

19. Pathogen Genomics Center

- 1) Kawai S, Fujii T, Kukimoto I, Yamada H, Yamamoto N, Kuroda M, Otani S, Ichikawa R, Nishio E, Torii Y, Iwata A. Identification of miRNAs in cervical mucus as a novel diagnostic marker for cervical neoplasia. *Sci Rep*, 2018 May 4;8(1):7070.
- 2) Takeuchi F, Kukimoto I, Li Z, Li S, Li N, Hu Z, Takahashi A, Inoue S, Yokoi S, Chen J, Hang D, Kuroda M, Matsuda F, Mizuno M, Mori S, Wu P, Tanaka N, Matsuo K, Kamatani Y, Kubo M, Ma D, Shi Y. Genome-wide association study of cervical cancer suggests a role for ARRDC3 gene in human papillomavirus infection. *Hum Mol Genet*, 2019 Jan 15;28(2):341-348.
- 3) Masuda Y, Kanao R, Kawai H, Kukimoto I, Masutani C. Preferential digestion of PCNA-ubiquitin and p53-ubiquitin linkages by USP7 to remove polyubiquitin chains from substrates. *J Biol Chem*, 2019, 294(11):4177-4187.
- 4) Iwata-Yoshikawa N, Okamura T, Shimizu Y, Kotani O, Sato H, Sekimukai H, Fukushi S, Suzuki T, Sato Y, Takeda M, Tashiro M, Hasegawa H, Nagata N. Acute Respiratory Infection in Human Dipeptidyl Peptidase 4-Transgenic Mice Infected with Middle East Respiratory Syndrome Coronavirus. *J Virol*. 93: e01818-18, 2018.
- 5) Doi N, Yokoyama M, Koma T, Kotani O, Sato H, Adachi A, Nomaguchi M. Concomitant Enhancement of HIV-1 Replication Potential and Neutralization-Resistance in Concert with Three Adaptive Mutations in Env V1/C2/C4 Domains. *Front Microbiol*. 2018.
- 6) Fujii K, Sudaka Y, Takashino A, Kobayashi K, Kataoka C, Suzuki T, Iwata-Yoshikawa N, Kotani O, Ami Y, Shimizu H, Nagata N, Mizuta K, Matsuzaki Y, Koike S. VP1 amino acid residue 145 of enterovirus 71 is a key residue for its receptor attachment and resistance to neutralizing antibody during cynomolgus monkey infection. *J Virol*. 92: e00682-18, 2018.
- 7) Siarot L, Chutiwittoonchai N, Sato H, Chang H, Sato H, Fujino M, Murakami T, Aono T, Kodama E, Kuroda K, Takei M, Aida Y. Identification of human immunodeficiency virus type-1 Gag-TSG101 interaction inhibitors by high-throughput screening. *Biochem Biophys Res Commun*. 503:2970-2976, 2018.
- 8) Kawata T, Tada K, Kobayashi M, Sakamoto T, Takiuchi Y, Iwai F, Sakurada M, Hishizawa M, Shirakawa K, Shindo K, Sato H, Takaori-Kondo A. Dual inhibition of the mTORC1 and mTORC2 signaling pathways is a promising therapeutic target for adult T-cell leukemia. *Cancer Sci*. J109:103-111, 2018.
- 9) Iwamoto T, Murase Y, Yoshida S, Aono A, Kuroda M, Sekizuka T, Yamashita A, Kato K, Takii T, Arikawa K, Kato S, Mitarei S. Overcoming the pitfalls of automatic interpretation of whole genome sequencing data by online tools for the prediction of pyrazinamide resistance in *Mycobacterium tuberculosis*. *PLoS One*. 2019 Feb 28;14(2):e0212798.
- 10) Yamaji T, Sekizuka T, Tachida Y, Sakuma C, Morimoto K, Kuroda M, Hanada K. A CRISPR Screen Identifies LAPTm4A and TM9SF Proteins as Glycolipid-Regulating Factors. *iScience*. 2019 Jan 25;11:409-424.
- 11) Sekizuka T, Matsui M, Takahashi T, Hayashi M, Suzuki S, Tokaji A, Kuroda M. Complete Genome Sequence of bla (IMP-6)-Positive *Metakosakonia* sp. MRY16-398 Isolate From the Ascites of a Diverticulitis Patient. *Front Microbiol*. 2018 Nov 22;9:2853.
- 12) Segawa T, Sekizuka T, Suzuki S, Shibayama K, Matsui M, Kuroda M. The plasmid-encoded transcription factor ArdK contributes to the repression of the IMP-6 metallo-β-lactamase gene *blaIMP-6*, leading to a carbapenem-susceptible phenotype in the *blaIMP-6*-positive *Escherichia coli* strain A56-1S. *PLoS One*. 2018 Dec 11;13(12):e0208976.
- 13) Kuroda M, Sekizuka T, Matsui H, Suzuki K, Seki H, Saito M, Hanaki H. Complete Genome Sequence and Characterization of Linezolid-Resistant *Enterococcus faecalis* Clinical Isolate KUB3006 Carrying a *cfr(B)*-Transposon on Its Chromosome and *optrA*-Plasmid. *Front Microbiol*. 2018 Oct 25;9:2576.
- 14) Sekizuka T, Yatsu K, Inamine Y, Segawa T, Nishio M, Kishi N, Kuroda M. Complete Genome Sequence of a *blaKPC-2*-Positive *Klebsiella pneumoniae* Strain Isolated from the Effluent of an Urban Sewage Treatment Plant in Japan. *mSphere*. 2018 Sep 19;3(5). pii: e00314-18.
- 15) Ito T, Sekizuka T, Kishi N, Yamashita A, Kuroda M. Conventional culture methods with commercially available media unveil the presence of novel culturable bacteria. *Gut Microbes*. 2019;10(1):77-91.

