

2. Department of Virology II

1. Aoudjehane L, Bisch G, Scatton O, Granier C, Gaston J, Housset C, Roingeard P, Cosset FL, Perdigao F, Balladur P, Wakita T, Calmus Y, Conti F. Infection of Human Liver Myofibroblasts by Hepatitis C Virus: A Direct Mechanism of Liver Fibrosis in Hepatitis C. *PLoS One*. 2015 Jul 27;10(7):e0134141.
2. Arita M. Mechanism of poliovirus resistance to host phosphatidylinositol-4 kinase III beta inhibitor. *ACS Infectious Diseases*, 2: 140-148, 2016
3. Chapellier B, Tange S, Tasaki H, Yoshida K, Zhou Y, Sakon N, Katayama K, Nakanishi A. Examination of a plasmid-based reverse genetics system for human astrovirus. *Microbiol Immunol*. 2015 Oct;59(10):586-96.
4. Chu PS, Ebinuma H, Nakamoto N, Sugiyama K, Usui S, Wakayama Y, Taniki N, Yamaguchi A, Shiba S, Yamagishi Y, Wakita T, Hibi T, Saito H, Kanai T. Genotype-Associated Differential NKG2D Expression on CD56+CD3+ Lymphocytes Predicts Response to Pegylated-Interferon/Ribavirin Therapy in Chronic Hepatitis C. *PLoS One*. 2015 May 12;10(5):e0125664.
5. Hiramoto H, Dansako H, Takeda M, Satoh S, Wakita T, Ikeda M, Kato N. Annexin A1 negatively regulates viral RNA replication of hepatitis C virus. *Acta Med Okayama*. 2015;69(2):71-8. PubMed PMID: 25899628.
6. Ide T, Komoto S, Higo-Moriguchi K, Htun KW, Myint YY, Myat TW, Thant KZ, Thu HM, Win MM, Oo HN, Htut T, Wakuda M, Dennis FE, Haga K, Fujii Y, Katayama K, Rahman S, Nguyen SV, Umeda K, Oguma K, Tsuji T, Taniguchi K. Whole Genomic Analysis of Human G12P[6] and G12P[8] Rotavirus Strains that Have Emerged in Myanmar. *PLoS One*. 2015 May 4;10(5):e0124965.
7. Ishida Y, Yamasaki C, Yanagi A, Yoshizane Y, Fujikawa K, Watashi K, Abe H, Wakita T, Hayes CN, Chayama K, Tateno C. Novel robust in vitro hepatitis B virus infection model using fresh human hepatocytes isolated from humanized mice. *Am J Pathol*: 185. 2015. 1275-1285
8. Ishida Y, Yamasaki C, Yanagi A, Yoshizane Y, Fujikawa K, Watashi K, Abe H, Wakita T, Hayes CN, Chayama K, Tateno C. Novel robust in vitro hepatitis B virus infection model using fresh human hepatocytes isolated from humanized mice. *Am J Pathol*. 2015 May;185(5):1275-85.
9. Ishii K, Kiyohara T, Yoshizaki S, Kawabata K, Kanayama A, Yahata Y, Takahashi T, Kinoshita H, Saitou T, Sunagawa T, Oishi K, Uema M, Noda M, Wakita T. Epidemiological and genetic analysis of a 2014 outbreak of hepatitis A in Japan. *Vaccine*. 2015 Nov 9;33(45):6029-36.
10. Islam MJ, Hikosaka K, Noritake H, Uddin MK, Amin MB, Aoto K, Wu YX, Sato E, Kobayashi Y, Wakita T, Miura N. Pol I-transcribed hepatitis C virus genome RNA replicates, produces an infectious virus and leads to severe hepatic steatosis in transgenic mice. *Biomed Res*. 2015;36(3):159-67. doi: 10.2220/biomedres.36.159. PubMed PMID: 26106045.
