
**The 9th Japan-China
International Conference of Virology**

Program and Abstract

**June 12-13, 2012
Sapporo Japan**

Chairperson of the Conference

Prof. Koichi Yamanishi (Japan)

Prof. George Fu Gao (China)

Honorary Chairperson of the Conference

Prof. Guanfu Zhu (China)

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China: Zhaohua Zhong, Xu Teng, Yong Fang

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Japanese Society for Virology

Committee on Virology, Chinese Society for Microbiology

Co-sponsors

The Research Foundation for Microbial Diseases of Osaka University

Harbin Medical University,

China State Key Laboratory for Infectious Disease Prevention and Control,

China State Key Laboratory for Pathogen & Biosecurity,

China State Province Key Laboratories of Biomedicine Pharmaceuticals of China

Preface

Distinguished participants and guests, on behalf of the Japan-China International Conference of Virology and Japanese side Local Organizing Committee, I sincerely welcome you to the 9th Japan-China International Conference of Virology, in Sapporo.

The Japan-China International Conference of Virology has been held every 4 or 2 years since its first conference, held in Beijing in year 1992, when the 20th Anniversary of normalization of Sino-Japanese relations. It is our great pleasure to be able to have 40 years of Anniversary of normalization of Sino-Japanese relations, as well as the first 20 years Anniversary in the Japan-China International Conference of Virology in 2012.

This conference seeks to provide a good platform for exchanging ideas and information among virologists in various fields. The internet now enable us to communicate with each other without time. However, if we do not have real friendship with mutual confidence, the new communication system will not assist for our real collaboration. In this sense, establishment of friendship through face-to-face communication is still a very important. I believe that this conference provides good opportunity for scientists in both countries, particularly young researchers to meet together and make friendship which continues to next generations.

On March 11th, 2011, an unprecedented earthquake and tsunami hit the Tohoku region in Japan. We would like to express our sincere appreciation for contribution and warm messages from Chinese Government and Chinese people to our difficult experience.

I would like to convey all our best wishes for the 9th Japan-China International Conference of Virology to be great scientific and collaborative for every one and to be very successful. Enjoy your stay in Sapporo.

Koichi Yamanishi, M.D., Ph.D.

Chairperson of the 9th Japan-China International Conference of Virology

Preface

We would like to take this opportunity to express our sincere thanks to the Japanese Society of Virology for your warm hospitality and great effort to organize the 9th China-Japan International Conference of Virology. And, on behalf of the Committee on Virology, Chinese Society for Microbiology, we would be very happy to extend our cordial welcome to all participants attending this meeting.

In the past year, China still experienced great challenges in virus related emerging and re-emerging infectious diseases, such as influenza, avian influenza, hand-foot-mouth disease, hepatitis, as well as HIV/AIDS. Chinese government input more and more on scientific researches, especially the infectious diseases prevention and control mega science and technology projects in the "Eleventh Five-Year" plan. With this support, Chinese scientists gained lots of progress and would be happy to share with scientists around the world and to look for more opportunities to cooperate with international scientists, including Japanese virologists. The conference will provide a good platform for virologists from China and Japan to share their research progress and development in the field of virology, viral immunology, and public health.

Lastly, we wish the 9th China-Japan International Conference of Virology satisfactory and fruitful. Hopefully, this conference will facilitate the understanding of new progress in virus related fields and promote more collaboration among scientists from China and Japan.

George F Gao, DPhil

Chairperson, the 9th China-Japan International Conference of Virology

Deputy Chairman, Committee on Virology, Chinese Society for Microbiology

Yiming Shao, M.D., Ph.D.

Chairman, Committee on Virology, Chinese Society for Microbiology

PROGRAM

Venue: ôFurateö Hall, the alumni hall at the Hokkaido University Graduate School of Medicine (Kita-15, Nishi-7, Sapporo 060-8638)

June 11, (Mon) 2012

14:00 ~ 18:00 Registration ôFurateö Hall Lobby

19:00 ~ 20:00 Meeting of Panel Members

June 12 (Tue) 2012

9:00 ~ 9:30 Opening Ceremony “Furate” Hall

Opening Speech by Professor Koichi Yamanishi

Professor George Fu Gao

Professor Jiro Arikawa

9:30 ~ 10:30 Keynote lecture

Chairperson: Jiro Arikawa, George Fu Gao

For the control of highly pathogenic avian Influenza

Hiroshi Kida

Member of the Japan Academy

Specially Appointed Professor, Graduate School of Veterinary Medicine

Head, Research Center for Zoonosis Control

Head, OIE Reference Laboratory for Avian Influenza

Head, WHO Collaborating Centre for Zoonoses Control

Hokkaido University

Recognition of HLA-A*2402 restricted HIV-peptide by an TCR using V 1 segment

Yi Shi, Ai Kawana-Tachikawa, Chuansheng Liu, Jia Gao, Aikichi Iwamoto, George F.

