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)

Scientific Board Members
Japan: Hiroshi Ushijima, Kazuyoshi Ikuta, Toshio Hattori, Kimiyasu Shiraki, Yasuo Suzuki, Nobumichi Kobayashi, Jiro Arikwa

China: Ting Zhang, Zhenghong Yuan, Yuanyang Hu, Yuan Qian, Xiaoyan Zhang, Fengmin Zhang

Organizing Committee
Chairperson:
Prof. Jiro Arikawa (Japan), Prof. Nobumichi Kobayashi (co-chairperson, Japan)
Prof. Fengmin Zhang (China)

Members:
Japan: Kumiko Yoshimatsu, Kenta Shimizu, Motoko Takashino,
China: Zhaohua Zhong, Xu Teng, Yong Fang

Sponsors
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 Pharmaceutics 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 unable 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 unprecendented 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: Ōkurage 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 Ōkurage 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 αβ TCR using Vδ1 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
   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, mumefural
   Nongluk Sripilaijaroen¹,², Akio Kadowaki³, Yuriko Onishi³, Nobuki Gato³, Makoto
6. Preparation of HuMAb against influenza virus and the evaluation of effectiveness and safety
Mayo Yasugi\textsuperscript{1,4}, Yuta Kanai\textsuperscript{1}, Ritsuko Kubota-Koketsu\textsuperscript{2,4}, Norihito Kawashita\textsuperscript{1}, Naphatsawan Boonsathorn\textsuperscript{3}, Yoshinobu Okuno\textsuperscript{2}, Takaaki Nakaya\textsuperscript{1}, and Kazuyoshi Ikuta\textsuperscript{1,4}

\textsuperscript{1}Institute for Microbial Diseases, Osaka University; \textsuperscript{2}Kanonji Institute, The Research Foundation for Microbial Diseases of Osaka University; \textsuperscript{3}Ministry of Public Health, Thailand; \textsuperscript{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 Ainai\textsuperscript{1,2}, Shin-ichi Tamura\textsuperscript{2}, Tadaki Suzuki\textsuperscript{2}, Elly van Riet\textsuperscript{1}, Ryo Ito\textsuperscript{2}, Takato Odagiri\textsuperscript{1}, Masato Tashiro\textsuperscript{1}, Takeshi Kurata\textsuperscript{2}, and Hideki Hasegawa\textsuperscript{2}

\textsuperscript{1}Influenza Virus Research Center and \textsuperscript{2}Department of Pathology, National Institute of Infectious Diseases, Tokyo, Japan

12:36 ~ 14:00 Lunch
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
¹Division of Virology and Immunology, National Center for AIDS/STD Control and Prevention, China CDC, Beijing, PR China
²Department of Microbiology, University of Washington, Seattle, USA
³Center 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 Li², Wuqi Song¹², Jing Wu¹, Qingmeng Zhang¹, Aimei Li¹, Wenping Kao¹, Junming He¹, Yunlong Hu¹, Aixia Zhai¹, Jun Qian¹, Fengmin Zhang¹²
¹The Heilongjiang Key Laboratory of Immunity and Infection, Pathogenic Biology, Department of Microbiology, Harbin Medical University, Harbin, Heilongjiang, China
²Key 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 Li¹,², Qingmeng Zhang¹, Wuqi Song¹,², Yingmei Fu¹, Jing Wu¹, Xiaobei Chen¹, Hui Li¹, Zhaohua Zhong¹, Hong Ling¹, Fengmin Zhang¹,²

¹Department of microbiology, Harbin Medical University; Key Laboratory for Immunity and infection, Pathogenic biology, Heilongjiang Province, China
²Bio-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 Li¹,², Aixia Zhai¹, Wuqi Song¹, Xiaobei Chen², Jizi Zhao¹,², Yunlong Hu¹,², Junming He¹,², Fengmin Zhang¹,²

¹Department of microbiology, Harbin Medical University; Key Laboratory for Immunity and infection, Pathogenic biology, Heilongjiang Province, China
²Bio-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
20. Identification of a novel inhibitor against dengue virus NS2B/NS3 protease by a structure-based study
Takeshi Kurosu¹, Sabar Pambudi¹, Norihito Kawashita¹², Promsin Masrinou¹, Kriengsak Limkittikul³, Teruo Yasunaga¹, Tatsuya Takagi¹², Kazuyoshi Ikuta¹
¹Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ²Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan, ³Department of Tropical Pediatrics, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

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
¹State Key Laboratory of Virology, College of Life Sciences, Wuhan University, ²School of Mathematics and Statistics, Wuhan University, Wuhan, China

