

อักษร ทงประชุม**Aksara THONGPRACHUM, Ph.D****OFFICE:** Faculty of Public Health, Chiang Mai University**PHONE:** +66-53-942507**E-MAIL:** thongprachuma@gmail.com, aksara.t@cmu.ac.th**EDUCATION**

- 2003 B.S. (Medical technology)
Faculty of Associated Medical Sciences, Chiang Mai University, Chiang Mai, Thailand
- 2007 M.S. (Microbiology)
Department of Microbiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2012 M.S. (International Health)
Department of Developmental Medical Sciences, School of International Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan
- 2015 Ph.D. (International Health)
Department of Developmental Medical Sciences, School of International Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

EXPERIENCED CAREER:

April 2003 – May 2004	Medical technologist at Phayao Ram Hospital, Phayao, Thailand
October 2007 – October 2008	Research assistant at Department of Microbiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
May 2015 – April 2017	Postdoctoral fellow under Japan Society for the Promotion of Science (JSPS) at Nihon University School of Medicine

CLASSES:

- 901702 Principle of Epidemiology
- 901706 Research Methodology in Public Health

AWARDS & GRANTS:

- Scholarship for practical training in research techniques at the Department of Developmental Medical Sciences, The University of Tokyo, Tokyo, Japan, by NRCT-JSPS program coordinated by The University of Tokyo and Mahidol University, February 2 – March 27, 2008
- Scholarship for practical training in research techniques at the Department of Developmental Medical Sciences, The University of Tokyo, Tokyo, Japan, by NRCT-JSPS program coordinated by The University of Tokyo and Mahidol University, May 26 – July 19, 2008
- Japanese Government (Monbukagakusho) scholarship for research student at The University of Tokyo, October 2008 – March 2010
- Japanese Government (Monbukagakusho) scholarship for Master study at The University of Tokyo, April 1, 2010 – March 31, 2012
- Japanese Government (Monbukagakusho) scholarship for Ph.D. study at The University of Tokyo, April 1, 2012 – March 31, 2015
- The Scientific Presentation Award (third prize), “The 14th Annual Contest for Scientific Papers by Foreign Students in the Graduate School of Medicine for the 2011 academic year (Ryu-gakusei ronbun contest)”, The University of Tokyo, Tokyo, Japan
- The Best Scientific Presentation Award (First prize) “The 5th Thailand-Japan International Academic Conference”, Tokyo Institute of Technology, Tokyo, Japan
- Postdoctoral fellowship for oversea researcher under Japan Society for the Promotion of Science (JSPS), May 1, 2015 – April 30, 2017

RESEARCH INTEREST:

- Epidemiology of infectious disease
- Molecular epidemiology and genetic diversity of viruses
- Structural analysis of viruses
- Vaccine development
- Development of rapid test for viral detection
- A surveillance survey of viruses in environment and food

PUBLICATION:

1. Kaneko M, Takanashi S, **Thongprachum A**, Hanaoka N, Fujimoto T, Nagasawa K, Kimura H, Okitsu S, Mizuguchi M, Ushijima H. Identification of vaccine-derived rotavirus strains in children with acute gastroenteritis in Japan, 2012-2015. *PLoS One*. 2017 Sep 13;12(9):e0184067.
2. Pham NTK, **Thongprachum A**, Baba T, Okitsu S, Trinh QD, Komine-Aizawa S, Shimizu H, Hayakawa S, Ushijima H. A 3-Month-Old Child with Acute Gastroenteritis with Enterovirus D68 Detected from Stool Specimen. *Clin Lab*. 2017 Jul 1;63(7):1269-72.
3. Khamrin P, Kumthip K, Supadej K, **Thongprachum A**, Okitsu S, Hayakawa S, Ushijima H, Maneekarn N. Noroviruses and sapoviruses associated with acute gastroenteritis in pediatric patients in Thailand: increased detection of recombinant norovirus GII.P16/GII.13 strains. *Arch Virol*. 2017 Nov;162(11):3371-3380.
4. Takanashi S, **Thongprachum A**, Okitsu S, Nishimura S, Kobayashi M, Kikuta H, Yamamoto A, Sugita K, Baba T, Hayakawa S, Mizuguchi M, Ushijima H. Molecular Epidemiological Traits of Group A Rotaviruses in Japanese Children During Transitional Period of Rotavirus Vaccine Implementation, 2011 - 2014. *Clin Lab*. 2017 May;63(5):961-70.
5. **Thongprachum A**, Okitsu S, Khamrin P, Maneekarn N, Hayakawa S, Ushijima H. Emergence of norovirus GII.2 and its novel recombination during the gastroenteritis outbreak in Japanese children in mid-2016. *Infect Genet Evol*. 2017 Jul;51:86-8.
6. Pham NT, Ushijima H, **Thongprachum A**, Trinh QD, Khamrin P, Arakawa C, Ishii W, Okitsu S, Komine-Aizawa S, Hayakawa S. Multiplex PCR for the Detection of 10 Viruses Causing Encephalitis/Encephalopathy and its Application to Clinical Samples Collected from Japanese Children with Suspected Viral. *Clin Lab*. 2017 Jan 1;63(1):91-100.
7. Ushijima H, **Thongprachum A**, Khamrin P, Takanashi S, Okitsu S, Maneekarn N, Hayakawa S. Evaluation of Immunochromatography Tests and New Enzyme Immunoassay for Detection of Novel GII.17 Norovirus in Stool Samples. *Jpn J Infect Dis*. 2016 Dec 22. doi: 10.7883/yoken.JJID.2016.413. [Epub ahead of print]
8. **Thongprachum A**, Khamrin P, Pham NT, Takanashi S, Okitsu S, Shimizu H, Maneekarn N, Hayakawa S, Ushijima H. Multiplex RT-PCR for rapid detection of viruses commonly causing diarrhea in pediatric patients. *J Med Virol*. 2017 May;89(5):818-24.
9. Khamrin P, Kumthip K, Yodmeeklin A, Supadej K, Ukarapol N, **Thongprachum A**, Okitsu S, Hayakawa S, Ushijima H, Maneekarn N. Molecular characterization of norovirus GII.17 detected in healthy adult, intussusception patient, and acute gastroenteritis children in Thailand. *Infect Genet Evol*. 2016 Oct;44:330-3.

10. Chuchaona W, Khamrin P, Yodmeeklin A, Kumthip K, Saikruang W, **Thongprachum A**, Okitsu S, Ushijima H, Maneekarn N. Detection and characterization of Aichi virus 1 in pediatric patients with diarrhea in Thailand. *J Med Virol.* 2017 Feb;89(2):234-8.
11. **Thongprachum A**, Khamrin P, Maneekarn N, Hayakawa S, Ushijima H. Epidemiology of gastroenteritis viruses in Japan: Prevalence, seasonality, and outbreak. *J Med Virol.* 2016;88(4):551-70. *Review.*
12. Khamrin P, **Thongprachum A**, Okitsu S, Hayakawa S, Maneekarn N, Ushijima H. Multiple astrovirus MLB1, MLB2, VA2 clades, and classic human astrovirus in children with acute gastroenteritis in Japan. *J Med Virol.* 2016;88(2):356-60.
13. 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.* 2016;161(1):159-63.
14. Pham NT, **Thongprachum A**, Tran DN, Nishimura S, Shimizu-Onda Y, Trinh QD, Khamrin P, Ukarapol N, Kongsricharoern T, Komine-Aizawa S, Okitsu S, Maneekarn N, Hayakawa S, Ushijima H. Antibiotic Resistance of *Campylobacter jejuni* and *C. coli* Isolated from Children with Diarrhea in Thailand and Japan. *Jpn J Infect Dis.* 2016;69(1):77-9.
15. Mladenova Z, Dikova A, **Thongprachum A**, Petrov P, Pekova L, Komitova R, Iturriza-Gomara M, Ushijima H. Diversity of human parechoviruses in Bulgaria, 2011: Detection of rare genotypes 8 and 10. *Infect Genet Evol.* 2015;36:315-22.
16. Khamrin P, **Thongprachum A**, Takanashi S, Okitsu S, Maneekarn N, Hayakawa S, Ushijima H. Evaluation of immunochromatography tests for detection of novel GII.17 norovirus in stool samples. *Euro Surveill.* 2015;20(28).
17. **Thongprachum A**, Takanashi S, Kalesaran AF, Okitsu S, Mizuguchi M, Hayakawa S, Ushijima H. Four-year study of viruses that cause diarrhea in Japanese pediatric outpatients. *J Med Virol.* 2015;87(7):1141-8.
18. Ushijima H, **Thongprachum A**, Tran DN, Fujimoto T, Hanaoka N, Okitsu S, Takanashi S, Mizuguchi M, Hayakawa S. Rapid diagnostic tests apply for pediatric infections at outpatient clinic setting. *Clin Lab.* 2015;61(1-2):195-9.
19. Okitsu S, Khamrin P, **Thongprachum A**, Nishimura S, Kalesaran AF, Takanashi S, Shimizu H, Hayakawa S, Mizuguchi M, Ushijima H. Detection and molecular characterization of human cosavirus in a pediatric patient with acute gastroenteritis, Japan. *Infect Genet Evol.* 2014;28:125-9.
20. Khamrin P, **Thongprachum A**, Okitsu S, Maneekarn N, Hayakawa S, Ushijima H. Comparison of three rapid tests for detection of norovirus in stool samples of acute gastroenteritis pediatric patients. *J Trop Pediatr.* 2014;60(6):481-3.