Gao

CAS Key Laboratory of Pathogenic Microbiology and Immunology, Institute of Microbiology, Chinese Academy of Sciences

10:30 ~ 11:00 Group photo and coffee break

11:00 - 12:36 Session 1: Orthomyxoviruses

Chairpersons: Yasuo Suzuki, Kun Yao

1. Applicability of a sensitive duplex real-time PCR assay for identifying B/Yamagata and B/Victoria lineages of influenza virus from clinical specimens

Shisong Fang¹, Ting Wang², Jianxiong Li³, , Cunyou Zhao⁴, Xin Wang¹, Xing Lv¹, Chunli Wu¹, Renli Zhang¹, Jinquan Cheng¹, Hong Xue⁴, Xiaowen Cheng¹

¹ Shenzhen Centre for disease control and prevention, Shenzhen, PR China, ² School of Public Health, Sun Yat-Sen University, Guangzhou, PR China, ³ Jiangxi province Center for disease control and prevention, Beijing, PR China, ⁴ Department of biochemistry, Hong Kong University of Science and Technology, Hong Kong, China

2. Influenza surveillance in Shenzhen, the biggest migratory metropolitan city of China, 2006-2009

X. Wang, C. L. Wu, X. Lv, S. S. Fang, H. W. Ma, J. F. He, X. Xie, S. J. Mei, Y. Li, J. Q. Cheng, X. W. Cheng

Shenzhen Center for Disease Control and Prevention, Shenzhen, China

3. A cross-sectional serological study on the prevalence of antibodies to influenza A (H1N1) 2009 virus in residents of Shenzhen

Lu Xing, Charles Farthing, Wang Xin, Wu Chunli, Fang Shisong, Mou Jin, Zhao Jin, Cheng Xiaowen, Zhang Renli

Shenzhen Center for Disease Control and Prevention, Shenzhen, China

4. Clinical and Molecular Characteristics of 2009 Pandemic Influenza H1N1 Infections with Severe or Fatal Disease from 2009 to 2011 in Shenzhen, China

Chunli Wu, Xiaowen Cheng, Xin Wang, Xing Lv, Fan Yang, Tao Liu, Shisong Fang, Renli Zhang and Jinquan, Cheng

Centers for Disease Control and Prevention, Shenzhen, China

5. Japanese apricot fruit juice concentrate contains anti-influenza compound, mumeferal

Nongluk Sriwilajjaroen^{1,2}, Akio Kadowaki³, Yuriko Onishi³, Nobuki Gato³, Makoto

Ujike⁴, Takato Odagiri⁵, Masato Tashiro⁵, Yasuo Suzuki^{2,6}

¹*Thammasat University, Pathumthani 12120, Thailand*, ²*Health Science Hills, College of Life and Health Sciences, Chubu University, Aichi, 487-8501, Japan*, ³*Food Science Res. Lab. Nakano BC Co. Ltd., Wakayama 642-0034, Japan*, ⁴*Nippon Vet. Life Sci. Univ., Japan*, ⁵*Influenza virus Res. Center, National Inst. Infect. Dis., Tokyo 208-0011, Japan*, ⁶*Global COE Program, Univ. of Shizuoka, Shizuoka, Japan*

6. Preparation of HuMAb against influenza virus and the evaluation of effectiveness and safety

Mayo Yasugi^{1,4}, Yuta Kanai¹, Ritsuko Kubota-Koketsu^{2,4}, Norihito Kawashita¹, Naphatsawan Boonsathorn³, Yoshinobu Okuno², Takaaki Nakaya¹, and Kazuyoshi Ikuta^{1,4}