- 16) Hayashi T, Tsukagoshi H, Sekizuka T, Ishikawa D, Imai M, Fujita M, Kuroda M, Saruki N. Next-generation DNA sequencing analysis of two *Streptococcus suis* ST28 isolates associated with human infective endocarditis and meningitis in Gunma, Japan: a case report. *Infect Dis (Lond)*. 2019 Jan;51(1):62-66.
- 17) Kubota H, Uwamino Y, Matsui M, Sekizuka T, Suzuki Y, Okuno R, Uchitani Y, Ariyoshi T, Aoki W, Suzuki S, Kuroda M, Shinkai T, Yokoyama K, Sadamasu K, Funakoshi T, Murata M, Hasegawa N, Iwata S. FRI-4 carbapenemase-producing *Enterobacter cloacae* complex isolated in Tokyo, Japan. *J Antimicrob Chemother*. 2018 Nov 1;73(11):2969-2972.
- 18) Nanbo A, Katano H, Kataoka M, Hoshina S, Sekizuka T, Kuroda M, Ohba Y. Infection of Epstein-Barr Virus in Type III Latency Modulates Biogenesis of Exosomes and the Expression Profile of Exosomal miRNAs in the Burkitt Lymphoma Mutu Cell Lines. *Cancers (Basel)*. 2018 Jul 19;10(7). pii: E237.
- 19) Morimoto K, Aono A, Murase Y, Sekizuka T, Kurashima A, Takaki A, Sasaki Y, Igarashi Y, Chikamatsu K, Goto H, Yamada H, Kuroda M, Mitarai S. Prevention of aerosol isolation of nontuberculous mycobacterium from the patient's bathroom. *ERJ Open Res*. 2018 Jul 3;4(3). pii: 00150-2017.
- 20) Nakada-Tsukui K, Sekizuka T, Sato-Ebne E, Escueta-de Cadiz A, Ji DD, Tomii K, Kuroda M, Nozaki T. AIG1 affects in vitro and in vivo virulence in clinical isolates of *Entamoeba histolytica*. *PLoS Pathog*. 2018 Mar 19;14(3):e1006882.
- 21) Shigemura H, Matsui M, Sekizuka T, Onozuka D, Noda T, Yamashita A, Kuroda M, Suzuki S, Kimura H, Fujimoto S, Oishi K, Sera N, Inoshima Y, Murakami K. Decrease in the prevalence of extended-spectrum cephalosporin-resistant *Salmonella* following cessation of ceftiofur use by the Japanese poultry industry. *Int J Food Microbiol*. 2018 Jun 2;274:45-51.
- 22) Ozaki K, Matsushima Y, Nagasawa K, Motoya T, Ryo A, Kuroda M, Katayama K, Kimura H. Molecular Evolutionary Analyses of the RNA-Dependent RNA Polymerase Region in Norovirus Genogroup II. *Front Microbiol*. 2018 Dec 18;9:3070.
- 23) Ashizuka Y, Nakamura A, Yoshitomi H, Kobayashi T, Kajiwara J, Katsuki S, Kuroda M. Study on the Outbreak of Human Rhinovirus Species C Infection in a Welfare Facility in Fukuoka Prefecture, Japan. *Jpn J Infect Dis*. 2018 Nov 22;71(6):479-481.
- 24) Muthuirulandi Sethuvel DP, Anandan S, Devanga Ragupathi NK, Gajendiran R, Kuroda M, Shibayama K, Veeraraghavan B. IncFII plasmid carrying antimicrobial resistance genes in *Shigella flexneri*: Vehicle for dissemination. *J Glob Antimicrob Resist*. 2019 Mar;16:215-219.
- 25) Lin YC, Kuroda M, Suzuki S, Mu JJ. Emergence of an *Escherichia coli* strain co-harbouring *mcr-1* and *bla(NDM-9)* from a urinary tract infection in Taiwan. *J Glob Antimicrob Resist*. 2019 Mar;16:286-290.
- 26) Alshahni MM, Yamada T, Yo A, Murayama SY, Kuroda M, Hoshino Y, Ishikawa J, Watanabe S, Makimura K. Insight into the draft whole-genome sequence of the dermatophyte *Arthroderma vanbreuseghemii*. *Sci Rep*. 2018 Oct 11;8(1):15127.
- 27) Larsson DGJ, Andremont A, Bengtsson-Palme J, Brandt KK, de Roda Husman AM, Fagerstedt P, Fick J, Flach CF, Gaze WH, Kuroda M, Kvint K, Laxminarayan R, Manaia CM, Nielsen KM, Plant L, Ploy MC, Segovia C, Simonet P, Smalla K, Snape J, Topp E, van Hengel AJ, Verner-Jeffreys DW, Virta MPJ, Wellington EM, Wernersson AS. Critical knowledge gaps and research needs related to the environmental dimensions of antibiotic resistance. *Environ Int*. 2018 Aug;117:132-138.
- 28) Takahashi M, Nagasawa K, Saito K, Maisawa SI, Fujita K, Murakami K, Kuroda M, Ryo A, Kimura H. Detailed genetic analyses of the HN gene in human respirovirus 3 detected in children with acute respiratory illness in the Iwate Prefecture, Japan. *Infect Genet Evol*. 2018 Apr;59:155-162.