21. Okitsu S, Khamrin P, **Thongprachum A**, Kalesaran AF, Takanashi S, Shimizu H, Maneekarn N, Mizuguchi M, Hayakawa S, Ushijima H. Molecular characterization and sequence analysis of the 2B region of Aichivirus C strains in Japan and Thailand. *Infect Genet Evol.* 2014;26:89-94.
22. Chaimongkol N, Khamrin P, Malasao R, **Thongprachum A**, Kongsricharoern T, Ukarapol N, Ushijima H, Maneekarn N. Molecular characterization of norovirus variants and genetic diversity of noroviruses and sapoviruses in Thailand. *J Med Virol.* 2014;86(7):1210-8.
23. **Thongprachum A**, Chan-it W, Khamrin P, Saparpakorn P, Okitsu S, Takanashi S, Mizuguchi M, Hayakawa S, Maneekarn N, Ushijima H. Molecular epidemiology of norovirus associated with gastroenteritis and emergence of norovirus GII.4 variant 2012 in Japanese pediatric patients. *Infect Genet Evol.* 2014;23:65-73.
24. Chan-It W, **Thongprachum A**, Okitsu S, Mizuguchi M, Ushijima H. Genetic analysis and homology modeling of capsid protein of norovirus GII.14. *J Med Virol.* 2014;86(2):329-34.
25. Ushijima H, Nishimura S, **Thongprachum A**, Shimizu-Onda Y, Tran DN, Pham NT, Takanashi S, Dey SK, Okitsu S, Yamazaki W, Mizuguchi M, Hayakawa S. Sensitive and rapid detection of campylobacter species from stools of children with diarrhea in Japan by the loop-mediated isothermal amplification method. *Jpn J Infect Dis.* 2014;67(5):374-8.
26. Yazawa S, Yokobori T, Ueta G, Ide M, Altan B, **Thongprachum A**, Nishimura T, Nakajima T, Kominato Y, Asao T, Saniabadi AR, Furukawa K, Kuwano H, Le Pendu J, Ushijima H. Blood group substances as potential therapeutic agents for the prevention and treatment of infection with noroviruses proving novel binding patterns in human tissues. *PLoS One.* 2014;9(2):e89071.
27. Okitsu S, Khamrin P, **Thongprachum A**, Kongkaew A, Maneekarn N, Mizuguchi M, Hayakawa S, Ushijima H. Whole-genomic analysis of G3P[23], G9P[23] and G3P[13] rotavirus strains isolated from piglets with diarrhea in Thailand, 2006-2008. *Infect Genet Evol.* 2013;18:74-86.
28. **Thongprachum A**, Khamrin P, Chan-It W, Malasao R, Chaimongkol N, Okitsu S, Mizuguchi M, Maneekarn N, Hayakawa S, Ushijima H. Emergence of norovirus GII/4 2006a and 2006b variants in hospitalized children with acute gastroenteritis in Thailand. *Clin Lab.* 2013;59(3-4):271-6.
29. Khamrin P, **Thongprachum A**, Kikuta H, Yamamoto A, Nishimura S, Sugita K, Baba T, Kobayashi M, Okitsu S, Hayakawa S, Shimizu H, Maneekarn N, Ushijima H. Three clusters of Saffold viruses circulating in children with diarrhea in Japan. *Infect Genet Evol.* 2013;13:339-43.
30. **Thongprachum A**, Chan-it W, Khamrin P, Okitsu S, Nishimura S, Kikuta H, Yamamoto A, Sugita K, Baba T, Mizuguchi M, Maneekarn N, Hayakawa S, Ushijima H. Reemergence of new variant G3 rotavirus in Japanese pediatric patients, 2009-2011. *Infect Genet Evol.* 2013;13:168-74.
31. Chaimongkol N, Khamrin P, Malasao R, **Thongprachum A**, Ushijima H, Maneekarn N. Genotypic linkages of gene segments of rotaviruses circulating in pediatric patients with acute gastroenteritis in Thailand. *Infect Genet Evol.* 2012;12(7):1381-91.