11. Ito M, Tsuchiaka S, Naoi Y, Otomaru K, Sato M, Masuda T, Haga K, Oka T, Yamasato H, Omatsu T, Sugimura S, Aoki H, Furuya T, Katayama Y, Oba M, Shirai J, Katayama K, Mizutani T, Nagai M. *Infect Genet Evol*. 2016 Mar;38:90-5.
12. Jiang X, Kanda T, Wu S, Nakamoto S, Nakamura M, Sasaki R, Haga Y, Wakita T, Shirasawa H, Yokosuka O. Hepatitis C Virus Nonstructural Protein 5A Inhibits MG132-Induced Apoptosis of Hepatocytes in Line with NF-κB-Nuclear Translocation. *PLoS One*. 2015 Jul 2;10(7):e0131973.

13. Kanayama A, Arima Y, Yamagishi T, Kinoshita H, Sunagawa T, Yahata Y, Matsui T, Ishii K, Wakita T, Oishi K. Epidemiology of domestically acquired hepatitis E virus infection in Japan: assessment of the nationally reported surveillance data, 2007-2013. *J Med Microbiol.* 2015 Jul;64(7):752-8.
14. Kaneko M, Watashi K, Kamisuki S, Matsunaga H, Iwamoto M, Kawai F, Ohashi H, Tsukuda S, Shimura S, Suzuki R, Aizaki H, Sugiyama M, Park SY, Ito T, Ohtani N, Sugawara F, Tanaka Y, Mizokami M, Sureau C, Wakita T. A Novel Tricyclic Polyketide, Vanitaracin A, Specifically Inhibits the Entry of Hepatitis B and D Viruses by Targeting Sodium Taurocholate Cotransporting Polypeptide. *J Virol.* 2015 Dec 1;89(23):11945-53.
15. Kataoka C, Suzuki T, Kotani O, Iwata-Yoshikawa N, Nagata N, Ami Y, Wakita T, Nishimura Y, Shimizu H. The Role of VP1 Amino Acid Residue 145 of Enterovirus 71 in Viral Fitness and Pathogenesis in a Cynomolgus Monkey Model. *PLoS Pathog* 11: e1005033, 2015
16. Kiyohara T, Ishii K, Sugiyama M., Mizokami M. and Wakita T. Seroepidemiological study of hepatitis B virus markers in Japan. *Vaccine.* 2015 Nov 9;33(45):6037-42.
17. Kobayashi M, Yoshizumi S, Kogawa S, Takahashi T, Ueki Y, Shinohara M, Mizukoshi F, Tsukagoshi H, Sasaki Y, Suzuki R, Shimizu H, Iwakiri A, Okabe N, Shirabe K, Shinomiya H, Kozawa K, Kusunoki H, Ryo A, Kuroda M, Katayama K, Kimura H. Molecular Evolution of the Capsid Gene in Norovirus Genogroup I. *Sci Rep.* 2015 Sep 4;5:13806.
18. Komada K, Sugiyama M, Vongphrachanh P, Xeuatvongsa A, Khamphaphongpane B, Kitamura T, Kiyohara T, Wakita T, Oshitani H, Hachiya M. Seroprevalence of chronic hepatitis B, as determined from dried blood spots, among children and their mothers in central Lao People's Democratic Republic: a multistage, stratified cluster sampling survey. *Int J Infect Dis.* 2015 Jul;36:21-6.
19. Komoto S, Tacharoenmuang R, Guntapong R, Ide T, Haga K, Katayama K, Kato T, Ouchi Y, Kurahashi H, Tsuji T, Sangkitporn S, Taniguchi K. Emergence and Characterization of Unusual DS-1-Like G1P[8] Rotavirus Strains in Children with Diarrhea in Thailand. *PLoS One.* 2015 Nov 5;10(11):e0141739.
20. Kong L, Fujimoto A, Nakamura M, Aoyagi H, Matsuda M, Watashi K, Suzuki R, Arita M, Yamagoe S, Dohmae N, Suzuki T, Sakamaki Y, Ichinose S, Suzuki T, Wakita T, Aizaki H. Prolactin regulatory element binding protein is involved in hepatitis C virus replication compartment by interacting with NS4B. *J Virol.* 2016 Jan 6;90(6):3093-111.
