

## 2. Department of Virology II

- 1) Matsuhiro T, Kaji C, Murakami S, Maebashi K, Oka T, Takeda N, Katayama K. Evaluation of four antiseptics using a novel murine norovirus. *Exp Anim* 61(1): 35–40, 2012.
- 2) Oka T, Takagi H, Tohya Y, Murakami K, Takeda N, Wakita T, Katayama K. Bioluminescence technologies to detect calicivirus protease activity in cell-free system and in infected cells. *Antiviral Research* 90(1): 9–16, 2011.
- 3) Oka T, Mori K, Iritani N, Harada S, Ueki Y, Iizuka S, Mise K, Murakami K, Wakita T, Katayama K. Human sapovirus classification based on complete capsid nucleotide sequences. *Arch Virol* 157(2): 349–52, 2012.
- 4) Kitaura K, Fujii Y, Hayasaka D, Matsutani T, Shirai K, Nagata N, Lim CK, Suzuki S, Takasaki T, Suzuki R, Kurane I. High clonality of virus-specific T lymphocytes defined by T cell receptor usage in the brains of mice infected with West Nile virus. *J Immunol* 187: 3919–30, 2011.
- 5) Matsutani T, Fujii Y, Kitaura K, Suzuki S, Tsuruta Y, Takasaki T, Ogasawara K, Nishimoto N, Kurane I, Suzuki R. Increased positive selection pressure within the complementarity determining regions of the T-cell receptor beta gene in New World monkeys. *Am J Primatol* 73: 1082–1092, 2011.
- 6) Fujii Y, Hayasaka D, Kitaura K, Takasaki T, Suzuki R, Kurane I. T cell clones expressing different T cell receptors accumulate in the brains of dying and surviving mice following peripheral infection with Far Eastern strain of tick-borne encephalitis virus. *Viral Immunology* 24:291–302, 2011.
- 7) Someya Y, Shirato H, Hasegawa K, Kumagai T, Takeda N. Assembly of homogeneous norovirus-like particles accomplished by amino acid substitution. *J Gen Virol* 92(10): 2320–2323, 2012.
- 8) Someya Y. From head to toe of the norovirus 3C-like protease. *BioMol Concepts* 3(1): 41–56, 2012.
- 9) Shirato H: Norovirus recognition sites on histo-blood group antigens. *Frontiers in Virology* 3: 177, 2012.
- 10) Sakaidani Y, Nomura T, Matsuura A, Ito M, Suzuki E, Murakami K, Nadano D, Matsuda T, Furukawa K, Okajima T: O-Linked-N-acetylglucosamine on extracellular protein domains mediates epithelial cell-matrix interactions. *Nature Communications*, 2: 583, 2012.
- 11) Hansman GS, Shahzad-Ul-Hussan S, McLellan JS, Chuang GY, Georgiev I, Shimoike T, Katayama K, Bewley CA, Kwong PD. Structural basis for norovirus inhibition and fucose mimicry by citrate. *J Virol* 86: 284–92, 2012.
- 12) Hansman GS, Taylor DW, McLellan JS, Smith TJ, Georgiev I, Tame JR, Park SY, Yamazaki M, Gondaira F, Miki M, Katayama K, Murata K, Kwong, PD. Structural basis for broad detection of genogroup II noroviruses by a monoclonal antibody that binds to a site occluded in the viral particle. *J Virol* 86(7): 3635–46, 2012.
- 13) De W, Huanying Z, Hui L, Corina M, Xue G, Leng L, Hanri Z, Ling F, Yanling M, Huiqiong Z, Huan Z, Jing K, Caiyun L, Yoshida H, Changwen K. Phylogenetic and molecular characterization of Coxsackievirus A24 variant isolates from a 2010 acute hemorrhagic conjunctivitis outbreak in Guangdong, China. *Virology J* 9: 41, 2012.