32. Chan-It W, **Thongprachum A**, Khamrin P, Kobayashi M, Okitsu S, Mizuguchi M, Ushijima H. Emergence of a new norovirus GII.6 variant in Japan, 2008-2009. *J Med Virol.* 2012;84(7):1089-96.
33. Khamrin P, **Thongprachum A**, Shimizu H, Okitsu S, Mizuguchi M, Hayakawa S, Maneekarn N, Ushijima H. Detection of human bocavirus 1 and 2 from children with acute gastroenteritis in Japan. *J Med Virol.* 2012;84(6):901-5.
34. Tran DN, Pham NT, Tran TT, Khamrin P, **Thongprachum A**, Komase K, Hayakawa S, Mizuguchi M, Ushijima H. Phylogenetic analysis of rubella viruses in Vietnam during 2009-2010. *J Med Virol.* 2012;84(4):705-10.
35. Okitsu S, Khamrin P, **Thongprachum A**, Hidaka S, Kongkaew S, Kongkaew A, Maneekarn N, Mizuguchi M, Hayakawa S, Ushijima H. Sequence analysis of porcine kobuvirus VP1 region detected in pigs in Japan and Thailand. *Virus Genes.* 2012;44(2):253-7.
36. **Thongprachum A**, Khamrin P, Tran DN, Okitsu S, Mizuguchi M, Hayakawa S, Maneekarn N, Ushijima H. Evaluation and comparison of the efficiency of immunochromatography methods for norovirus detection. *Clin Lab.* 2012;58(5-6):489-93.
37. Chaimongkol N, Khamrin P, Suantai B, Saikhreang W, **Thongprachum A**, Malasao R, Ukarapol N, Kongsricharoern T, Ushijima H, Maneekarn N. A wide variety of diarrhea viruses circulating in pediatric patients in Thailand. *Clin Lab.* 2012;58(1-2):117-23.
38. Dey SK, Phathamavong O, Nguyen TD, **Thongprachum A**, Chan-It W, Okitsu S, Mizuguchi M, Ushijima H. Seasonal pattern and genotype distribution of sapovirus infection in Japan, 2003-2009. *Epidemiol Infect.* 2012;140(1):74-7.
39. Khamrin P, Tran DN, Chan-it W, **Thongprachum A**, Okitsu S, Maneekarn N, Ushijima H. Comparison of the rapid methods for screening of group a rotavirus in stool samples. *J Trop Pediatr.* 2011;57(5):375-7.
40. Khamrin P, Okame M, **Thongprachum A**, Nantachit N, Nishimura S, Okitsu S, Maneekarn N, Ushijima H. A single-tube multiplex PCR for rapid detection in feces of 10 viruses causing diarrhea. *J Virol Methods.* 2011;173(2):390-3.
41. Chan-it W, **Thongprachum A**, Dey SK, Phan TG, Khamrin P, Okitsu S, Nishimura S, Kobayashi M, Kikuta H, Baba T, Yamamoto A, Sugita K, Hashira S, Tajima T, Ishida S, Mizuguchi M, Ushijima H. Detection and genetic characterization of rotavirus infections in non-hospitalized children with acute gastroenteritis in Japan, 2007-2009. *Infect Genet Evol.* 2011;11(2):415-22.
42. Chan-It W, **Thongprachum A**, Okitsu S, Nishimura S, Kikuta H, Baba T, Yamamoto A, Sugita K, Hashira S, Tajima T, Mizuguchi M, Ushijima H. Detection and genetic characterization of norovirus infections in children with acute gastroenteritis in Japan, 2007-2009. *Clin Lab.* 2011;57(3-4):213-20.