21. Kotani O, Iwata-Yoshikawa N, Suzuki T, Sato Y, Nakajima N, Koike S, Iwasaki T, Sata T, Yamashita T, Minagawa H, Taguchi F, Hasegawa H, Shimizu H, Nagata N. Establishment of a panel of in-house polyclonal antibodies for the diagnosis of enterovirus infections. *Neuropathology* 35: 107-121, 2015
22. Kotani O, Naeem A, Suzuki T, Iwata-Yoshikawa N, Sato Y, Nakajima N, Hosomi T, Tsukagoshi H, Kozawa K, Hasegawa H, Taguchi F, Shimizu H, Nagata N. Neuropathogenicity of Two Saffold Virus Type 3 Isolates in Mouse Models. *PLoS One* 11: e0148184, 2016.
23. Kouwaki T, Okamoto T, Ito A, Sugiyama Y, Yamashita K, Suzuki T, Kusakabe S, Hirano J, Fukuhara T, Yamashita A, Saito K, Okuzaki D, Watashi K, Sugiyama M, Yoshio S, Standley D, Kanto T, Mizokami M, Moriishi K, Matsuura Y. Hepatocyte factor JMJD5 regulates HBV replication through interaction with HBx. *J Virol.* 90. 3530-3542 (2016)

24. Lee EM, Alsagheir A, Wu X, Hammack C, McLauchlan J, Watanabe N, Wakita T, Kneteman NM, Douglas DN, Tang H. Hepatitis C Virus-Induced Degradation of Cell Death-Inducing DFFA-Like Effector B Leads to Hepatic Lipid Dysregulation. *J Virol.* 2016 Mar 28;90(8):4174-85.
25. Li T.C., Kataoka M., Takahashi K., Yoshizaki S., Kato T., Ishii K., Takeda N., Mishiro S. and Wakita T. Generation of hepatitis E virus-like particles of two new genotypes G5 and G6 and comparison of antigenic properties with those of known genotypes. *Veterinary Microbiology* 178: 150-157 (2015)
26. Li T.C., Yang T., Yoshizaki S., Ami Y., Suzuki Y., Ishii K., Kishida N., Shirakura M., Asanuma H., Takeda N. and Wakita T. Ferret Hepatitis E Virus Infection Induces Acute Hepatitis and Persistent Infection in Ferrets. *Veterinary Microbiology*, 2016 Feb 1;183:30-6.
27. Li T.C., Yoshizaki S., Ami Y., Suzuki Y., Yang T., Takeda N., and Wakita T. Monkeys and rats are not susceptible to ferret hepatitis E virus infection. *Intervirology*. 58: 139-142 (2015)
28. Li T.C., Yoshizaki S., Yang T., Kataoka M., Nakamura T, Ami Y., Suzuki Y., Takeda N., and Wakita T. Production of infectious ferret hepatitis E virus in a human hepatocarcinoma cell line PLC/PRF/5. *Virus Research*. 213:283-8 (2016)
29. Li Y, Yamane D, Masaki T, Lemon SM. The yin and yang of hepatitis C: synthesis and decay of hepatitis C virus RNA. *Nat Rev Microbiol* 13(9): 544-558, 2015.
30. Liu X, Oka T, Wang Q. Genomic characterization of a US porcine kobuvirus strain. *Arch Microbiol.* 197: 1033-40, 2015
31. Liu Z., Guo F., Wang F., Li T.C. and Jiang W. 2.9 Å Resolution Cryo-EM 3D Reconstruction of Close-Packed Virus Particles. *Structure*. 24:319-28 (2016)
32. Lu L, An Y, Zou J, Gu L, Zhao Z, Zhang X, Li C, Kurihara C, Hokari R, Itakura J, Kurosaki M, Izumi N, Fu Y, Nakano T, Kato T, Negro F, Chen G. The evolutionary patterns of hepatitis C virus subtype 2a and 6a isolates linked to an outbreak in China in 2012. *Virology*, 485, 431-8, 2015.