¹*Institute for Microbial Diseases, Osaka University*; ²*Kanonji Institute, The Research Foundation for Microbial Diseases of Osaka University*, ³*Ministry of Public Health, Thailand*; ⁴*JST/JICA, Science and Technology Research Partnership for Sustainable Development (SATREPS)*

7. Heterosubtypic binding activity of hemagglutinin-specific antibodies induced by inoculation of inactivated influenza virus in mice

Mieko Muramatsu, Reiko Yoshida, Ayato Takada

Division of Global Epidemiology, Research Center for Zoonosis Control, Hokkaido University, Sapporo, Japan

8. Neutralizing antibody response in nasal mucus and serum of healthy adults after intranasal vaccination with inactivated whole influenza virus vaccine

Akira Aina^{1,2}, Shin-ichi Tamura², Tadaki Suzuki², Elly van Riet¹, Ryo Ito², Takato Odagiri¹, Masato Tashiro¹, Takeshi Kurata², and Hideki Hasegawa²

¹*Influenza Virus Research Center and* ²*Department of Pathology, National Institute of Infectious Diseases, Tokyo, Japan*

12:36 ~ 14:00 Lunch

14:00 - 14:36 Session 2: retrovirus, bornavirus and bocavirus

Chairpersons: Toshio Hattori, Yuanyang Hu

9. Cross-Subtype Neutralizing Antibodies in Treatment-naive HIV-1-infected Individuals in China and characteristics of viral envelope derived from broad neutralizers

Hong Ling¹, Ping Zhong², Caiyun Ren¹, Haotong Yu¹, Song Liu¹, Yan Li¹, Min Zhuang¹
Guochao Wei¹, Jiaye Wang², Zhijie Chen³, Feng Sun³, Wei Liu⁴, Shujia Liang⁴

¹Harbin Medical University, Heilongjiang province, ²Shanghai Municipal Center for Disease Control and Prevention, Shanghai, ³Yili Prefecture CDC, Xinjiang province, ⁴Guangxi CDC, Guangxi province, China

10. CD56+ T Cells Inhibit HIV-1 Infection of Macrophages

Yong Feng, Ni Zhu, Li Li, Hai-Rong Xiong, Fan Luo, Zhan-Qiu Yang, and Wei Hou

State Key Laboratory of Virology/Institute of Medical Virology, School of Basic Medical Science, Wuhan University, Wuhan, China

11. Prevalence of Extraordinary low level of HIV-1 infection and HIV-1 specific T cell response in Beijing homosexual cohort

Li Ren¹, Quanbi Zhao¹, Meiling Zhu¹, Haiying Zhu², Hao Wu³, Tuofu Zhu², Yiming Shao¹

¹ Division of Virology and Immunology, National Center for AIDS/STD Control and Prevention, China CDC, Beijing, PR China

² Department of Microbiology, University of Washington, Seattle, USA

³ Center for Infectious Diseases, Beijing You-An Hospital, Capital Medical University, Beijing, China

12. MAVS-mediated apoptosis is negatively regulated by X protein of Borna disease virus

Yujun Li^{1,2}, Wuqi Song^{1,2}, Jing Wu¹, Qingmeng Zhang¹, Aimei Li¹, Wenping Kao¹, Junming He¹, Yunlong Hu¹, Aixia Zhai¹, Jun Qian¹, Fengmin Zhang^{1,2}

¹ The Heilongjiang Key Laboratory of Immunity and Infection, Pathogenic Biology, Department of Microbiology, Harbin Medical University, Harbin, Heilongjiang, China

² Key Laboratory of Bio-Pharmaceutical, Harbin Medical University, Ministry of Education, Harbin, Heilongjiang, China

13. Regulation of miR-155 in the Homeostasis between Persistent Infection with Borna Disease Virus and Host Innate Immunity

Aixia Zhai¹, Jun Qian¹, Wenping Kao¹, Aimei Li¹, Yujun Li^{1,2}, Qingmeng Zhang¹, Wuqi Song^{1,2}, Yingmei Fu¹, Jing Wu¹, Xiaobei Chen¹, Hui Li¹, Zhaohua Zhong¹, Hong Ling¹, Fengmin Zhang^{1,2}

¹ Department of microbiology, Harbin Medical University; Key Laboratory for Immunity and infection, Pathogenic biology, Heilongjiang Province, China

² Bio-pharmaceutical Key Laboratory, Harbin Medical University, Ministry of Education, China

