keisuke Shindo, Shunichi Takeda, Akifumi Takaori-Kondo

P-27

**Non-Muscle Myosin Heavy Chain IIB Associates with Herpes Simplex Virus 1 Envelope Glycoprotein B and Mediates Viral Entry**

Jun Arai, Kato Akihisa, Kawaguchi Yasushi

P-28

**Monitoring membrane fusion between virus like particles and receptor cell by dual-functional split reporter protein**

Hirohito Ishikawa, Fanxia Meng, Aikichi Iwamoto, Zene Matsuda

P-29

**The endosomal sorting protein SNX3 is phosphorylated by herpes simplex virus 1 protein kinase Us3 and plays a critical role in viral replication and pathogenesis**

Akihisa Kato, Yoshitaka Hirohata, shinya Oda, Jun Arai, Yasushi kawaguchi

P-30

**Labeling of HIV-1 Env within gp120 subunit by fluorescent proteins with retaining fusogenicity in cell-cell and virus-cell conditions**

Shuhei Nakane, Aikichi Iwamoto, Zene Matsuda

P-31 (S2-6)

**Selection of a survival signal-modulating CTL escape mutant precedes SIV neutralizing antibody induction**

Hiroyuki Yamamoto, Tetsuro Matano

P-32

**Epigenetic regulation of the expression of an endogenous bornavirus element in the human genome**

Sofuku Kozue, Honda Tomoyuki, Tomonaga Keizo

P-33

**A cooperative role of the mutations within the polymerase gene and the leader sequence of Borna disease virus in viral transcription activity and viral factory formation**

Honda Tomoyuki, Sofuku Kozue, Tomonaga Keizo

P-34

**A Retrospective Study on Seroprevalence of Hepatitis B Virus Surface Antigen (HbsAg) among Healthy Individuals Attending a Tertiary Care Clinic in Dhaka, Bangladesh.**

Hafsa Afroz, Manjur Hossain, \_ Fakruddin, Afzal Hossain, Abdur R Khan, Zahed U M Khan, Suvamoy Datta

P-35 (S5-5)

**Intestinal inflammatory mediated clearance of *Entamoeba moshkovskii* is dependent on IFN- $\gamma$  Y**

Chikako Shimokawa, Masachika Senba, Seiki Kobayashi, Mihoko Kikuchi, Hajime Hisaeda, Shinjiro Hamano

P-36

**Imaging of the molecular dynamics of malaria antigens during erythrocyte invasion**

Joe Kimanthi Mutungi, Kazuhide Yahata, Osamu Kaneko

P-37

**Characterization of a novel SEA-domain protein family with lectin-like and heme-binding properties from *Schistosoma japonicum***

Evaristus C. Mbanefo, Mihoko Kikuchi, Nguyen T. Huy, Mohammed N. Shuaibu, Mahamoud S. Cherif, Yu Chuanxin, Yasuo Suda, Kenji Hirayama

P-38

**CD19(+) B cells Confer Protection Against Experimental Cerebral Malaria In Semi-immune Rodent Model**  
Bao Quoclam

P-39

**hospholipid Membrane-Mediated Hemozoin Formation: an Evidence of Membrane Surrounding Hemozoin and the Essential Fluid Phase of Phospholipids**

Nguyen T Huy, Atsushi Maeda, Yusuke Shima, Tran T Men, Ai Hirase, Atsuo Miyazawa, Kenji Hirayama, Kaeko Kamei

P-40

**No allele specific immune response to *Plasmodium falciparum* SERA5 in participants that experienced malaria infection during the BK-SE36 malaria vaccine trial.**

Nobuko Arisue, Nirianne M. Q. Palacpac, Masanori Yagi, Takahiro Tougan, Betty Balikagala, Adoke Yeka, Edward Ntege, Bernard N. Kanoi, Katuru Osbert, Thomas G. Egwang, Toshihiro Horii

