

20. Pathogen Genomics Center

- 1) Nakao S, Mori S, Kondo K, Matsumoto K, Yoshikawa H, Kanda T. Monoclonal antibodies recognizing cross-neutralization epitopes in human papillomavirus 16 minor capsid protein L2. *Virology*, 434:110-117, 2012.
- 2) Kondo K, Uenoyama A, Kitagawa R, Tsunoda H, Kusumoto-Matsuo R, Mori S, Ishii Y, Takeuchi T, Kanda T, Kukimoto I. Genotype distribution of human papillomaviruses in Japanese women with abnormal cervical cytology. *Open Virol J*, 6: 277-83, 2012.
- 3) C. Eklund, O. Forslund, K. L. Wallin, T. Zhou, J. Dillner; WHO Human Papillomavirus Laboratory Network. The 2010 global proficiency study of human papillomavirus genotyping in vaccinology. *J. Clin. Microbiol.* 50(7):2289-98, 2012.
- 4) Ishii Y. Electron microscopic visualization of autophagosomes induced by infection of human papillomavirus pseudovirions. *Biochem Biophys Res Commun*, 433(4):385-9, 2013. [Epub PMID: 23537650]
- 5) Iijima S, Lee YJ, Ode H, Arold S, Kimura N, Yokoyama M, Sato H, Tanaka Y, Strebel K, Akari H. A Noncanonical mu-1A-Binding Motif in the N Terminus of HIV-1 Nef Determines Its Ability To Downregulate Major Histocompatibility Complex Class I in T Lymphocytes. *J Virol*. 86:3944-3951, 2012.
- 6) Sakuragi J, Ode H, Sakuragi S, Shioda T, Sato H. A proposal for a new HIV-1 DLS structural model. *Nuc. Acids. Res.* 40:5012-5022, 2012.
- 7) Kishida N, Fujisaki S, Yokoyama M, Sato H, Saito R, Ikematsu H, Xu H, Takashita E, Tashiro M, Takao S, Yano T, Suga T, Kawakami C, Yamamoto M, Kajiyama K, Saito H, Shimada S, Watanabe S, Aoki S, Taira K, Kon M, Lin JH, Odagiri T. Evaluation of Influenza Virus A/H3N2 and B Vaccines on the Basis of Cross-Reactivity of Postvaccination Human Serum Antibodies against Influenza Viruses A/H3N2 and B Isolated in MDCK Cells and Embryonated Hen Eggs. *Clin. Vaccine Immunol.*, 19(6):897-908, 2012.
- 8) Yokoyama M, Naganawa S, Yoshimura K, Matsushita S, Sato H. Structural Dynamics of HIV-1 Envelope 1 Gp120 Outer Domain with V3 Loop. *PLoS ONE*, 7(5): e37530, 2012.
- 9) Matsunaga S, Sawasaki T, Ode H, Morishita R, Furukawa A, Sakuma R, Sugiura W, Sato H, Katahira M, Takaori-Kondo A, Yamamoto N, Ryo A. Molecular and enzymatic characterization of XMRV protease by a cell-free proteolytic analysis. *J Proteomics*. 3;75(15):4863-4873, 2012.
- 10) Mori M, Matsuki K, Maekawa T, Tanaka M, Sriwanthana B, Yokoyama M, Ariyoshi K. Development of a Novel In Silico Docking Simulation Model for the Fine HIV-1 Cytotoxic T Lymphocyte Epitope Mapping. *PLoS ONE* 7(7): e41703, 2012.
- 11) Yokoyama M, Oka T, Kojima H, Nagano T, Okabe T, Katayama K, Wakita T, Kanda T, Sato H. Structural Basis for Specific Recognition of Substrates by Sapovirus Protease. *Front. Microbio.* 3:312, 2012. (The first two authors contributed equally)
- 12) Ode H, Nakashima M, Kitamura S, Sugiura W, Sato H. Molecular dynamics simulation in virus research. *Front Microbiol.* 3:258, 2012.
- 13) Miyamoto T, Nakayama EE, Yokoyama M, Ibe S, Takehara I S, Kono K, Yokomaku Y, Pizzato M, Luban J, Sugiura W, Sato H, and Shioda T. The carboxyl-terminus of human immunodeficiency virus type 2 circulating recombinant form 01_AB capsid protein affects sensitivity to human TRIM5 α . *PLoS ONE* 7(10): e47757, 2012.
- 14) Fujisaki S, Takashita E, Yokoyama M, Taniwaki T, Xu H, Kishida N, Sato H, Tashiro M, Imai M, Odagiri T. A single E105K mutation far from the active site of influenza B virus neuraminidase contributes to reduced susceptibility to multiple neuraminidase-inhibitor drugs. *Biochem. Biophys. Res. Commun.*, 429:51-56, 2012.
- 15) Kubo Y, Hayashi H, Matsuyama T, Sato H, Yamamoto N. Retrovirus entry by endocytosis and cathepsin proteases. *Adv Virol*. 2012:640894, 2012.
- 16) Kamiyama H, Kakoki K, Shigematsu S, Izumida M, Yashima Y, Tanaka Y, Hayashi H, Matsuyama T, Sato H, Yamamoto N, Sano T, Shidoji Y, Kubo Y. CXCR4-tropic, but not CCR5-tropic, human immunodeficiency virus infection is inhibited by the lipid raft-associated factors, acyclic retinoid analogs, and cholera toxin B subunit. *AIDS Res Hum Retroviruses*. 29:279-88, 2013.
- 17) Nomaguchi M, Yokoyama M, Kono K, Nakayama EE, Shioda T, Saito A, Akari H, Yasutomi Y, Matano T, Sato H, Adachi A. Gag-CA Q110D mutation elicits TRIM5-independent enhancement of HIV-1mt replication in macaque cells. *Microbes Infect*. 15:56-65, 2013. (The

first two authors contributed equally)