33. Lu Z, Yokoyama M, Chen N, Oka T, Jung K, Chang KO, Annamalai T, Wang Q, Saif LJ. Mechanism of cell culture adaptation of an enteric calicivirus, porcine sapovirus Cowden strain. *J Virol.* 90 : 1345-58, 2016
34. Masaki T, Suzuki T. NS5A phosphorylation: its functional role in the life cycle of hepatitis C virus. *Future Virol* 10(6): 751-762, 2015.
35. Matsunaga H, Kamisuki S, Kaneko M, Yamaguchi Y, Takeuchi T, Watashi K, Sugawara F. Isolation and structure of vanitaracin A, a novel anti-hepatitis B virus compound from *Talaromyces* sp. *Bioorg Med Chem Lett*: 25. 2015. 4325-4328
36. Matsushima Y, Ishikawa M, Shimizu T, Komane A, Kasuo S, Shinohara M, Nagasawa K, Kimura H, Ryo A, Okabe N, Haga K, Doan HY, Katayama K, Shimizu H. Genetic analyses of GII.17 norovirus strains in diarrheal disease outbreaks from December 2014 to March 2015 in Japan reveal a novel polymerase sequence and amino acid substitutions in the capsid region. *Eurosurveillance* July 2, 1-6, 2015.
37. McGivern DR, Masaki T, Lovell W, Hamlett C, Saalau-Bethell S, Graham B. Protease inhibitors block multiple functions of the NS3/4A protease-helicase during the hepatitis C virus life cycle. *J Virol* 89(10): 5362-5370, 2015.
38. Miyakawa K, Matsunaga S, Watashi K, Sugiyama M, Kimura H, Yamamoto N, Mizokami M, Wakita T, Ryo A. Molecular dissection of HBV evasion from restriction factor tetherin: A new perspective for antiviral cell therapy. *Oncotarget*: 6. 2015.

39. Motoya T., Nagata N., Komori H., Doi I., Kurosawa M., Keta T., Sasaki N and Ishii K. The high prevalence of hepatitis E virus infection in wild boars in Ibaraki Prefecture, Japan. *Journal of Veterinary Medical Science*, 77: 1705-1709 (2016)
40. Nagai M, Omatsu T, Aoki H, Kaku Y, Belsham GJ, Haga K, Naoi Y, Sano K, Umetsu M, Shiokawa M, Tsuchiaka S, Furuya T, Okazaki S, Katayama Y, Oba M, Shirai J, Katayama K., Mizutani T. Identification and complete genome analysis of a novel bovine picornavirus in Japan. *Virus Res.* 2015 Aug 7;210:205-212.
41. Nagai M, Shimada S, Fujii Y, Moriyama H, Oba M, Katayama Y, Tsuchiaka S, Okazaki S, Omatsu T, Furuya T, Koyama S, Shirai J, Katayama K., Mizutani T. H2 genotypes of G4P[6], G5P[7], and G9[23] porcine rotaviruses show super-short RNA electropherotypes. *Vet Microbiol.* 2015 Apr 17;176(3-4):250-6.
42. Nemoto M, Nagai M, Tsunemitsu H, Omatsu T, Furuya T, Shirai J, Kondo T, Fujii Y, Todaka R, Katayama K., Mizutani T. Whole-genome sequence analysis of G3 and G14 equine group A rotaviruses isolated in the late 1990s and 2009-2010. *Arch Virol.* 2015 May;160(5):1171-9.