14. Anti-BDV N protein antibody inhibits Borna disease virus replication in the chronic fatigue syndrome patient and persistently infected oligodendrocytes

Yang Chen¹, Jun Qian¹, Qingmeng Zhang¹, Yujun Li^{1,2}, Aixia Zhai¹, Wuqi Song¹, Xiaobei Chen², Jizi Zhao^{1,2}, Yunlong Hu^{1,2}, Junming He^{1,2}, Fengmin Zhang^{1,2}

¹ Department of microbiology, Harbin Medical University; Key Laboratory for Immunity and infection, Pathogenic biology, Heilongjiang Province, China

² Bio-pharmaceutical Key Laboratory, Harbin Medical University, Ministry of Education, China

15. Detection of human bocavirus 1-4 from nasopharyngeal swab samples collected from patients with respiratory tract infections

Naoko Koseki¹, Shinobu Teramoto¹, Miki Kaiho¹, Rika Endo (Gomi)², Tadashi Ariga¹, and Nobuhisa Ishiguro¹

¹Department of Pediatrics, ²Department of Microbiology, Hokkaido University Graduate School of Medicine, Sapporo, Japan

16. Molecular characterization of human bocavirus isolated from children with acute gastroenteritis in Japan and Thailand

Pattara Khamrin¹, Niwat Maneekarn¹, Aksara Thongprachum², Dinh Nguyen Tran², Satoshi Hayakawa³, Shoko Okitsu³, Hiroshi Ushijima³

¹ Department of Microbiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, ² Department of Developmental Medical Sciences, Institute of International Health, Graduate School of Medicine, the University of Tokyo, Tokyo, Japan, ³ Division of Microbiology, Department of Pathology and Microbiology, Nihon University School of Medicine, Tokyo, Japan

15:36 ~ 16:00 Coffee break

16:00 - 17:36 Session 3: Flavivirus

Chairpersons: Kazuyoshi Ikuta, Zishu Pan

17. Etiological Study of a Local Dengue Fever Outbreak and Molecular Characterization of the Dengue Virus Isolated in Shenzhen

Yang F¹, Ma HW¹, Guo GZ², Chen JQ¹, Ma HW¹, Liu T¹, Huang DN¹, Yao CH³, Zhang L³, Zhang RL¹

¹ Shenzhen Centre for Disease Control and Prevention, China ² Department of Pathogenic Organism, Fourth Military Medical University, Xian, China, ³ Laboratory of Cell and Molecular Biology, Palmer Center for Chiropractic Research – Florida campus, Palmer College of Chiropractic Florida, USA

18 The Study of Molecular Epidemiological of an local Dengue Fever Outbreak in Shenzhen for the first time

YANG Fan, ZHANG Renli, CHEN Simin, XIONG Ying, LIU Tao, HUANG Dana, WU Weihua, LI Yue

Shenzhen Center for Disease Prevention and Control, Shenzhen, China

19. Inhibitory Effect of Glutathione on Oxidative Liver Injury Induced by Dengue Virus Serotype 2 Infections in Mice

Juan Wang, Yanlei Chen, Na Gao, Yisong Wang, Yanping Tian, Jiangman Wu, Junping Zhu, Dongying Fan, Jing An

Department of Microbiology, School of Basic Medical Sciences, Capital Medical University, Beijing, China

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20. Identification of a novel inhibitor against dengue virus NS2B/NS3 protease by a structure-based study
Takeshi Kurosu¹, Sabar Pambudi¹, Norihito Kawashita^{1,2}, Promsin Masrinoul¹, Kriengsak Limkittikul³, Teruo Yasunaga¹, Tatsuya Takagi^{1,2}, Kazuyoshi Ikuta¹
¹ *Research Institute for Microbial Diseases, Osaka University, Osaka, Japan,* ² *Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan,* ³ *Department of Tropical Pediatrics, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand*
21. Suppressive Effects on the Immune Response and Protective Immunity to a JEV DNA Vaccine by Co-administration of a GM-CSF-Expressing Plasmid in Mice
Hui Chen, Na Gao, Dongying Fan, Jiangman Wu, Junping Zhu, Jieqiong Li, Juan Wang, Yanlei Chen, Jing An
Department of Microbiology, School of Basic Medical Sciences, Capital Medical University, Beijing, China
22. Chimeric classical swine fever (CSF)-Japanese encephalitis (JE) viral particles as a non-transmissible bivalent marker vaccine candidate against CSF and JE infections
Zishu Pan¹, Zhenhua Yang¹, Rui Wu¹, Ruangang Pan, Xiufen Zou²
¹ *State Key Laboratory of Virology, College of Life Sciences, Wuhan University,* ² *School of Mathematics and Statistics, Wuhan University, Wuhan, China*
23. Molecular diagnosis and analysis of imported chikungunya virus strains, Japan, 2006-2011.
Chang-Kweng Lim, Meng Ling Moi, Akira Kotaki, Masayuki Saijo, Ichiro Kurane and Tomohiko Takasaki
Department of Virology I, National Institute of Infectious Diseases, Tokyo, Japan
24. Rapid, Simple and Sensitive Detection of Q fever by Loop-Mediated Isothermal Amplification of the htpAB Gene