- 18) Nomaguchi M, Doi N, Fujiwara S, Saito A, Akari H, Nakayama EE, Shioda T, Yokoyama M, Sato H, Adachi A. Systemic biological analysis of the mutations in two distinct HIV-1mt genomes occurred during replication in macaque cells. *Microbes Infect.*, 15:319-328, 2013.
- 19) Sato H, Yokoyama M, Toh H. Genomics and computational science for virus research. *Front. Microbio.*, 4:42, 2013.
- 20) Kawai T, Sekizuka T, Yahata Y, Kuroda M, Kumeda Y, Iijima Y, Kamata Y, Sugita-Konishi Y, Ohnishi T. Identification of *Kudoa septempunctata* as the causative agent of novel food poisoning outbreaks in Japan by consumption of *Paralichthys olivaceus* in raw fish. *Clin Infect Dis.* 2012 Apr;54(8):1046-52.
- 21) Kuroda M, Sekizuka T, Shinya F, Takeuchi F, Kanno T, Sata T, Asano S. Detection of a possible bioterrorism agent, *Francisella* sp., in a clinical specimen by use of next-generation direct DNA sequencing. *J Clin Microbiol.* 2012 May;50(5):1810-2.
- 22) Sekizuka T, Yamamoto A, Komiya T, Kenri T, Takeuchi F, Shibayama K, Takahashi M, Kuroda M, Iwaki M. *Corynebacterium ulcerans* 0102 carries the gene encoding diphtheria toxin on a prophage different from the *C. diphtheriae* NCTC 13129 prophage. *BMC Microbiol.* 2012 May 14;12:72.
- 23) Katano H, Sato S, Sekizuka T, Kinumaki A, Fukumoto H, Sato Y, Hasegawa H, Morikawa S, Saijo M, Mizutani T, Kuroda M. Pathogenic characterization of a cervical lymph node derived from a patient with Kawasaki disease. *Int J Clin Exp Pathol.* 2012;5(8):814-23.
- 24) Mizuta K, Kuroda M, Kurimura M, Yahata Y, Sekizuka T, Aoki Y, Ikeda T, Abiko C, Noda M, Kimura H, Mizutani T, Kato T, Kawanami T, Ahiko T. Epidemic myalgia in adults associated with human parechovirus type 3 infection, Yamagata, Japan, 2008. *Emerg Infect Dis.* 2012 Nov;18(11):1787-93..
- 25) Matsuo J, Nakamura S, Ito A, Yamazaki T, Ishida K, Hayashi Y, Yoshida M, Takahashi K, Sekizuka T, Takeuchi F, Kuroda M, Nagai H, Hayashida K, Sugimoto C, Yamaguchi H. *Protochlamydia* induces apoptosis of human HEp-2 cells through mitochondrial dysfunction mediated by chlamydial protease-like activity factor. *PLoS One.* 2013;8(2):e56005. doi: 10.1371/journal.pone.0056005. Epub 2013 Feb 11.
- 26) Chieko Sakano, Makoto Kuroda, Tsuyoshi Sekizuka, Taisei Ishioka, Yukio Morita, Akihide Ryo, Hiroyuki Tsukagoshi, Yuko Kawai, Nobuko Inoue, Hayato Takada, Yumiko Ogasawara, Atsuyoshi Nishina, Masa-aki Shimoda, Kunihisa Kozawa, Kazunori Oishi, Hirokazu Kimura. (2012) Genetic analysis of non-hydrogen sulfide-producing *Salmonella enterica* serovar Typhimurium and Infantis isolates in Japan. *J. Clinical Microbio.* 2013 Jan;51(1):328-30. doi: 10.1128/JCM.02225-12. Epub 2012 Nov 7.
- 27) Mika Saitoh, Makoto Takeda, Koichi Gotoh, Fumihiko Takeuchi, Tsuyoshi Sekizuka, Makoto Kuroda, Katsumi Mizuta, Akihide Ryo, Ryota Tanaka, Haruyuki Ishii, Hayato Takada, Kunihisa Kozawa, Ayako Yoshida, Masahiro Noda, Nobuhiko Okabe, and Hirokazu Kimura. (2012) Molecular Evolution of Hemagglutinin (H) Gene in Measles virus Genotypes D3, D5, D9, and H1. *PLoS One.* 2012;7(11):e50660. doi: 10.1371/journal.pone.0050660. Epub 2012 Nov 29.
- 28) Noriyuki Otsuki, Tsuyoshi Sekizuka, Fumio Seki, Kouji Sakai, Toru Kubota, Yuichiro Nakatsu, Surui Chen, Hideo Fukuhara, Katsumi Maenaka, Ryoji Yamaguchi, Makoto Kuroda, Makoto Takeda. (2012) Canine Distemper Virus with the Intact C Protein Has the Potential to Replicate in Human Epithelial Cells by Using Human Nectin4 as a Receptor. *Virology.* 2013 Jan 20;435(2):485-92. doi: 10.1016/j.virol.2012.10.033. Epub 2012 Nov 19.