

### 3. Department of Virology III

Apr;517:9-15

- 1) Mori Y, Miyoshi M, Kikuchi M, Sekine M, Umezawa M, Saikusa M, Matsushima Y, Itamochi M, Yasui Y, Kanbayashi D, Miyoshi T, Akiyoshi K, Tatsumi C, Zaitsu S, Kadoguchi M, Otsuki N, Okamoto K, Sakata M, Komase K, Takeda M. (2017) Molecular epidemiology of rubella virus strains detected around the time of the 2012-2013 epidemic in Japan. *Front Microbiol* 8:1513
- 2) Otsuki N, Sakata M, Mori Y, Okamoto K, Takeda M. (2018) Analysis of the effect of Sphingomyelinase on rubella virus infectivity in two cell lines. *Bio Protoc* (in press)
- 3) Otsuki N, Sakata M, Saito K, Okamoto K, Mori Y, Hanada K, Takeda M. (2018) Both sphingomyelin and cholesterol in the host cell membrane are essential for rubella virus entry. *J Virol* 92:e01130-17
- 4) Sakata M, Tani H, Anraku M, Kataoka M, Nagata N, Seki F, Tahara M, Otsuki N, Okamoto K, Takeda M, Mori Y. (2017) Analysis of VSV pseudotype\_virus\_infection mediated by rubella virus envelope proteins. *Sci Rep* 7:11607
- 5) Katoh H, Kubota T, Nakatsu Y, Tahara M, Kidokoro M, Takeda M. (2017) Heat shock protein 90 ensures efficient mumps virus replication by assisting with viral polymerase complex formation. *J Virol* 91:e02220-16
- 6) Matsuyama S, Shirato K, Kawase M, Terada Y, Kawachi K, Fukushi S, Kamitani W. Middle East respiratory syndrome coronavirus spike protein is not activated directly by cellular furin during viral entry into target cells. *J Virol*. 2018 Jul 18. pii: JVI.00683-18
- 7) Shirato K, Kanou K, Kawase M, Matsuyama S. Clinical Isolates of Human Coronavirus 229E Bypass the Endosome for Cell Entry. *J Virol*. 2017;91(1):e01387-16
- 8) Shirato K, Kawase M, Matsuyama S. Wild-type human coronaviruses prefer cell-surface TMPRSS2 to endosomal cathepsins for cell entry. *Virology*. 2018
- 9) Shirato K, Semba S, El-Kafrawy SA, Hassan AM, Tolah AM, Takayama I, Kageyama T, Notomi T, Kamitani W, Matsuyama S, Azhar EI. Development of fluorescent reverse transcription loop-mediated isothermal amplification (RT-LAMP) using quenching probes for the detection of the Middle East respiratory syndrome coronavirus. *J Virol Methods*. 2018 Aug;258:41-48
- 10) Hachiya M, Miyano S, Mori Y, Vynnycky E, Keungsaneth P, Vongphrachanh P, Xeuatvongsa A, Sisouk T, Som-Oulay V, Khamphaphongphane B, Sengkeopaseuth B, Pathammavong C, Phounphenghak K, Kitamura T, Takeda M, Komase K. (2018) Evaluation of nationwide supplementary immunization in Lao People's Democratic Republic: population-based seroprevalence survey of anti-measles and anti-rubella IgG in children and adults, mathematical modelling and a stability testing of the vaccine. *PLoS One* 13:e0194931
- 11) Matsushima Y, Shimizu T, Doi I, Mizukoshi F, Nagasawa K, Ryo A, Shimizu H, Kobayashi M, Funatogawa K, Nagata N, Ishikawa M, Komane A, Okabe N, Mori Y, Takeda M, Kimura H. (2017) A detection method for the rash and fever illness-associated viruses using multiplex RT-PCR. *Microbiol Immunol* 61:337-44
- 12) Pratakpiriya W, Teh APP, Radtanakatikanon A, Pirarat N, Thi LN, Takeda M, Techangamsuwan S, Yamaguchi R. (2017) Expression of canine distemper virus receptor nectin-4 in the central nervous system of dogs. *Sci Rep* 7:349
- 13) Saikusa M, Nao N, Kawakami C, Usuku S, Sasao T, Toyozawa T, Takeda M, Okubo I. (2017) A novel 111-nucleotide duplication in the G gene of human metapneumovirus. *Microbiol Immunol* 61:507-12
- 14) Saikusa M, Kawakami C, Nao N, Takeda M, Usuku S, Sasao T, Nishimoto K, Toyozawa T. (2017) 180-nucleotide duplication in the G gene of human metapneumovirus A2b subgroup strains circulating in