Lijuan Zhang¹, Lei Pan¹, Desheng Fan², Xiuchun Zhang³, Hong Liu⁴, Qunying Lu⁵, Qiyi Xu², Weihong Li³, Yonglin Shi⁴, Liping Jiang⁵, Yonggen Zhang⁴, Qiang Yu¹, Lina Tian¹, Jianguo Xu¹

¹Dept. of Rickettsiology, China ICDC, Beijing, China, ²YiLi Prefecture CDC, YiLi, China; ³Beijing CDC, Beijing, China, ⁴Anhui provincial CDC, Hefei China, ⁵Zhejiang CDC, Hangzhou, China

18:30 - 20:30 **Welcome party**
Hokkaido University Faculty House Restaurant “En-re-i so”

June 13 (Wed) 2012

8:30 - 10:06 **Session 4: Paramyxovirus and reovirus**
Chairpersons: Nobumichi Kobayashi, Fengmin Zhang

25. Increase of Matrix Metalloproteinase-10 in human nasal epithelial cells during respiratory syncytial virus infection

Satoshi Hirakawa, Takashi Kojima, Kazuhumi Obata, Kazuaki Nomura, Tomoyuki Masaki, Akira Takasawa, Tetsuo Himi, Norihito Sawada, Hiroyuki Tsutsumi
Departments of ¹Pediatrics, ²Pathology, ³Otolaryngology, and ⁴Microbiology, Sapporo Medical University, School of Medicine, Sapporo, Japan

26. IPS-1-dependent innate immune response is indispensable for limiting the SARS-CoV propagation in airway epithelial cell

Tomoki Yoshikawa^{1,2}, Shuetsu Fukushi^{1,2}, Clarence J. Peters^{1,3,4}, and Chien-Te K Tseng^{1,4}

¹Departments of Microbiology and Immunology, ³Pathology, and ⁴Center for Biodefense and Emerging Infectious Disease, University of Texas Medical Branch, Galveston, Texas, ²Department of Virology I, National Institute of Infectious Diseases, Tokyo, Japan

27. Study on M gene based measles virus detection method by Real-Time PCR
Zhuo Fei

Shenzhen Luohu center for disease control and prevention, Shenzhen, China

28. Study on the characteristic of the current measles wild-type strains after continuous passage

Fu Yan, Xu Chang-ping, Feng Yan, Zhong Su-ling, Lu Yi-yu

Zhejiang Provincial Center for Disease Control and Prevention, China

29. Comparison of neutralization capacity of Measles virus vaccine strain and epidemic strains to different types of human serum

Feng Yan, Lu Yi-yu, Xu Chang-ping, Shi Wen, Jiang Xiao-hui, Li Zhen.

Zhejiang Provincial Center for Disease Control and Prevention, China

30. Investigation for rotavirus and adenovirus in stool specimens from hospitalized children with diarrhea during 2010-2011 in Beijing, China

Liu Li-Ying, Zhang You, Qian Yuan, Jia Li-Ping, Deng Jie, Dong Hui-Jin

Laboratory of Virology, Capital Institute of Pediatrics, Beijing, China

31. Whole genomic analysis of a rare human G1P[9] rotavirus strain

Souvik Ghosh¹, Tsuzumi Shintani¹, Koki Taniguchi², Nobumichi Kobayashi¹

¹ *Department of Hygiene, Sapporo Medical University School of Medicine, Sapporo,*