43. Nishikori S, Takemoto K, Kamisuki S, Nakajima S., Kuramochi K, Tsukuda S., Iwamoto M., Katayama Y, Suzuki T, Kobayashi S, Watashi K., Sugawara F. Anti-hepatitis C virus natural product from a fungus, *Penicillium herquei*. *J Nat Prod*: 79. 442-446 (2016)
44. Nishimura Y., McLaughlin NP, Pan J, Goldstein S, Hafenstein S, Shimizu H., Winkler JD, Bergelson JM. The Suramin Derivative NF449 Interacts with the 5-fold Vertex of the Enterovirus A71 Capsid to Prevent Virus Attachment to PSLG-1 and Heparan Sulfate. *PLoS Pathog* 11: e1005184, 2015
45. Okitsu S, Khamrin P, Hanaoka N, Thongprachum A, Takanashi S, Fujimoto T, Mizuguchi M, Shimizu H., Hayakawa S, Maneekarn N, Ushijima H. Cosavirus (family Picornaviridae) in pigs in Thailand and Japan. *Arch Virol* 161: 159-163, 2016
46. Okuyama-Dobashi K, Kasai H, Tanaka T, Yamashita A, Yasumoto J, Chen W, Okamoto T, Maekawa S, Watashi K., Wakita T., Ryo A, Suzuki T, Matsuura Y, Enomoto N, Moriishi K. Hepatitis B virus efficiently infects non-adherent hepatoma cells via human sodium taurocholate cotransporting polypeptide. *Sci Rep*: 5. 2015. 17047
47. Otomaru K, Naoi Y, Haga K, Omatsu T, Uto T, Koizumi M, Masuda T, Yamasato H, Takai H, Aoki H, Tsuchiaka S, Sano K, Okazaki S, Katayama Y, Oba M, Furuya T, Shirai J, Katayama K., Mizutani T, Nagai M. Detection of novel kobu-like viruses in Japanese black cattle in Japan. *J Vet Med Sci*. 2016 Feb;78(2):321-4.
48. Ricco G., Bonino F., Lanza M., Scatena F., Alfieri C.M., Messa P., Marchisio E., Mascolo G., Romanò L., Galli C., Li T.C., Wakita T., Miyamura T., Brunetto M.R. New immunoassays for total, IgA and IgM antibodies against hepatitis E virus: Prevalence in Italian blood donors and patients with chronic liver or kidney diseases. *Dig Liver Dis.* 2016 May;48(5):536-41. Epub 2016 Feb 10.
49. Sankhyan A, Sharma C, Dutta D, Sharma T, Chosdol K, Wakita T., Watashi K., Awasthi A, Acharya S, Khanna N, Tiwari A, Sinha S. Inhibition of preS1-hepatocyte interaction by an array of recombinant human antibodies from naturally recovered individuals. *Sci Rep*: 6. 21240 (2016)
50. Shi G, Ando T, Suzuki R., Matsuda M., Nakashima K, Ito M, Omatsu T, Oba M, Ochiai H, Kato T, Mizutani T, Sawasaki T, Wakita T., Suzuki T. Involvement of the 3' Untranslated Region in Encapsidation of the Hepatitis C Virus. *PLoS Pathog*. e1005441 (2016).

51. Shima R., Li T.C., Sendai Y., Kataoka C., Mori Y., Abe T., Takeda N., Okamoto T. and Matsuura Y. Production of hepatitis E virus-like particles presenting multiple foreign epitops by co-infection of recombinant baculovirus. *Sci Rep*. 6:21638 (2016)
52. Shirasago Y, Shimizu Y, Tanida I, Suzuki T, Suzuki R, Sugiyama K, Wakita T, Hanada K, Yagi K, Kondoh M, Fukasawa M. Occludin-Knockout Human Hepatic Huh7.5.1-8-Derived Cells Are Completely Resistant to Hepatitis C Virus Infection. *Biol Pharm Bull*. 5:839-848. (2016).
53. Suzuki R, Saito K, Matsuda M, Sato M, Kanegae Y, Shi G, Watashi K, Aizaki H, Chiba J, Saito I, Wakita T, Suzuki T. Single-domain Intrabodies against HCV Core Inhibit Viral Propagation and Core-induced NF- κ B Activation. *J Gen Virol*. 2016 Apr;97(4):887-92.
