

20. Pathogen Genomics Center

- 1) Kukimoto I, Maehama T, Sekizuka T, Ogasawara Y, Kondo K, Kusumoto-Matsuo R, Mori S, Ishii Y, Takeuchi T, Yamaji T, Takeuchi F, Hanada K and Kuroda M. Genetic Variation of Human Papillomavirus Type 16 in Individual Clinical Specimens Revealed by Deep Sequencing. *PLoS One*, 8: e80583, 2013.
- 2) Ishii Y, Nakahara T, Kataoka M, Kusumoto-Matsuo R, Mori S, Takeuchi T and Kukimoto I. Identification of TRAPPC8 as a Host Factor Required for Human Papillomavirus Cell Entry. *PLoS One*, 8: e80297, 2013.
- 3) Wang Z, Wakae K, Kitamura K, Aoyama S, Liu G, Koura M, Monjurul A, Kukimoto I and Muramatsu M. APOBEC3 deaminases induce hypermutation in human papillomavirus type 16 DNA upon β -interferon stimulation. *J. Virol*, 88: 1308-1317, 2014.
- 4) Kusumoto-Matsuo R, Ghosh D, Karmakar P, May A, Ramsden D and Bohr VA. Serines 440 and 467 in the Werner syndrome protein are phosphorylated by DNA-PK and affects its dynamics in response to DNA double strand breaks. *Aging*, 6: 70-81, 2014.
- 5) Mori S, Kusumoto-Matsuo R, Ishii Y, Takeuchi T and Kukimoto I. Replication interference between human papillomavirus types 16 and 18 mediated by heterologous E1 helicases. *Virology J*, 11: 11, 2014.
- 6) Fujisaki S, Imai M, Takashita E, Taniwaki T, Xu H, Kishida N, Yokoyama M, Sato H, Tashiro M, Odagiri T. Mutations at the monomer–monomer interface away from the active site of influenza B virus neuraminidase reduces susceptibility to neuraminidase inhibitor drugs. *J. Infect. Chemother.*, 2013.
- 7) Kuwata T, Takaki K, Yoshimura K, Enomoto I, Wu F, Ourmanov I, Hirsch VM, Yokoyama M, Sato H, Matsushita S. Conformational epitope consisting of the V3 and V4 loops as a target for potent and broad neutralization of simian immunodeficiency viruses. *J. Virol.*, 87(10):5424-36, 2013.
- 8) Saito A, Nomaguchi M, Kono K, Iwatani Y, Yokoyama M, Yasutomi Y, Sato H, Shioda T, Sugiura W, Matano T, Adachi A, Nakayama EE, Akari H. *TRIM5* genotypes in cynomolgus monkeys primarily influence inter-individual diversity in susceptibility to monkey-tropic human immunodeficiency virus type 1. *J. Gen. Virol.*, 94:1318-1324, 2013.
- 9) Yuan Y, Yokoyama M, Maeda Y, Terasawa H, Harada S, Sato H, Yusa K. Structure and Dynamics of the gp120 V3 Loop That Confers Noncompetitive Resistance in R5 HIV-1_{JR-FL} to Maraviroc. *PLoS ONE*, 8(6): e65115, 2013.
- 10) Tsuchiya K, Ode H, Hayashida T, Kakizawa J, Sato H, Oka S, Gatanaga H. Arginine insertion and loss of N-linked glycosylation site in HIV-1 envelope V3 region confer CXCR4-tropism. *Sci Rep.* 3:2389, 2013.
- 11) Nomaguchi M, Yokoyama M, Kono K, Nakayama EE, Shioda T, Doi N, Fujiwara S, Saito A, Akari H, Miyakawa K, Ryo A, Ode H, Iwatani Y, Miura T, Igarashi T, Sato H, Adachi A. Generation of rhesus macaque-tropic HIV-1 clones that are resistant to major anti-HIV-1 restriction factors. *J. Virol.*, 87(21):11447-11461, 2013. (The first two authors contributed equally)
- 12) Koyama T, Arias JF, Iwabu Y, Yokoyama M, Fujita H, Sato H, Tokunaga K. APOBEC3G Oligomerization Is Associated with the Inhibition of Both Alu and LINE-1 Retrotransposition. *PLoS ONE*, 8(12): e84228, 2013.
- 13) Burwitz B, Wu H, Reed J, Hammond K, Newman L, Bimber B, Nimiyongskul F, Leon E, Maness N, Friedrich T, Yokoyama M, Sato H, Matano T, O'Connor D, Sacha J. Tertiary mutations stabilize CD8+ T lymphocyte escape-associated compensatory mutations following transmission of simian immunodeficiency virus. *J. Virol.*, 88(6):3598-3604, 2014.
- 14) Motozono C, Yokoyama M, Sato H, Ueno T. Cross-reactivity analysis of T cell receptors specific for overlapping HIV-1 Nef epitopes of different lengths. *Microbes Infect.*, 16:320-327, 2014.
- 15) Kudoh A, Takahama S, Sawasaki T, Ode H, Yokoyama M, Okayama A, Ishikawa A, Miyakawa K, Matsunaga S, Kimura H, Sugiura W, Sato H, Hirano H, Ohno S, Yamamoto N, Akihida Ryo. The phosphorylation of HIV-1 Gag by atypical protein kinase C facilitates viral infectivity by promoting Vpr incorporation into virions. *Retrovirology*, 11:9, 2014.
- 16) Uda A, Sekizuka T, Tanabayashi K, Fujita O, Kuroda M, Hotta A, Sugiura N, Sharma N, Morikawa S, Yamada A. Role of pathogenicity determinant protein C (PdpC) in determining the virulence of the *Francisella tularensis* subspecies *tularensis* SCHU. *PLoS One*. 2014 Feb 18;9(2):e89075.
- 17) Otsuki N, Nakatsu Y, Kubota T, Sekizuka T, Seki F, Sakai K, Kuroda M, Yamaguchi R, Takeda M. The V