43. Okitsu S, Khamrin P, **Thongprachum A**, Maneekarn N, Mizuguchi M, Ushijima H. Predominance of porcine P[23] genotype rotaviruses in piglets with diarrhea in northern Thailand. *J Clin Microbiol.* 2011;49(1):442-5.
44. **Thongprachum A**, Khamrin P, Chaimongkol N, Malasao R, Okitsu S, Mizuguchi M, Maneekarn N, Ushijima H. Evaluation of an immunochromatography method for rapid detection of noroviruses in clinical specimens in Thailand. *J Med Virol.* 2010;82(12):2106-9.
45. **Thongprachum A**, Chaimongkol N, Khamrin P, Pantip C, Mizuguchi M, Ushijima H, Maneekarn N. A novel multiplex RT-PCR for identification of VP6 subgroups of human and porcine rotaviruses. *J Virol Methods.* 2010;168(1-2):191-6.
46. Chan-it W, **Thongprachum A**, Okitsu S, Mizuguchi M, Ushijima H. Epidemiology and molecular characterization of sapovirus and astrovirus in Japan, 2008-2009. *Jpn J Infect Dis.* 2010;63(4):302-3.
47. Khamrin P, Dey SK, Chan-it W, **Thongprachum A**, Satou K, Okitsu S, Maneekarn N, Ushijima H. Evaluation of a rapid immunochromatography strip test for detection of astrovirus in stool specimens. *J Trop Pediatr.* 2010;56(2):129-31.
48. Khamrin P, Maneekarn N, **Thongprachum A**, Chaimongkol N, Okitsu S, Ushijima H. Emergence of new norovirus variants and genetic heterogeneity of noroviruses and sapoviruses in children admitted to hospital with diarrhea in Thailand. *J Med Virol.* 2010;82(2):289-96.
49. Khamrin P, **Thongprachum A**, Chaimongkol N, Chusri P, Okitsu S, Ushijima H, Maneekarn N. Evolutionary consequences of G9 rotaviruses circulating in Thailand. *Infect Genet Evol.* 2009;9(6):1394-9.
50. Dey SK, **Thongprachum A**, Ota Y, Phan TG, Nishimura S, Mizuguchi M, Okitsu S, Ushijima H. Molecular and epidemiological trend of rotavirus infection among infants and children in Japan. *Infect Genet Evol.* 2009;9(5):955-61.
51. Dey SK, **Thongprachum A**, Islam AR, Phan GT, Rahman M, Mizuguchi M, Okitsu S, Ushijima H. Molecular analysis of G3 rotavirus among infants and children in Dhaka City, Bangladesh after 1993. *Infect Genet Evol.* 2009;9(5):983-6.
52. Chanit W, **Thongprachum A**, Khamrin P, Okitsu S, Mizuguchi M, Ushijima H. Intergenogroup recombinant sapovirus in Japan, 2007-2008. *Emerg Infect Dis.* 2009;15(7):1084-7.
53. **Thongprachum A**, Khamrin P, Saekhow P, Pantip C, Peerakome S, Ushijima H, Maneekarn N. Analysis of the VP6 gene of human and porcine group A rotavirus strains with unusual subgroup specificities. *J Med Virol.* 2009;81(1):183-91.
54. Khamrin P, Maneekarn N, Peerakome S, Malasao R, **Thongprachum A**, Chan-It W, Mizuguchi M, Okitsu S, Ushijima H. Molecular characterization of VP4, VP6, VP7, NSP4, and NSP5/6 genes identifies an unusual G3P[10] human rotavirus strain. *J Med Virol.* 2009;81(1):176-82.

