

4. Department of Bacteriology I

- 1) [Sudo N](#), Soma A, [Iyoda S](#), Oshima T, Ohto Y, Saito K, Sekine Y. Small RNA Esr41 inversely regulates expression of LEE and flagellar genes in enterohaemorrhagic *Escherichia coli*. *Microbiology*. 2018 May; 164(5): 821-834. doi: 10.1099/mic.0.000652.
- 2) Banjo M, Iguchi A, Seto K, Kikuchi T, Harada T, Scheutz F, [Iyoda S](#); Pathogenic *E. coli* Working Group in Japan. *Escherichia coli* H-genotyping PCR; a complete and practical platform for molecular H-typing. *J Clin Microbiol*. 2018 pii: JCM.00190-18. doi: 10.1128/JCM.00190-18.
- 3) [Lee K](#), [Nakayama S](#), Osawa K, Yoshida H, Arakawa S, Furubayashi K, Kameoka H, [Shimuta K](#), Kawahata T, Unemo M, [Ohnishi M](#). Clonal expansion and spread of the ceftriaxone-resistant *Neisseria gonorrhoeae* strain FC428, identified in Japan in 2015, and closely related isolates. 2019. *J. Antimicrob. Chemother.* 74:1812-1819.
- 4) Lahra MM, Martin I, Demczuk W, Jennison A. V, [Lee K](#), [Nakayama S](#), Lefebvre B, Longtin J, Ward A, Mulvey M. R, Wi T, [Ohnishi M](#), Whiley D. Cooperative recognition of internationally disseminated ceftriaxone-resistant *Neisseria gonorrhoeae* strain. 2018. *Emerg. Infect. Dis.* 24:735-740.
- 5) Yahara K, [Nakayama S](#), [Shimuta K](#), Lee K, [Morita M](#), Kawahata T, Kuroki T, Watanabe Y, Ohya H, Yasuda M, Deguchi T, Didelot X, [Ohnishi M](#). Genomic surveillance of *Neisseria gonorrhoeae* to investigate the distribution and evolution of antimicrobial-resistance determinants and lineages. 2018. *Microbial genomics* 2018 Aug;4(8). doi: 10.1099/mgen.0.000205.
- 6) [Yamamoto S](#), [Lee K](#), [Morita M](#), [Arakawa E](#), [Izumiya H](#), [Ohnishi M](#). Single circular chromosome identified from the genome sequence of the *Vibrio cholerae* O1 bv. El Tor Ogawa strain V060002. *Genome Announc.* 2018 Jun 21;6(25). pii: e00564-18.
- 7) Matsukawa M, Igarashi M, Watanabe H, Qin L, [Ohnishi M](#), Terajima J, [Iyoda S](#), [Morita-Ishihara T](#), Tateda K, Ishii Y, Saga T, Aoki K, Bonomo RA. Epidemiology and genotypic characterisation of dissemination patterns of uropathogenic *Escherichia coli* in a community. *Epidemiol Infect.* 2019;147:e148.
- 8) Arai N, Sekizuka T, Tamamura Y, Tanaka K, Barco L, [Izumiya H](#), Kusumoto M, Hinenoya A, Yamasaki S, Iwata T, Watanabe A, Kuroda M, Uchida I, Akiba M. Phylogenetic Characterization of *Salmonella enterica* Serovar Typhimurium and Its Monophasic Variant Isolated from Food Animals in Japan Revealed Replacement of Major Epidemic Clones in the Last 4 Decades. *J Clin Microbiol.* 2018 Apr 25;56(5). pii: e01758-17.
- 9) Laviad-Shitrit S, Izhaki I, [Arakawa E](#), Halpern M Wild waterfowl as potential vectors of *Vibrio cholerae* and *Aeromonas* species. *Trop Med Int Health.* 2018 Jul;23(7):758-764.