Japan. ² *Department of Virology and Parasitology, School of Medicine, Fujita Health University, Toyoake, Japan*

32. Full Genome Analysis of Rotavirus P[23] Collected from Piglets with Diarrhea in Thailand, 2006-2008

Shoko Okitsu^{1,2}, Pattara Khamrin³, Aksara Thongprachum², Masashi Mizuguchi², Satoshi Hayakawa¹, Niwat Maneekarn³, Hiroshi Ushijima¹

¹ *Division of Microbiology, Department of Microbiology and Immunology, Nihon*

University School of Medicine, Tokyo, Japan, ² *Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan,*

³ *Department of Microbiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand*

10:06~ 10:20 Coffee break

10:20 - 11:56 Session 5: Bunyavirus, filovirus and hepatitis
Chairpersons: Kumiko Yoshimatsu, Zhaohua Zhong, Jing An

33. Isolation and characterization of hantaviruses from wild rodents and epidemiology of hemorrhagic fever with renal syndrome in Russia

Hiroaki Kariwa¹, Takahiro Seto¹, Keisuke Yoshikawa¹, Evgeniy A. Tkachenko², Vyacheslav G. Morozov³, Leonid I. Ivanov⁴, Raisa Slonova⁵, Tatyana A. Zakharycheva⁶, Yoichi Tanikawa¹, Takahiro Sanada¹, Saasa Ngonda¹, Ichiro Nakamura⁷, Kumiko Yoshimatsu⁸, Jiro Arikawa⁸, Kentaro Yoshii¹, Ikuo Takashima¹

¹ Graduate School of Veterinary Medicine, Hokkaido University, Sapporo, Japan, ² Chumakov Institute of Polyomyelitis and Viral Encephalitis, Moscow, Russia, ³ Medial Company "Hepatolog" Incorporated, Samara, Russia, ⁴ Plague Control Station of Khabarovsk, Russia, ⁵ Research Institute of Epidemiology and Microbiology, Siberian Branch of Russian Academy of Medical Sciences, Vladivostok, Russia, ⁶ Far Eastern State Medical University, Khabarovsk, Russia, ⁷ Research Center for Zoonosis Control, Hokkaido University, Sapporo, Japan, ⁸ Graduate School of Medicine, Hokkaido University, Sapporo, Japan

34. Development of immunochromatographic test strips for the detection of HFRS and HPS hantavirus antibody in the human and rodent serum

Takako Amada¹, Kumiko Yoshimatsu¹, Shumpei P. Yasuda¹, Takaaki Koma¹, Kenta Shimizu¹, Rie Isozumi¹, Nobuhito Hayashimoto², Akira Takakura², Jiro Arikawa¹

¹Dept. of Microbiology, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ²Central Institute for Experimental Animals, Kawasaki, Japan

35. Persistence of Seoul virus in natural host (*Rattus norvegicus*)

Kumiko Yoshimatsu¹, Shumpei P. Yasuda¹, Kenta Shimizu¹, Takaaki Koma¹, Takako Amada¹, Tetsu Yamashiro², Futoshi Hasebe³, Nguyen Thuy Hoa⁴, Le Thi Quynh Mai⁴, Jiro Arikawa¹

¹ *Department of Microbiology, Graduate School of Medicine, Hokkaido University, Japan,* ² *Center for Infectious Disease Research in Asia and Africa, Nagasaki University, Japan,* ³ *Center of International Collaborative Research, Nagasaki University, Japan,* ⁴ *National Institute of Hygiene and Epidemiology, Vietnam*

36. Analysis of humoral immune response among cynomolgus monkeys naturally infected with Reston ebolavirus during 1996 outbreak in the Philippines

Satoshi Taniguchi^{1,2}, Yusuke Sayama¹, Noriyo Nagata¹, Tetsuro Ikegami³, Mary E. Miranda⁴, Shumpei Watanabe², Itoe Iizuka¹, Shuetsu Fukushi¹, Tetsuya Mizutani¹, Yoshiyuki Ishii², Masayuki Saijo¹, Hiroomi Akashi², Yasuhiro Yoshikawa², Shigeru Kyuwa², and Shigeru Morikawa¹