P-41

**A blood-stage vaccine clinical trial and follow-up study in Uganda: The promise of BK-SE36**

Nirianne Marie Q. Palacpac, Edward Ntege, Betty Balikagala, Adoke Yeka, Nahoko Suzuki, Hiroki Shirai, Kazuya Ito, Masanori Yagi, Christopher Nsereko, Bernard Kanoi, Takuya Okada, Kohhei Tetsutani, Wakaba Fukushima, Yoshio Hirota, Nobuko Arisue, Sawako Ita

P-42 (S7-5)

**IMAGING CEREBRAL MALARIA IMMUNOPATHOLOGY**

Hong Zhao, Taiki Aoshi, Satoru Kawai, Shizuo Akira, Yoshichika Yoshioka, Ken J Ishii, Cevayir Coban

P-43

**African HLA Genes in a Population That Participated in the Phase-1b Trial of BK-SE36**

Takahiro Tougan, Nirianne Q. Palacpac, Masanori Yagi, Thomas G. Egwang, Toshihiro Horii

P-44

**Differential response of malaria parasite against the inhibitors of mammalian sarco-endoplasmic reticulum  $Ca^{2+}$ -ATPase**

Kishor Pandey, Pedro E Ferreira, Kazuhide Yahata, Osamu Kaneko

P-45

**AP2-O, a master transcription factor of the malaria ookinete**

Izumi Kaneko, Tomomi Kato, Shiroh Iwanaga, Masao Yuda

P-46 (S7-6)

**Quantitative Whole Genome Resequencing and Genetic Linkage Analyses To Identify Genes Controlling Virulence in Malaria Parasites**

Megumi Inoue, Hussein Abkallo, Phonepadith Xangsayarath, Paul Hunt, Augustin Zoungrana, Hayato Mitaka, Osamu Kaneko, Ville Mustonen, Andrej Fischer, Chris Illingworth, Axel Martinelli, Ho Y. Shwen, Arnab Pain, Richard Culleton

P-47

**Detection of Pre-Erythrocytic Stage Malaria Parasite DNA in Blood and Faeces of Sporozoite-Infected Mice and Monkeys**

Hussein M Abkallo, Pedro E Ferreira, Shusuke Nakazawa, Sarina Hokama, Yoshimasa Maeno, Nguyen T Quang, Ron Marchand, Mike Huffman, Satoru Kawai, Weimin Lui, Paul Sharp, Beatrice Hahn, Richard Carter, Richard Culleton

P-48

**Identification of Toxoplasma dense granule proteins that potentially affect host transcriptional signalling pathways**

Jisu ma, Miwa Sasai, Jun Ohshima, Kiyoshi Takeda, Masahiro Yamamoto

P-49

**N-terminal repetitive sequences of *Plasmodium falciparum* SERA5 are malaria protective epitopes with an intrinsically unstructured nature in Ugandan adults**

Masanori Yagi, Gilles Bang, Nobuko Arisue, Takahiro Tougan, Nirianne M.Q. Palacpac, Taiki Aoshi, Ken J. Ishii, Thomas G. Egwang, Pierre Druilhe, Toshihiro Horii

P-50 (S7-7)

**Analysis on tick microbial populations using next generation sequence technique**

Yongjin Qiu, Ryo Nakao, Aiko Ohnuma, Chihiro Sugimoto

P-51

**HIGH PREVALENCE OF *PLASMODIUM FALCIPARUM* DRUG RESISTANT MARKERS IN GHANA THREATENS THE CONTINUOUS USE OF ARTEMISININ-BASE COMBINATION THERAPY (ACT)**

Richmond Afoakwa, Johnson N. Boampong, Alexander Egyir-Yawson, Ekene K. Nwaefuna, Orish N. Verner