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 Yoshikawa¹, ², Shuetsu Fukushima¹, ², Clarence J. Peters¹, ³, ⁴, and Chien-Te K Tseng¹, 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
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  
¹Department of Hygiene, Sapporo Medical University School of Medicine, Sapporo, Japan. ²Department of Virology and Parasitology, School of Medicine, Fujita Health University, Toyoake, Japan

Shoko Okitsu¹, Pattara Khamrin³, Aksara Thongprachum², Masashi Mizuguchi², Satoshi Hayakawa¹, Niwat Maneekarn³, Hiroshi Ushijima¹  
¹Division of Microbiology, Department of Microbiology and Immunology, Nihon University School of Medicine, Tokyo, Japan, ²Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ³Department 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 Encephalitidis, 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
36. Analysis of humoral immune response among cynomolgus monkeys naturally infected with Reston ebolavirus during 1996 outbreak in the Philippines

Satoshi Taniguchi¹,², 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 Suzaki³, 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. \textsuperscript{6} Research Institute for Microbial Diseases, Osaka University

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

Kenta Shimizu\textsuperscript{1}, Tian-Cheng Li\textsuperscript{2}, Shumpei P Yasuda\textsuperscript{1}, Kumiko Yoshimatsu\textsuperscript{1}, Takaaki Koma\textsuperscript{1}, Futoshi Hasebe\textsuperscript{3}, Tetsu Yamashiro\textsuperscript{4}, Nguyen Thuy Hoa\textsuperscript{5}, Le Thi Quynh Mai\textsuperscript{5}, Koya Ariyoshi\textsuperscript{6}, Jiro Arikawa\textsuperscript{1}
\textsuperscript{1}Department of Microbiology, Hokkaido University Graduate School of Medicine, Hokkaido University, Japan
\textsuperscript{2}Department of Virology II, National Institute of Infectious Diseases, Japan
\textsuperscript{3}Center for Infectious Disease Research in Asia and Africa, Nagasaki University, Japan
\textsuperscript{4}Center of International Collaborative Research, Nagasaki University, Japan
\textsuperscript{5}National Institute of Hygiene and Epidemiology, Vietnam
\textsuperscript{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 papilomavirus
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 Wang\textsuperscript{2}, Jing Chi\textsuperscript{1}, Guangyong Peng\textsuperscript{3}, Jinfeng Wang\textsuperscript{1}, Lingyun Li\textsuperscript{4}, Feng Zhou\textsuperscript{1}, Bin Gu\textsuperscript{1}, Kun Yao\textsuperscript{1}
\textsuperscript{1}Department of Microbiology and Immunology, Nanjing Medical University, Nanjing, Jiangsu Province, China, \textsuperscript{2}Department of Laboratory Medicine, the First Affiliated Hospital of Nanjing Medical University, Jiangsu Province, China, \textsuperscript{3}Division of Infectious Diseases, Allergy & Immunology and Department of Internal Medicine, Saint
43. The role of MAPK in CD4(+) T cells toll-like receptor 9-mediated signaling following HHV-6 infection
Yao Kun
Department ofMicrobiology and Immunology, Nanjing Medical University, Nanjing, China

44. Analysis and Mapping of a 3′Coterminal 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 Wei1,2, Hongxi Gu1, Yan Wang1, Anastacia M. Maldonado2, Michelle A. Ozbun2
1Department of Microbiology, Harbin Medical University, Harbin, Heilongjiang China,
2Department of Molecular Genetics and Microbiology, The University of New Mexico School of Medicine, Albuquerque, NM USA
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
¹Division of Microbiology, Department of Pathology and Microbiology, Nihon University School of Medicine, Tokyo, Japan, ²Department of Microbiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, ³Department 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
¹Department of Microbiology, ²Department of Cell Biology, Harbin Medical University, Harbin, China

51. Blood selenium of low-level associated with development of hand- foot-mouth disease
Zhang Dongxiao ¹, 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
¹ Key Laboratory of Animal Epidemiology and Zoonosis, Ministry of Agriculture, College of Veterinary Medicine, China Agricultural University, Beijing, 100193, China, ² Chinese Academy of Sciences Key Laboratory of Pathogenic Microbiology and Immunology (CASPMI), Institute of Microbiology, Chinese Academy of Sciences, Beijing, China, ³ State Key Laboratory of Pathogens and Bio-security, Academy of Military Medical Sciences, Beijing, China

16:32 - 16:45 Closing ceremony