¹ *National Institute of Infectious Diseases, Japan,* ² *University of Tokyo, Japan,* ³ *The University of Texas Medical Branch, Galveston, Texas, USA,* ⁴ *Veterinary Public Health Specialist, Aralia, Silang, Philippines*

37. Analysis of filovirus glycoprotein-induced steric shielding effect against host proteins

Osamu Noyori, Keita Matsuno, Masahiro Kajihara, Ayato Takada
Division of Global Epidemiology, Research Center for Zoonosis Control, Hokkaido University, Sapporo, Japan

38. Application of Allele-specific RNAi in Hepatitis B virus lamivudine resistance

Xu Teng, Di Li, Hong-Xi Gu*
Department of Microbiology, Harbin Medical University; Heilongjiang Provincial Key Laboratory for Infection and Immunity; Key Lab of Heilongjiang Province Education Bureau for Etiology, China

39. Antigenicity and infectivity of rat hepatitis E viruses

Tian-Cheng Li¹, Kumiko Yoshimatsu⁴, Shumpei P. Yasuda⁵, Jiro Arikawa⁴, Michiyo Kataoka², Yasushi Ami³, Yuriko Suzuki³, Koji Ishii¹, Naokazu Takeda⁶ and Takaji Wakita¹
¹ *Department of Virology II,* ² *Department of pathology,* ³ *Division of Experimental Animals Research, National Institute of infectious Diseases,* ⁴ *Department of Microbiology, Graduate School of Medicine, Hokkaido University,* ⁵ *The Tokyo*

Metropolitan Institute of Medical Science. ⁶ *Research Institute for Microbial Diseases, Osaka University*

40. Epidemiology of rat hepatitis E virus infection in human and rodents in Vietnam

Kenta Shimizu¹, Tian-Cheng Li², Shumpei P Yasuda¹, Kumiko Yoshimatsu¹, Takaaki Koma¹, Futoshi Hasebe³, Tetsu Yamashiro⁴, Nguyen Thuy Hoa⁵, Le Thi Quynh Mai⁵, Koya Ariyoshi⁶, Jiro Arikawa¹

¹*Department of Microbiology, Hokkaido University Graduate School of Medicine, Hokkaido University, Japan*

²*Department of Virology II, National Institute of Infectious Diseases, Japan*

³*Center for Infectious Disease Research in Asia and Africa, Nagasaki University, Japan*

⁴*Center of International Collaborative Research, Nagasaki University, Japan*

⁵*National Institute of Hygiene and Epidemiology, Vietnam*

⁶*Department of Clinical Medicine, Institute of Tropical Medicine, Nagasaki University, Japan*

11:56 ~ 13:30 Lunch

13:30 - 15:06 Session 6: Pox, herpes and papillomavirus

Chairpersons: Masayuki Saijo, Hong Ling

41. The Research of Investigation and controlling to Ecthyma contagiosa in Guizhou Province of China

Yang Mao-sheng, Xu Jin-e, Yu Bo, Shi Kai-zhi, Wu Wei-hen, Yang Li

Institute of Animal Science and Veterinary Medicine, Guiyang, China

42. Development of virus-Specific CD4+ and CD8+ Regulatory T Cells induced by Human Herpesvirus-6 Virus Infection

Fang Wang², Jing Chi¹, Guangyong Peng³, Jinfeng Wang¹, Lingyun Li⁴, Feng Zhou¹, Bin Gu¹, Kun Yao¹

¹ *Department of Microbiology and Immunology, Nanjing Medical University, Nanjing, Jiangsu Province, China,* ² *Department of Laboratory Medicine, the First Affiliated Hospital of Nanjing Medical University, Jiangsu Province, China,* ³ *Division of Infectious Diseases, Allergy & Immunology and Department of Internal Medicine, Saint*

Louis University, St. Louis, Missouri, USA, ⁴ Department of Developmental Genetics, Nanjing Medical University, Jiangsu Province, China

43. The role of MAPK in CD4(+) T cells toll-like receptor 9-mediated signaling following HHV-6 infection

Yao Kun

Department of Microbiology and Immunology, Nanjing Medical University, Nanjing, China

44. Analysis and Mapping of a 3' Coterminally Transcribed Transcription unit derived from Human Cytomegalovirus Open Reading Frames UL30 through UL32

Yanping Ma, Ning Wang, Mali Li, Shuang Gao, Lin Wang, Bo Zheng, Ying Qi and Qiang Ruan