P-52

***In vivo* Antimalarial Activity of Stem Bark Extracts of *Plumeria alba* Against *Plasmodium berghe* in ICR mice**

N. Boampong, Elvis A. Ofori, S. Kyei, K. Asare, R. Afoakwa, A. Boye, J.H. Donfack

P-53

**Decreased Expression of mRNA of Macrophage Migration Inhibitory Factor (MIF) and CD74 in the Low Levels of Hemoglobin in BALB/c Mice Infected with *Plasmodium yoelii* 17XL**

Dwi P. Kartikasari, Sri Wijayanti, Fitriah, Budiono, Rita Marletta, Sukmawati Basuki, Boerhan Hidajat, Sri H. BS, Yoes P. Dachlan

P-54

**No expression of mRNA of Interleukin-10 (IL-10) and Interlukin-10 Receptors in late stage of BALB/c mice infected with *Plasmodium yoelii* 17XL**

Sri W. Sulistyawati, Dwi P. Kartikasari, Fitriah, Budiono, Rita Marletta, Sukmawati Basuki, Boerhan Hidajat, Sri H. BS, Yoes P. Dachlan

P-55

***Plasmodium* serine hydroxymethyltransferase: indispensability and display of distinct localization**

Wichai Pornthanakasem, Darin Kongkasuriyachai, Chairat Uthaipibull, Yongyuth Yuthavong, Ubolsree Leartsakulpanich

P-56

**Identification of a knockdown resistance mutation associated with pyrethroid resistance in the voltage-gated sodium channel gene of the bancroftian filariasis vector *Culex quinquefasciatus* from northern Thailand**

Jintana Yanola, Saowanee Chamnanya, Nongkran Lumjuan, Pradya Somboon

P-57

**Expression, Purification, and Characterization of *Leishmania siamensis* triose-phosphate isomerase**

Pinpunya Riangrungraj, Wichai Pornthanakasem, Buabarn Kuaprasert, Ubolsree Leartsakulpanich

P-58

**The curative and prophylactic effects of xylopic acid on *Plasmodium berghei* infection in mice**

Johnson N. Boampong, E.O. Ameyaw, B. Aboagye, K. Asare, S. Kyei, J.H. Donfack, E. Woode

P-59

**Molecular epidemiology of neonatal candidiasis, antifungal susceptibility and clonal relatedness of *Candida* species: a five year study from Northern India**

Anis Ahmad, Absarul Haque, Rajendra Prasad, Gauranga Mukhopadhyay, Asad Ullah Khan

P-60

**Mycobacterial PE\_PGRS62 gene is a virulence factor during tuberculosis**

Hiroki Iwai, Teruo Kirikae

P-61

**Antibacterial and Cytotoxic Efficacy of Silver Nanoparticles Biofabricated from OS4 Strain of *Stenotrophomonas maltophilia***

Mohammad Oves, Saghir Khan Mohammad, Zaidi Almas, S Arham , Ahmad Faheem, Ahamd Ejaz, Sherwani Asif, Mohammad Owais, Azam Ameer

P-62 (S6-6)

**DNA sequence and analysis of virulence plasmid of enterotoxigenic *Escherichia coli* O169:H41 that adheres to HEp-2 cells in unique aggregative adhesion-like manner**

Erika Ban, Yuka Yoshida, Takayuki Wada, Naoki Ichikawa, Takashi Hamabata, Takeaki Wajima, Yoshikazu Nishikawa

P-63

**Trends of Acute Illness Symptoms and Health Seeking Behavior in Rural Western Kenya: A Case of the Mbita Health and Demographic Surveillance System.**

Sheru W Gathui, Morris Ndemwa, Kensuke Goto, Junichi Tanaka, James KOpiyo, Satoshi Kaneko, Mohamed Karama, Yoshio Ichinose, Masaaki Shimada

P-64 (S6-7)

**Functional analysis of bacteriocin Bac41 produced by *Enterococcus faecalis* clinical isolates**

Jun Kurushima, Tomita Haruyoshi

P-65 (S6-5)