- 14) Fujimoto T, Iizuka S, Enomoto M, Abe K, Yamashita K, Hanaoka N, Okabe N, Yoshida H, Yasui Y, Kobayashi M, Fujii Y, Tanaka H, Yamamoto M, Shimizu H: Hand, foot, and mouth disease caused by coxsackievirus A6, Japan, 2011. *Emerg Infect Dis* 18: 337–339, 2012.
- 15) Kataoka C, Kaname Y, Taguwa S, Abe T, Fukuhara T, Tani H, Moriishi K, Matsuura Y. Baculovirus GP64-mediated entry into mammalian cells. *J Virol* 86: 2610–20, 2012.
- 16) Nishimura Y, Shimizu H: Cellular receptors for human enterovirus species A. *Front Microbiol* 3: 105, 2012.

- 17) Sasaki J, Ishikawa K, Arita M, Taniguchi K. ACBD3-mediated recruitment of PI4KB to picornavirus RNA replication sites. *EMBO J* 31: 754–766, 2011.
- 18) Jiang H, Weng L, Zhang N, Arita M, Li R, Chen L, Toyoda T. Biochemical characterization of enterovirus 71 3D RNA polymerase. *Biochim Biophys Acta* 1809: 211–219, 2011
- 19) Arita M, Iwai M, Wakita T, Shimizu H. Development of poliovirus neutralization test with poliovirus pseudovirus for measurement of neutralizing antibody titer in human serum. *Clin Vaccine Immunol* 18: 1889–1894, 2011.
- 20) Arita M, Masujima S, Wakita T, Shimizu H. Particle Agglutination Method for Poliovirus Identification. *J Vis Exp* 50, doi: 10.3791/2824, 2011.
- 21) Konno M, Yoshioka M, Sugie M, Maguchi T, Nakamura T, Kizawa M, Umegaki Y, Yasutake H, Ishikawa Y, Hanaoka N, Okabe N, Taniguchi T, Shimizu H, Fujimoto T: Fourteen years' surveillance of coxsackievirus group A in Kyoto 1996–2009 using mouse, RD-18S, and Vero Cells. *Jpn J Infect Dis* 64: 167–168, 2011.
- 22) Iwai M, Horimoto E, Obara M, Obuchi M, Kurata T, Kawagoshi K, Nakamura S, Shimizu H, Yoshida H, Takizawa T: Endemic transmission of echovirus 30 in Toyama, Japan in 2010 is verified by environmental surveillance. *Jpn J Infect Dis* 64: 165–167, 2011.
- 23) Murayama A, Kato T, Akazawa D, Sugiyama N, Date T, Masaki T, Nakamoto S, Tanaka Y, Mizokami M, Yokosuka O, Nomoto A, Wakita T: Production of infectious chimeric hepatitis C virus genotype 2b harboring minimal regions of JFH-1. *J Virol* 86(4): 2143–2152, 2012.
- 24) Saeed M, Suzuki R, Watanabe N, Masaki T, Tomonaga M, Muhammad A, Kato T, Matsuura Y, Watanabe H, Wakita T, Suzuki T. Role of the endoplasmic reticulum-associated degradation (ERAD) pathway in degradation of hepatitis C virus envelope proteins and production of virus particles. *J Biol Chem* 286: 37264–37273, 2011.
- 25) Saeed M, Shiina M, Date T, Akazawa D, Watanabe N, Murayama A, Suzuki T, Watanabe H, Hiraga N, Imamura M, Chayama K, Choi Y, Krawczynski K, Liang TJ, Wakita T, Kato T. In vivo adaptation of hepatitis C virus in chimpanzees for efficient virus production and evasion of apoptosis. *Hepatology* 54: 425–433, 2011.
- 26) Okamoto Y, Masaki T, Murayama A, Munakata T, Nomoto A, Nakamoto S, Yokosuka O, Watanabe H, Wakita T, Kato T. Development of recombinant hepatitis C virus with NS5A from strains of genotypes 1 and 2. *Biochem Biophys Res Commun* 410: 404–409, 2011.