- 10) [Amemura-Maekawa J](#), Kura F, Chida K, Ohya H, Kanatani JI, Isobe J, Tanaka S, Nakajima H, Hiratsuka T, Yoshino S, Sakata M, Murai M, [Ohnishi M](#); Working Group for Legionella in Japan. *Legionella pneumophila* and other *Legionella* species isolated from legionellosis patients in Japan between 2008 and 2016. *Appl Environ Microbiol.* 2018. e00721-18.
- 11) [Chang B](#), [Morita M](#), [Lee K](#), [Ohnishi M](#). Whole-genome sequence analysis of *Streptococcus pneumoniae* strains that cause hospital-acquired pneumonia infections. *Journal of Clinical Microbiology.* 2018. 56:e01822-17.
- 12) Miyahara R, Suzuki M, Morimoto K, [Chang B](#), Yoshida S, Yoshinaga S, Kitamura M, Chikamori M, Oishi K, Kitamura T, Ishida M. Nosocomial outbreak of upper respiratory tract infection with β -lactamase-negative ampicillin-resistant nontypeable *Haemophilus influenzae*. *Infection Control & Hospital Epidemiology.* 2018. 3:1-8.
- 13) Yanase T, Morii D, Kamio S, Nishimura A, Fukao E, Inose Y, Honma Y, Kitahara N, Yokozawa T, [Chang B](#), Oda T. The first report of human meningitis and pyogenic ventriculitis caused by *Streptococcus suis*: A case report. *Journal of Infection and Chemotherapy.* 2018. 24:669-673.
- 14) Ikuse T, Habuka R, Wakamatsu Y, Nakajima T, Saitoh N, Yoshida H, [Chang B](#), [Morita M](#), [Ohnishi M](#), Oishi K, Saitoh A. Local outbreak of *Streptococcus pneumoniae* serotype 12F caused high morbidity and mortality among children and adults. *Epidemiology and Infection.* 2018. 146:1793-1796.
- 15) Takeda H, Sato C, [Chang B](#), Tsuchida F, Watanabe M, Yamamoto Y, Morita M, Oishi K, Suzuki H. Ten-year transition of pneumococcal vaccine coverage rates and bacterial serotype distribution in adult cases of non-invasive pneumococcal pneumonia. *Journal of Global Infectious Diseases.* 2019. 11:30-35.
- 16) Shimbashi R, [Chang B](#), Tanabe Y, Takeda H, Watanabe H, Kubota T, Kasahara K, Oshima K, Nishi J, Maruyama T, Kuronuma K, Fujita J, Ikuse T, Kinjo Y, Suzuki M, Kerdsin A, Shimada T, Fukusumi M, Tanaka-Taya K, Matsui T, Sunagawa

- T, [Ohnishi M](#), Oishi K, and the Adult IPD Study Group. Epidemiological and clinical features of invasive pneumococcal disease caused by serotype 12F in adults, Japan. *PLOS One*. 2019. 14:e0212418.
- 17) [Chang B](#), [Morita M](#), [Lee K](#), [Ohnishi M](#). Complete genome sequence of a sequence type 4846 *Streptococcus pneumoniae* serotype 12F strain isolated from a meningitis case in Japan. *Microbiology Resource Announcements*. 2019.14:e01632-18.
- 18) [Hadano Y](#), [Chang B](#). Sacroiliitis and osteomyelitis caused by serotype 3 *Streptococcus pneumoniae* in a previously healthy adult: a case report. *Infection and Drug Resistance*. 2018. 11:1043-1046.
- 19) [Goda K](#), [Kenzaka T](#), [Chang B](#), [Akita H](#). Two cases of pneumococcal spondylitis in the same household: a case report. *BMC Infectious Diseases*. 2018. 18:666.