**Association of Bacterial Load and Multiple-Serotype Colonization of Pneumococcus with Childhood Pneumonia in Vietnam**

Bhim G Dhouhadel, Lay M Yoshida, Hien A T Nguyen, Le N Minh, Tho H Le, Michio Yasunami, Motoi Suzuki, Konosuke Morimoto, Anh D Dang, Koya Ariyoshi

P-66

**The whole blood TB diagnostic assay with multiple cytokine profile is feasible and more informative in TB-highly endemic, resource-limited countries**

Kentaro Sakashita, Naomi Ruth D Saludar, Edith S Tria, Yoshiro Yamashita, Michio Yasunami, Takaharu Shimazaki, Suzuki Motoi, Morimoto Kounosuke, Efren M Dimaano, Jose B Villarama, Winston S Go, Koya Ariyoshi

P-67

**Impact of Quinolone Resistance-Associated Amino Acid Substitutions in GyrA affects DNA Supercoiling in *Salmonella* Typhimurium**

Siriporn Kongsai, Kazumasa Yokoyama, Apinun Suprasert, Orasa Suthienkul, Fuangfa Utrarachkij, Chie Nakajima, Yasuhiko Suzuki

P-68

**Characterization of antimicrobial resistance and class 1 integrons of *Escherichia coli* isolated from swine in Thailand**

Kanjana Changkaew, Chie Nakajima, Orasa Suthienkul, Yasuhiko Suzuki

P-69

**Impact of mutations in DNA gyrase genes on fluoroquinolones resistance in *Campylobacter jejuni***

Ruchirada Changkwanyeeun, Kazumasa Yokoyama, Hyun Kim, Chie Nakajima, Yasuhiko Suzuki

P-70

**Development of human monoclonal antibodies effectively neutralizing botulinum neurotoxin**

Takuhiro Matsumura, Kaoru Sasaki, Yo Sugawara, Masahiro Yutani, Tomoko Kohda, Motohide Takahashi, Shunji Kozaki, Kazuyoshi Ikuta, Yukako Fujinaga

P-71 (S3-5)

**Characterization of *Legionella* DotI and DotJ subcomplex reveals a VirB8-like structure essential for type IV secretion function**

Tomoko Kubori, Takuya Kuroda, Yumiko Uchida, Katsumi Imada, Hiroki Nagai

P-72

**High-temperature adapted primitive chlamydia found in amoebae isolated from a hot spring can grow in immortalized human epithelial cells**

Hiroyuki Yamaguchi, Junji Matsuo, Kenji Yagita, Shinji Nakamura, Hiroki Nagai

P-73

***De novo* designed molecule to develop structure-based vaccine against Anthrax**

Naomi Ohnishi, Memi Muto, Daisuke Fujikura, Manabu Igarashi, Hideaki Higashi

P-74

**Rodent Pneumonic CAR Bacillus in vitro Infection Model using Murine Epithelial Cell**

Fumio Ike, Ayako Kajita, Hiromi Sakata, Atsushi Yoshiki, Tosiaki Kokubo



P-75

**A RETROSPECTIVE STUDY ON PREVALENCE OF *SALMONELLA* BLOODSTREAM INFECTIONS AND STUDY OF ITS ANTIBIOTIC SENSITIVITY PATTERN IN DHAKA, BANGLADESH.**

Hafsa Afroz, Manjur Hossain, Fakruddin, Afzal Hossain, Zahed U M Khan, Suvamoy Datta

P-76

**Expression of complement factors are induced in DBA/2 mice following administration of *C. albicans* water-soluble mannoprotein-beta-glucan complex (CAWS)**

Daisuke Okuzaki, Noriko Nagi-Miura, Kosuke Torigata, Minami A Sakurai, Hodaka Fujii, Akihiko Ito, Naohito Ohno, Hiroshi Nojima