- 27) Tomomi Ando, Hiromi Imamura, Ryosuke Suzuki, Hideki Aizaki, Toshiki Watanabe, Takaji Wakita, Tetsuro Suzuki. Visualization and measurement of ATP levels in living cells replicating hepatitis C virus genome RNA. *PLoS Pathogens* 8(3): e1002561, 2012.
- 28) Morohashi K, Sahara H, Watashi K, Iwabata K, Sunoki T, Kuramochi K, Takakusagi K, Miyashita H, Sato N, Tanabe A, Shimotohno K, Kobayashi S, Sakaguchi K, Sugawara F. Cyclosporin A associated helicase-like protein facilitates the association of hepatitis C virus RNA polymerase with its cellular cyclophilin B. *PLoS One* 6: e18285, 2011.
- 29) Salim MT, Aoyama H, Sugita K, Watashi K, Wakita T, Hamasaki T, Okamoto M, Urata Y, Hashimoto Y, Baba M. Potent and selective inhibition of hepatitis C virus replication by novel phenanthridinone derivatives. *Biochem Biophys Res Commun* 415: 714–719, 2011.
- 30) Winkelmann ER, Widman DG, Suzuki R, Mason PW. Analyses of mutations selected by passaging a chimeric flavivirus identify mutations that alter infectivity and reveal an interaction between the structural proteins and the nonstructural glycoprotein NS1. *Virology* 421: 96–104, 2011.
- 31) Yamamoto M, Aizaki H, Fukasawa M, Teraoka T, Miyamura T, Wakita T, Suzuki T. The structural requirements of virion-associated cholesterol for infectivity, buoyant density and apolipoprotein association of hepatitis C virus. *J Gen Virol* 92: 2082–7, 2011.

- 32) Li TC, Ochiai S, Ishiko H, Wakita T, Miyamura T and Takeda N. A retrospective study on imported hepatitis E in Japan. *Travel Med Infect Dis* 10(2): 80–85, 2012.
- 33) Li TC, Yoshimatsu K, Yasuda SP, Arikawa J, Koma T, Kataoka M, Ami Y, Suzuki Y, Mai LT, Hoa NT, Yamashiro T, Hasebe F, Takeda N, Wakita T. Characterization of self-assembled virus-like particles of rat hepatitis E virus generated by recombinant baculoviruses. *J Gen Virol* 92: 2830–2837, 2011.
- 34) Iwasaki Y, Mori K, Ishii K, Maki N, Iijima S, Yoshida T, Okabayashi S, Katakai Y, Lee YJ, Saito A, Funai H, Kimura N, Ageyama N, Yoshizaki S, Suzuki T, Yasutomi Y, Miyamura T, Kannagi M, Akari H. Long-term persistent GBV-B infection and development of a chronic and progressive hepatitis C-like disease in marmosets. *Front Microbiol* 2: 240, 2011.
- 35) Ishii K, Miyamura T, Kanda T, Tawada A, Sekimoto T, Wu S, Nakamoto S, Arai M, Fujiwara K, Imazeki F, Kiyohara T, Wakita T, Yokosuka O. Possible widespread presence of hepatitis A virus subgenotype IIIA in Japan: recent trend of hepatitis A causing acute liver failure. *Hepatol Res* 42: 248–253, 2012.
- 36) Ishii K, Li TC, Yoshizaki S, Shiota T, Kato T, Takeda N, Wakita T. Cloning of permissive and nonpermissive human hepatoma cell lines for hepatitis E virus infection. *Hepato Inter* 6: 292, 2012.
- 37) Ishii K, Kiyohara T, Yoshizaki S, Wakita T, Shimada T, Nakamura N, Nakashima K, Tada Y, Noda M. Epidemiological and genetic analyses of a diffuse outbreak of hepatitis A in Japan, 2010. *J Clin Virol* 53: 219–224, 2012.