- protein of canine distemper virus is required for virus replication in human epithelial cells. *PLoS One*. 2013 Dec 17;8(12):e82343.
- 18) Nakanaga K, Sekizuka T, Fukano H, Sakakibara Y, Takeuchi F, Wada S, Ishii N, Makino M, Kuroda M, Hoshino Y. Discrimination of *Mycobacterium abscessus* subsp. *massiliense* from *Mycobacterium abscessus* subsp. *abscessus* in clinical isolates by multiplex PCR. *J Clin Microbiol*. 2014 Jan;52(1):251-9.
- 19) Rimbara E, Matsui M, Mori S, Suzuki S, Suzuki M, Kim H, Sekizuka T, Kuroda M, Shibayama K. Draft Genome Sequence of *Helicobacter fennelliae* Strain MRY12-0050, Isolated from a Bacteremia Patient. *Genome Announc*. 2013 Aug 8;1(4). pii: e00512-13. doi: 10.1128/genomeA.00512-13.
- 20) Kai M, Nakata N, Matsuoka M, Sekizuka T, Kuroda M, Makino M. Characteristic mutations found in the ML0411 gene of *Mycobacterium leprae* isolated in Northeast Asian countries. *Infect Genet Evol*. 2013 Oct;19:200-4.
- 21) 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.
- 22) Takeuchi F, Sekizuka T, Yamashita A, Ogasawara Y, Mizuta K, Kuroda M. MePIC, Metagenomic Pathogen Identification for Clinical Specimens. *Japanese Journal of Infectious Diseases*. 67(1):62-65, 2014.
- 23) Yamashita A, Sekizuka T, Kuroda M. Characterization of Antimicrobial Resistance Dissemination across Plasmid Communities Classified by Network Analysis. *Pathogens*. 3(2):356-376, 2014
- 24) Mather AE, Reid SW, Maskell DJ, Parkhill J, Fookes MC, Harris SR, Brown DJ, Coia JE, Mulvey MR, Gilmour MW, Petrovska L, de Pinna E, Kuroda M, Akiba M, Izumiya H, Connor TR, Suchard MA, Lemey P, Mellor DJ, Haydon DT, Thomson NR. Distinguishable epidemics of multidrug-resistant *Salmonella* Typhimurium DT104 in different hosts. *Science*. 2013 Sep 27;341(6153):1514-7.
- 25) Mizuta K, Yamakawa T, Nagasawa H, Itagaki T, Katsushima F, Katsushima Y, Shimizu Y, Ito S, Aoki Y, Ikeda T, Abiko C, Kuroda M, Noda M, Kimura H, Ahiko T. Epidemic myalgia associated with human parechovirus type 3 infection among adults occurs during an outbreak among children: findings from Yamagata, Japan, in 2011. *J Clin Virol*. 2013 Sep;58(1):188-93.
- 26) Tsukagoshi H, Yokoi H, Kobayashi M, Kushibuchi I, Okamoto-Nakagawa R, Yoshida A, Morita Y, Noda M, Yamamoto N, Sugai K, Oishi K, Kozawa K, Kuroda M, Shirabe K, Kimura H. Genetic analysis of attachment glycoprotein (G) gene in new genotype ON1 of human respiratory syncytial virus detected in Japan. *Microbiol Immunol*. 2013 Sep;57(9):655-9.
- 27) Kushibuchi I, Kobayashi M, Kusaka T, Tsukagoshi H, Ryo A, Yoshida A, Ishii H, Saraya T, Kurai D, Yamamoto N, Kanou K, Saitoh M, Noda M, Kuroda M, Morita Y, Kozawa K, Oishi K, Tashiro M, Kimura H. Molecular evolution of attachment glycoprotein (G) gene in human respiratory syncytial virus detected in Japan 2008-2011. *Infect Genet Evol*. 2013 Aug;18:168-73.