P-77

**Effect of Vetadiacure probiotic on the immune system of broiler**

Mohamed A. Akeila, R. Diab, H. Elqany, A. Abdelmaged

P-78

**Cahtelicidin antimicrobial peptide LL-37 enhances double-stranded RNA-induced IFN-beta expression and anti-viral activity in skin viral infection.**

Shin Morizane, Tetsuya Takiguchi, Keiji Iwatsuki

P-79 (S5-6)

**Essential Roles of K63-Linked Polyubiquitin-Binding Proteins, TAB2 and TAB3 in B Cell Activation via MAPKs.**

Daisuke Ori, Hiroki Kato, Hideki Sanjo, Sarang Tartey, Takashi Mino, Shizuo Akira, Osamu Takeuchi

P-80

**Protective nanoparticles-coated PYGPI8p-transamidase related protein ("PyTAM") DNA vaccine in Plasmodium yoelii malaria model enhanced the Dendritic Cells maturation and production of IL-12.**

Mahamoud Sama CHERIF, Mohammed Nasir Shuaibu, Yukinobu Kodama, Tomoaki Kurosaki, Mihoko Kikuchi, Gideon Kofi Helegbe, Tetsuo Yanagi, Hitoshi Sasaki, Katsuyuki Yui, Nguyen Huy Tien, Juntra Karbwang, Akitoyo Ichinose, Kenji Hirayama

P-81 (S5-7)

**Dysregulation of MDA5-dependent signaling causes autoimmune disorder**

Masahide Funabiki, Hiroki Kato, Takashi Fujita

P-82 (S6-8)

**Autophagy activation by interferon-  $\gamma$  Y via the p38 MAPK signaling pathway is involved in macrophage bactericidal activity**

Takeshi Matsuzawa, Eri Fujiwara, Yui Washi

P-83

**Observation of autophagosome maturation in the interferon-  $\gamma$  Y-primed and lipopolysaccharide-activated macrophages**

Eri Fujiwara, Yui Washi, Takeshi Matsuzawa

P-84

**Blockade of TLR3 protects mice from lethal radiation-induced gastrointestinal syndrome**

Naoki Takemura, Hiroshi Kiyono, Shizuo Akira, Satoshi Uematsu

P-85 (S6-9)

**MicroRNA-17-5p regulates Mycobacterium tuberculosis-induced Innate immune responses in murine macrophages**

Jin Kyung Kim, Tae Sung Kim, Hyo Sun Jin, Hye-Mi Lee, Eun-Kyeong Jo

P-86

**SIV Env gp120-specific effector memory CD8<sup>+</sup> T-cell frequencies are associated with viral burdens in lymph nodes**

Hiroshi Ishii, Saori Matsuoka, Tetsuro Matano

P-87

**Analysis of the *Candida glabrata* infectious disease onset mechanism using the nematode and the action mechanism of the antibiotic**

Kento K Kimura

P-88

**TLR2-dependent signaling pathway and reactive oxygen species are required for the expression of *Mycobacterium abscessus*-induced CCL2 expression in macrophages**

Tae Sung Kim, Jin Kyung Kim, Hye-Mi Lee, Eun-Kyeong Jo

P-89

***Mycobacterium*-derived ROS generation initiates autophagy in *Mycobacterium tuberculosis*-infected macrophages after antibiotic treatment**

Jwa-Jin Kim, Hye-Mi Lee, Dong-Min Shin, Jae-Min Yuk, Hyo Sun Jin, Chang-Hwa Song, Hwa-Jung Kim, Jeong-Kyu Park, Eun-Kyeong Jo

P-90 (S4-3)

**Regulation of innate immune signaling by PtdIns5P**

Takumi Kawasaki, Naoki Takemura, Standley Daron, Shizuo Akira, Kawai Taro

P-91

**Identification of Turkey and Helmeted Guinea Fowl Mx Gene**

Hassan T. Tag El-Din Hassan







































































































































































































































































































































































































































































































