54. Tacharoenmuang R, Komoto S, Guntapong R, Ide T, Haga K, Katayama K, Kato T, Ouchi Y, Kurahashi H, Tsuji T, Sangkitporn S, Taniguchi K. Whole Genomic Analysis of an Unusual Human G6P[14] Rotavirus Strain Isolated from a Child with Diarrhea in Thailand: Evidence for Bovine-To-Human Interspecies Transmission and Reassortment Events. *PLoS One*. 2015 Sep 30;10(9):e0139381.
55. Tasaka-Fujita M, Sugiyama N, Kang W, Masaki T, Murayama A, Yamada N, Sugiyama R, Tsukuda S, Watashi K, Asahina Y, Sakamoto N, Wakita T, Shin EC, Kato T. Amino Acid Polymorphisms in Hepatitis C Virus Core Affect Infectious Virus Production and Major Histocompatibility Complex Class I Molecule Expression. *Sci Rep*: 2015. 13994 (2015)
56. Tran DN, Trinh QD, Pham NT, Pham TM, Ha MT, Nguyen TQ, Okitsu S, Shimizu H, Hayakawa S, Mizuguchi M, Ushijima H. Human rhinovirus infections in hospitalized children: clinical, epidemiological and virological features. *Epidemiology and infection* 144: 346-354, 2016
57. Watashi K, Wakita T. Hepatitis B Virus and Hepatitis D Virus Entry, Species Specificity, and Tissue Tropism. *Cold Spring Harb Perspect Med*: 5. 2015. a021378
58. Wu FT, Chen HC, Yen C, Wu CY, Katayama K, Park Y, Hall AJ, Vinjé J, Huang JC, Wu HS. Epidemiology and molecular characteristics of norovirus GII.4 Sydney outbreaks in Taiwan, January 2012-December 2013. *J Med Virol*. 2015 Sep;87(9):1462-70.
59. Yamashita A, Fujimoto Y, Tamaki M, Setiawan A, Tanaka T, Okuyama-Dobashi K, Kasai H, Watashi K, Wakita T, Toyama M, Baba M, de Voogd NJ, Maekawa S, Enomoto N, Tanaka J, Moriishi K. Identification of Antiviral Agents Targeting Hepatitis B Virus Promoter from Extracts of Indonesian Marine Organisms by a Novel Cell-Based Screening Assay. *Mar Drugs*. 2015 Nov 6;13(11):6759-73. doi: 10.3390/md13116759. PubMed PMID: 26561821.
60. Yumiketa Y, Narita T, Inoue Y, Sato G, Kamitani W, Oka T, Katayama K, Sakaguchi T and Tohya Y. Nonstructural protein p39 of feline calicivirus suppresses host innate immune response by preventing IRF-3 activation. *Veterinary Microbiology*. 2016 Mar 15;185:62-7.
61. Zhang W., Sano N., Kataoka M., Ami Y., Suzuki Y., Wakita T, Ikeda H. and Li T.C. Virus-Like Particles of Porcine Bocavirus Generated by Recombinant Baculoviruses Can be Applied to Sero-epidemic Studies. *Virus Res*. 217:85-91 (2016)
62. Zhang Y, Yan D, Zhu S, Nishimura Y, Ye X, Wang D, Jorba J, Zhu H, An H, Shimizu H, Kew O, Xu W. An Insight into Recombination with Enterovirus Species C and Nucleotide G-480 Reversion from the Viewpoint of Neurovirulence of Vaccine-Derived Polioviruses. *Scientific Reports* 5: 17291, 2015

63. Zhou X., Kataoka M., Liu Z., Takeda N., Wakita T., Li T.C. Characterization of self assembled virus-like particles of dromedary camel hepatitis e virus generated by recombinant baculoviruses. *Virus Research*, 6; 210: 8-17 (2015)
64. Zhou X, Xu L, Wang W, Watashi K, Wang Y, Sprengers D, de Ruiter PE, van der Laan LJ, Metselaar HJ, Kamar N, Peppelenbosch MP, Pan Q. Disparity of basal and therapeutically activated interferon signalling in constraining hepatitis E virus infection. *J Viral Hepat*: 23. 294-304 (2016)