

3. Department of Virology III

1. Seki F, Someya K, Komase K, Takeda M. A chicken homologue of nectin-4 functions as a measles virus receptor. *Vaccine*. 2016 Jan 2;34(1):7-12.
2. Sakai K, Ami Y, Nakajima N, Nakajima K, Kitazawa M, Anraku M, Takeyama I, Sangsriatanakul N, Komura M, Sato Y, Asanuma H, Takashita E, Komase K, Takehara K, Tashiro M, Hasegawa H, Odagiri T, Takeda M. (2016) TMPRSS2 independency for haemagglutinin cleavage in vivo differentiates influenza B virus from influenza A virus. *Sci Rep* 6:29430
3. Sakai K, Sekizuka T, Ami Y, Nakajima N, Kitazawa M, Sato Y, Nakajima K, Anraku M, Kubota T, Komase K, Takehara K, Hasegawa H, Odagiri T, Tashiro M, Kuroda M, Takeda M. (2015) A mutant H3N2 influenza virus uses an alternative activation mechanism in TMPRSS2 knockout mice by loss of an oligosaccharide in the hemagglutinin stalk region. *J Virol*.89:5154-8.
4. Sakai K, Hagiwara K, Omatsu T, Hamasaki C, Kuwata R, Shimoda H, Suzuki K, Endoh D, Nagata N, Nagai M, Katayama Y, Oba M, Kurane I, Saijo M, Morikawa S, Mizutani T, Maeda K. (2015) Isolation and characterization of a novel Rhabdovirus from a wild boar (*Sus scrofa*) in Japan. *Vet Microbiol*. 179(3-4):197-203.
5. Tahara M, Burckert J, Kanou K, Maenaka K, Muller CP, Takeda M. (2016) Measles virus hemagglutinin protein epitopes: The basis of antigenic stability. *Viruses* 8:E216
6. Okamoto K, Mori Y, Komagome R, Nagano H, Miyoshi M, Okano M, Aoki Y, Ogura A, Hotta C, Ogawa T, Saikusa M, Kodama H, Yasui Y, Minagawa H, Kurata T, Kanbayashi D, Kase T, Murata S, Shirabe K, Hamasaki M, Kato T, Otsuki N, Sakata M, Komase K, Takeda M. (2016) Evaluation of sensitivity of TaqMan RT-PCR for rubella virus detection in clinical specimens. *J. Clin. Virol.* 80: 98-101.
7. Okamoto K, Ami Y, Suzaki Y, Otsuki N, Sakata M, Takeda M, Mori Y. (2016) Analysis of the temperature sensitivity of Japanese rubella vaccine strain TO-336.vac and its effect on immunogenicity in the guinea pig. *Virology* 491:89-95.
8. Katoh H, Kubota T, Kita S, Nakatsu Y, Aoki N, Mori Y, Maenaka K, Takeda M, Kidokoro M. (2015) Heat shock protein 70 regulates degradation of the mumps virus phosphoprotein via the ubiquitin-proteasome pathway. *J. Virol.*, 89(6), 3188-99.
9. Katoh H, Nakatsu Y, Kubota T, Sakata M, Takeda M, Kidokoro M. (2015) Mumps virus is released from the apical surface of polarized epithelial cells, and the release is facilitated by a Rab11-mediated transport system. *J. Virol.*, 89(23), 12026-34.
10. Katoh H, Kubota T, Ihara T, Maeda K, Takeda M, Kidokoro M. (2016) Cross-neutralization between human and African bat mumps viruses. *Emerg. Infect. Dis.* 22(4), 703-6.
11. Shirato K, Azumano A, Nakao T, Hagihara D, Ishida M, Tamai K, Yamazaki K, Kawase M, Okamoto Y, Kawakami S, Okada N, Fukushima K, Nakajima K and Matsuyama S. (2015). Middle East respiratory syndrome coronavirus infection not found in camels in Japan. *Japanese Journal of Infectious Diseases*. 68(3):256-258
12. Shirato K, Ujike M, Kawase M and Matsuyama S. (2015). Identification of CCL2, RARRES2 and EFNB2 as Host Cell Factors that Influence the Multistep Replication of Respiratory Syncytial Virus. *Virus Research*. 210:213-226.
13. Rota P, Moss WJ, Takeda M, de Swart RL, Thompson KM, Goodson JL.(2016) Measles. *Nat Rev Dis Primers* 2:16049
14. Mulders MN, Rota PA, Icenogle JP, Brown KE, Takeda M, Rey GJ, Mamou MCB, Dosseh ARG, Byabamazima CR, Ahmed HJ, Pattamadilok S, Zhang Y, Gacic-Dobo M, Strebel PM, Goodson JL. (2016) Global measles and rubella laboratory network support for elimination goals, 2010-2015. *MMWR* 65:438-442
15. Kimura H, Saitoh M, Kobayashi M, Ishii H, Saraya T, Kurai D, Tsukagoshi H, Shirabe K, Nishina A, Kozawa K, Kuroda M, Takeuchi F, Sekizuka T, Minakami H, Ryo A, Takeda M. (2015) Molecular evolution of

haemagglutinin (H) gene in measles_virus. *Sci Rep.* 5:11648.

16. Yamamoto M, Matsuyama S, Li X, Takeda M, Kawaguchi Y, Inoue J, Matsuda Z. (2016) Identification of nafamostat as a potent inhibitor of Middle East respiratory syndrome (MERS) corona virus S-mediated membrane fusion using the split protein-based cell-cell fusion assay. *Antimicrob Agents Chemother* (in press)
17. Okamoto M, Miyazawa T, Morikawa S, Ono F, Nakamura S, Sato E, Yoshida T, Yoshikawa R, Sakai K, Mizutani T, Nagata N, Takano J, Okabayashi S, Hamano M, Fujimoto K, Nakaya T, Iida T, Horii T, Miyabe-Nishiwaki T, Watanabe A, Kaneko A, Saito A, Matsui A, Hayakawa T, Suzuki J, Akari H, Matsuzawa T, Hirai H. (2015) Emergence of infectious malignant thrombocytopenia in Japanese macaques (*Macaca fuscata*) by SRV-4 after transmission to a novel host. *Sci Rep.* 5:8850.
18. Sakata R, Nagita A, Kidokoro M, Kato A, Ogino K. (2015) Virus genotypes and responses of serum-specific antibodies in children with primary mumps and mumps reinfection. *Pediatr Res.* 78(5), 580-4.