55. Chan-It W, Khamrin P, Saekhow P, Pantip C, **Thongprachum A**, Peerakome S, Ushijima H, Maneekarn N. Multiple combinations of P[13]-like genotype with G3, G4, and G5 in porcine rotaviruses. *J Clin Microbiol.* 2008;46(4):1169-73.

Book Chapter

Ushijima H, Thongprachum A, Okitsu S, Khamrin P. Immunochromatography tests for rapid diagnosis of noroviruses. *Norovirus Book.*

PRESENTATION:

Poster presentation

1. **Thongprachum A**, Chan-it W, Khamrin P, Saekhow, Peerakome S, Ushijima H and Maneekarn N. Sequential point mutations in the VP7 gene affects RT-PCR genotyping of G2, G4 and G5 porcine rotaviruses identified in Chiang Mai, Thailand. 11th Asian Conference on Diarrheal Diseases and Nutrition (11th ASCODD 2006). March 8-10, 2006. Bangkok, Thailand.
2. **Thongprachum A**, Khamrin P, Saekhow P, Peerakome S, and Maneekarn N. Development of a novel multiplex RT-PCR assay for subgrouping human and porcine rotaviruses. The 3rd Scientific Meeting, November 23-25, 2007. Chiang Mai, Thailand.
3. **Thongprachum A**, Khamrin P, Saekhow P, Peerakome S, and Maneekarn N. Analysis of VP6 Gene of human and porcine rotavirus strains with unusual subgroup specificities. The 17th Scientific Annual Meeting. November 16, 2007. Bangkok, Thailand.
4. **Thongprachum A**, Khamrin P, Takanashi S, Okitsu S, maneekarn N, Mizuguchi M, Hayakawa S, Ushijima H. The emergence of norovirus GII.4 variant 2012 in Japanese pediatric patients. The 5th International Conference for Calicivirus. October 12-15, 2013. Beijing, China.
5. **Thongprachum A**, Yazawa S, Okitsu S, Takanashi S, Hayakawa S, Ushijima H. Molecular changes of norovirus GII.4 variants in associated with the binding patterns to human blood group substances. The 6th International Calicivirus Conference, October 9 – 13, 2016. Savannah, USA.

Oral presentation

1. **Thongprachum A**. Analysis of VP6 gene of rotavirus strains with unusual subgroup specificities and evaluation of genetic linkage between VP6 and NSP4 genes. The 3rd Scientific Annual Meeting. March 9, 2007. Chiang Mai University, Chiang Mai, Thailand.
2. **Thongprachum A**, Chan-it W, Khamrin P, Okitsu S, Ushijima H. Detection of group A rotavirus and norovirus GII infections among children hospitalized with acute gastroenteritis in Chiang Mai, Thailand 2006. The 56th Japanese Society for Virology. October 26-28, 2008. Okayama, Japan.