Virus Laboratory, the Affiliated Shengjing Hospital, China Medical University, Shenyang, China

45. Drug-resistant herpes simplex virus type 1 infections in children

Masayuki Saijo and Satuki Kakiuchi

Department of Virology 1, National Institute of Infectious Diseases, Tokyo, Japan

46. Administration of Acyclovir for Acute Lymphadenopathy Reduces Duration of Hospitalization and Febrile Period

Yugo Ashino, Osamu Usami, Hiroki, Saitoh, and Toshio Hattori

1Department of Emerging Infectious Diseases, Tohoku University School of Medicine, Sendai, Japan

47. Tobacco exposure results in increased DNA damage and mutation rates in cervical cells maintaining oncogenic episomal human papillomavirus 16 genomes

Lanlan Wei^{1,2}, Hongxi Gu¹, Yan Wang¹, Anastacia M. Maldonado², Michelle A. Ozbun²

¹ *Department of Microbiology, Harbin Medical University, Harbin, Heilongjiang China,*

² *Department of Molecular Genetics and Microbiology, The University of New Mexico School of Medicine, Albuquerque, NM USA*

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48. Variations of human papillomavirus type 58 E6, E7 and L1 genes in strains from women with cervical lesions in Liaoning province, China

Jian-hua Liu, Gui-li Wang, Wei-qiang Zhou, Chao Liu, Lian-xia Yang, Qiang Ruan and Zheng-rong Sun

Virus Laboratory, The Affiliated Shengjing Hospital, China Medical University. China

15:06~ 15:20 Coffee break

15:20 - 16:32 Session 7: Picornavirus

Chairpersons: Hiroshi Ushijima, Maosheng Yang, Lijuan Zhang

49. Novel Picornaviruses in Children and Adults with Diarrhea, Thailand

Hiroshi Ushijima¹, Pattara Khamrin², Aksara Thongprachum³, Dinh Nguyen Tran³, Satoshi Hayakawa¹, Shoko Okitsu¹, Niwat Maneekarn²

¹ Division of Microbiology, Department of Pathology and Microbiology, Nihon University School of Medicine, Tokyo, Japan, ² Department of Microbiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, ³ Department of Developmental Medical Sciences, Institute of International Health, Graduate School of Medicine, the University of Tokyo, Tokyo, Japan

50. In vivo bioluminescence imaging of enterovirus 71 infection by monitoring the 3C protease activity

Zhi-Wei Guo¹, Shuo Wu¹, Ye-Lu Han¹, Ying Qin¹, Yang Chen¹, Tian-Ying Wang¹, Yan Wang¹, Le-Xun Lin¹, Lei Tong¹, Feng-min Zhang¹, Wen-Ran Zhao², Zhao-Hua Zhong¹

¹ Department of Microbiology, ² Department of Cell Biology, Harbin Medical University, Harbin, China

51. Blood selenium of low-level associated with development of hand- foot-mouth disease

Zhang Dongxiao¹, Yang Fan¹, Wang Bing¹, Liu Tao¹, Zhang Renli¹

Shenzhen Centre for Diseases Control and Prevention, Shenzhen, China

52. Characterization of Ectropis obliqua virus 3C-like Protease Processing Activities

Shan Ye, Hongjie Xia, Congyi Zheng, Jiamin Zhang, Xi Zhou and Yuanyang Hu
*State Key Laboratory of Virology, College of Life Sciences, Wuhan University, Wuhan,
Hubei, China*

53. Multiple suppression of RNA silencing by B2 protein from Wuhan Nodavirus in
Drosophila Cells

Nan Qi, Zhaowei Wang, Congyi Zheng, Jiamin Zhang, Xi Zhou and Yuanyang Hu
*State Key Laboratory of Virology, College of Life Sciences, Wuhan University, Wuhan,
Hubei, China*

54. A Single Amino Acid at the Hemagglutinin Cleavage Site Contributes to the
Pathogenicity and Neurovirulence of H5N1 Influenza Virus in Mice

Yi Zhang¹, Yipeng Sun¹, Honglei Sun¹, Juan Pu¹, Xishan Lu², Yi Shi², Jing Li³, Qingyu
Zhu³, George F. Gao², Hanchun Yang¹, and Jinhua Liu¹

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16:32 - 16:45 Closing ceremony