- 38) Yoshida T, Miyasaka T, Azegami Y, Uchiyama Y, Kasahara H, Ueda H, Nagase H, Fujita S, Ishii K, Noda M. Investigation of epidemiology and HAV genomes regarding three hepatitis A infections that occurred in April–May, 2010–Nagano. *Jpn J Infect Dis* 64: 260–261, 2011.
- 39) Li TC, Song S, Yang Q, Ishii K, Takeda N, Wakita T. A cell culture system for hepatitis E virus. *Hepato Inter* 5: 202, 2011.
- 40) Ishii K, Kiyohara T, Yoshizaki S, Shimada T, Nakamura N, Tada Y, Noda M, Wakita T. Epidemiological and genetic analysis of a diffuse outbreak of hepatitis A in Japan, 2010. *Hepato Inter* 5: 204–205, 2011.
- 41) Sugiyama M, Tanaka Y, Wakita T, Nakanishi M, Mizokami M. Genetic Variation of the IL-28B Promoter Affecting Gene Expression. *PLoS One*. 6(10): e26620, Epub Oct 25, 2011.
- 42) Arnaud N, Dabo S, Akazawa D, Fukasawa M, Shinkai-Ouchi F, Hugon J, Wakita T, Meurs EF. Hepatitis C virus reveals a novel early control in acute immune response. *PLoS Pathog*. 7(10): e1002289 2011.
- 43) Kamada K, Shojo I, Deng L, Aoki C, Ratnoglik SL, Wakita T, Hotta H. Generation of a recombinant reporter hepatitis C virus useful for the analyses of virus entry, intra-cellular replication and virion production. *Microbes Infect* 14(1): 69–78, 2012.
- 44) Tamura R, Kanda T, Imazeki F, Wu S, Nakamoto S, Tanaka T, Arai M, Fujiwara K, Saito K, Roger T, Wakita T, Shirasawa H, Yokosuka O. Hepatitis C Virus nonstructural 5A protein inhibits lipopolysaccharide-mediated apoptosis of hepatocytes by decreasing expression of Toll-like receptor 4. *J Infect Dis* 204(5): 793–801, 2011.
- 45) Ikeda M, Kawai Y, Mori K, Yano M, Abe K, Nishimura G, Dansako H, Ariumi Y, Wakita T, Yamamoto K, Kato N. Anti-ulcer agent teprenone inhibits hepatitis C virus replication: potential treatment for hepatitis C. *Liver Int*. 31(6): 871–80, 2011.
- 46) Wakita T, Suzuki T, Evans MJ, Shimotohno K, Chayama K, Matsuura Y, Hijikata M, Moriishi K, Seya T, Enomoto N, Koike K, Kato N, Kanto T, Hotta H. Will there be an HCV meeting in 2020? Summary of the 17th international meeting on hepatitis C virus and related viruses. *Gastroenterology* 141(1): e1–5, 2011.

- 47) Hikosaka K, Noritake H, Kimura W, Sultana N, Sharkar MT, Tagawa Y, Uezato T, Kobayashi Y, Wakita T, Miura N. Expression of human factors CD81, claudin-1, scavenger receptor, and occludin in mouse hepatocytes does not confer susceptibility to HCV entry. *Biomed Res* 32(2): 143–50, 2011.
- 48) Honda M, Takehana K, Sakai A, Tagata Y, Shirasaki T, Nishitani S, Muramatsu T, Yamashita T, Nakamoto Y, Mizukoshi E, Sakai Y, Yamashita T, Nakamura M, Shimakami T, Yi M, Lemon SM, Suzuki T, Wakita T, Kaneko S. Hokuriku Liver Study Group. Malnutrition impairs interferon signaling through mTOR and FoxO pathways in patients with chronic hepatitis C. *Gastroenterology*. 141(1): 128–40, 140.e1–2, 2011.
- 49) Aly HH, Oshiumi H, Shime H, Matsumoto M, Wakita T, Shimotohno K, Seya T. Development of mouse hepatocyte lines permissive for hepatitis C virus (HCV). *PLoS One*. 6(6): e21284, 2011.