3. **Thongprachum A**, Khamrin P, Takanashi S, Nguyen TA, Okitsu S, Mizuguchi M, Ushijima H. Evaluation of immununochromatography kits for rapid detection of norovirus in clinical specimens from Japan, Vietnam, and Thailand. June 2, 2010. Tokyo, Japan. (workshop)
4. **Thongprachum A**, Okitsu S, Ushijima H. Evaluation and comparison of immunochromatography kits for rapid detection of noroviruses. The 58th Japanese Society for Virology. October 11, 2010. Osaka, Japan.
5. **Thongprachuma A**, Okitsu S, Hayakawa, S, Ushijima H. Genetic characterization of group A rotavirus circulating among children with acute gastroenteritis in Japan in 2009-2010. The 52nd Japanese Society for Clinical Virology Meeting. June 11-12, 2011. Mie, Japan.
6. **Thongprachum A**, Okitsu S, Hayakawa S, Ushijima H. Molecular epidemiological trend of diarrheal virus infections in Japanese pediatric patients, 2009-2011. The 8th Japanese Society for Pediatric Infectious Disease. February 11, 2012. Tokyo, Japan.
7. **Thongprachum A**, Khamrin P, Tran DN, Maneekarn N, Mizuguchi M, Okitsu S, Hayakawa S, Ushijima H. Picornaviruses associated with gastroenteritis in Japan and Thailand. The 16th Annual Meeting of Japanese Society for Neurovirology. July 30, 2012. Tokyo, Japan.
8. **Thongprachum A**, Okitsu S, Mizuguchi M, Ushijima H. Reemergence of new variant G3 rotavirus in Japanese pediatric patients. The 5th Thailand-Japan International Academic Conference 2012. October 20, 2012. Tokyo, Japan.
9. **Thongprachum A**, Khamrin P, Takanashi S, Okitsu S, Kobayashi M, Nishimura S, Kikuta H, Yamamoto A, Sugita K, Baba T, Mizuguchi M, Hayakawa S, Ushijima H. A wide variety of gastroenteritis viruses circulating in Japanese pediatric patients. The 61th Japanese Society for Virology. November 14, 2013. Kobe, Japan.
10. **Thongprachum A**, Takanashi S, Okitsu S, Kobayashi M, Nishimura S, Kikuta H, Yamamoto A, Sugita K, Baba T, Mizuguchi M, Hayakawa S, Ushijima H. Molecular and epidemiological trend of sapovirus and astrovirus infection in Japanese pediatric patients, 2009-2013. The 10th Annual Meeting of Japanese Study Group for Pediatric Gastroinfectious Infectious Diseases. February 1, 2014. Tokyo, Japan.
11. **Thongprachum A**, Chan-it W, Takanashi S, Okitsu S, Kobayashi M, Nishimura S, Kikuta H, Yamamoto A, Sugita K, Baba T, Mizuguchi M, Hayakawa S, Ushijima H. Molecular epidemiology and genetic analyses of norovirus in Japan, 2006-2014. The 46th Annual meeting of Japanese Society for Pediatric Infectious Disease. October 18, 2014. Tokyo, Japan.
12. **Thongprachum A**, Yazawa S, Okitsu S, Takanashi S, Mizuguchi M, Hayakawa S, Ushijima H. Molecular changes of norovirus GII.4 variants associated with acquired different binding patterns to human blood group substances. The 62nd Japanese Society for Virology. November 12, 2014. Yokohama, Japan.

13. **Thongprachum A**, Takanashi S, Okitsu S, Shimizu H, Kobayashi M, Nishimura S, Kikuta H, Yamamoto A, Sugita K, Baba T, Hayakawa S, Ushijima H. Epidemiology of human adenovirus causing diarrhea in Japanese children, 2009-2014. The 47th annual meeting of Japanese society for pediatric infectious disease. October 31, 2015. Fukushima, Japan.
14. **Thongprachum A**, Takanashi S, Okitsu S, Hayakawa S, Ushijima H. Long-term survey on genetic diversity of norovirus in Japanese children. The 63rd Japanese Society for Virology. November 23, 2015. Fukuoka, Japan.
15. **Thongprachum A**, Fujimoto T, Takanashi S, Okitsu S, Hayakawa S, Ushijima H. A variety of virus commonly causing diarrhea detected in untreated sewage. The 64th Japanese Society for Virology. October 12-14, 2016m. Hokkaido, Japan.

COLLABORATION:

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