- Yokohama city, Japan, since 2014. *Front Microbiol.* 8:402
- 15) Saito K, Otsuki N, Takeda M, Hanada K. (2018) Liposome floatation assay for studying interaction between rubella virus particles and lipid membranes. *Bio Protoc* 8:e2983
- 16) Watanabe A, Kobayashi Y, Shimada T, Yahata Y, Kobayashi A, Kanai M, Hachisu Y, Fukusumi M, Kamiya H, Takahashi T, Arima Y, Kinoshita H, Kanou K, Saitoh T, Arai S, Satoh H, Okuno H, Morino S, Matsui T, Sunagawa K, Tanaka-Taya K, Takeda M, Komase K, Oishi K. (2017) Exposure of travellers and a ground crew member to H1 genotype measles virus at a large international airport in Japan on 31 July. *Western Pac Surveill Response J* 8:37-9
- 17) Yoshida A, Kawabata R, Honda T, Sakai K, Ami Y, Sakaguchi T, Irie T. (2018) A single amino acid substitution within the Paramyxovirus Sendai virus nucleoprotein is a critical determinant for production of IFN-beta-inducing copyback-type defective interfering genomes. *J Virol.* 92(5). pii: e02094-17
- 18) Sangsriratanakul N, Toyofuku C, Suzuki M, Komura M, Yamada M, Alam MS, Ruenphet S, Shoham D, Sakai K, Takehara T. (2018) Virucidal Efficacy of Food Additive Grade Calcium Hydroxide against Surrogate of Human Norovirus. *J Virol. Methods.* 251:83-87
- 19) Kitamura T, Bouakhasith V, Phounphenghack K, Pathammavong C, Xeuatvongsa A, Norizuki M, Okabayashi H, Mori Y, Machida M, Hachiya M. (2018) Assessment of temperatures in the vaccine cold chain in two provines in Lao People's Democratic Republic: a crosse-sectional pilot study. *BMC Res Notes* 11:261
- 20) Kuba Y, Kyan H, Arakaki E, Takara T, Kato T, Okano S, Oshiro Y, Kudaka J, Kidokoro M. Molecular Epidemiological Study of Mumps Epidemics of 2015 in Okinawa, Japan. *Jpn J Infect Dis.* 2017,70(3), 329-32
- 21) Niizuma T, Obinata K, Kinoshita K, Kidokoro M, Shimizu T. Detection of mumps virus vaccine strain in breast milk after postpartum vaccination. *Juntendo Medical Journal.* 2017, 63, 370-2
- 22) Li TC, Yoshizaki S, Zhou X, Sentsui H, Shirato K, Matsuyama S, Melaku SK, Bazartseren B, Takeda N, Wakita T. Serological evidence of hepatitis E virus infection in dromedary camels in Ethiopia. *J Virol Methods.* 2017 Aug;246:34-37
- 23) Fukushi S, Fukuma A, Kurosu T, Watanabe S, Shimojima M, Shirato K, Iwata-Yoshikawa N, Nagata N, Ohnishi K, Ato M, Melaku SK, Sentsui H, Saijo M. Characterization of novel monoclonal antibodies against the MERS-coronavirus spike protein and their application in species-independent antibody detection by competitive ELISA. *J Virol Methods.* 2018 Jan;251:22-29
- 24) Nakao R, Matsuno K, Qiu Y, Maruyama J, Eguchi N, Nao N, Kajihara M, Yoshii K, Sawa H, Takada A, Sugimoto C. Putative RNA viral sequences detected in an Ixodes scapularis-derived cell line. *Ticks Tick Borne Dis.* 2017 Jan;8(1):103-111
- 25) Kondoh T, Manzoor R, Nao N, Maruyama J, Furuyama W, Miyamoto H, Shigeno A, Kuroda M, Matsuno K, Fujikura D, Kajihara M, Yoshida R, Igarashi M, Takada A. Putative endogenous filovirus VP35-like protein potentially functions as an IFN antagonist but not a polymerase cofactor. *PLoS One.* 2017 Oct 17;12(10)
- 26) Ogawa H, Kajihara M, Nao N, Shigeno A, Fujikura D, Hang'ombe BM, Mweene AS, Mutemwa A, Squarre D, Yamada M, Higashi H, Sawa H, Takada A. Characterization of a Novel Bat Adenovirus Isolated from Straw-Colored Fruit Bat (*Eidolon helvum*). *Viruses.* 2017 Dec 4;9(12)
- 27) Matsuno K, Kajihara M, Nakao R, Nao N, Mori-Kajihara A, Muramatsu M, Qiu Y, Torii S, Igarashi M, Kasajima N, Mizuma K, Yoshii K, Sawa H, Sugimoto C, Takada A, Ebihara H. The Unique Phylogenetic Position of a Novel Tick-Borne Phlebovirus Ensures an Ixodid Origin of the Genus