- 20) [Imai T](#), [Matsumura T](#), [Mayer-Lambertz S](#), [Wells CA](#), [Ishikawa E](#), [Butcher SK](#), [Barnett TC](#), [Walker MJ](#), [Imamura A](#), [Ishida H](#), [Ikebe T](#), [Miyamoto T](#), [Ato M](#), [Ohga S](#), [Lepencies B](#), [van Sorge NM](#), [Yamasaki S](#). Lipoteichoic acid anchor triggers Mincle to drive protective immunity against invasive group A *Streptococcus* infection. *Proc Natl Acad Sci USA* 2018, 115 (45) E10662-E10671.
- 21) [Gaowa](#), [Wulantuya W](#), [Yin X](#), [Guo S](#), [Ding C](#), [Cao M](#), [Kawabata H](#), [Sato K](#), [Ando S](#), [Fujita H](#), [Kawamori F](#), [Su H](#), [Shimada Y](#), [Masuda S](#), [Ohashi N](#). Spotted fever group *Rickettsia* in Inner Mongolia, China. *Emerging Infectious Diseases*. 2018. 24(11): 2105-2107.
- 22) [Hayashi T](#), [Miura Y](#), [Kawabata H](#). *Borrelia miyamotoi* disease rash. *Internal Medicine*. 2018. 57(17): 2601-2602.
- 23) [Sato K](#), [Sakakibara K](#), [Masuzawa T](#), [Ohnishi M](#), [Kawabata H](#). Case control study: Serological evidence that *Borrelia miyamotoi* disease is distributed nationwide in Japan. *Journal of Infection and Chemotherapy*. 2018. 24(10): 828-833.
- 24) [Yoshii K](#), [Sato K](#), [Ishizuka M](#), [Kobayashi S](#), [Kariwa H](#), [Kawabata H](#). Serologic evidence of Tick-borne encephalitis virus infection in a patient with suspected Lyme disease in Japan. *American Journal of Tropical Medicine and Hygiene*. 2018. 99(1): 180-181.
- 25) [Seki M](#), [Watanabe Y](#), [Kawabata H](#). A case of Lyme disease in a Japanese woman. *Infection and Drug Resistance*. 2018. 11: 625-628.
- 26) [Kumagai Y](#), [Sato K](#), [Taylor KR](#), [Zamoto-Niikura A](#), [Imaoka K](#), [Morikawa S](#), [Ohnishi M](#), [Kawabata H](#). A Relapsing fever group *Borrelia* sp. is widely distributed among wild deer in Japan. *Ticks and Tick-borne Diseases*. 2018. 9(3): 465-470.
- 27) [Gaowa](#), [Wulantuya W](#), [Yin X](#), [Cao M](#), [Guo S](#), [Ding C](#), [Kawabata H](#), [Ando S](#), [Su H](#), [Shimada M](#), [Takamoto N](#), [Shimamura Y](#), [Masuda S](#), [Ohashi N](#). Human Infection with *Anaplasma phagocytophilum* in Inner Mongolia, China. *Japanese Journal of Infectious Diseases*. 2018. 71(2): 155-157.
- 28) [Ito K](#), [Taniguchi H](#), [Ohtake N](#), [Ando S](#), [Kawabata H](#). A first case of tick bite by *Amblyomma coelebs* in Japan. *Journal of Dermatology*. 2018. 45(2): 243-244.
- 29) [Shinozuka J](#), [Takahashi H](#), [Mori M](#), [Awaguni H](#), [Imashuku S](#). Bacteremia and meningitis caused by a novel clone of *Neisseria meningitidis* serogroup B. *Pediatrics International* doi:10.1111/ped.13718, 2018.
- 30) [Takahash H](#), [Watanabe H](#), [Kim KS](#), [Yokoyama S](#), [Yanagisawa T](#). The meningococcal cysteine transport system plays a crucial role in *Neisseria meningitidis* survival in human brain microvascular endothelial cells. *mBio* 9:e02332-18, 2018
- 31) [Masuzawa T](#), [Saito M](#), [Nakao R](#), [Nikaido Y](#), [Matsumoto M](#), [Ogawa M](#), [Yokoyama M](#), [Hidaka Y](#), [Tomita J](#), [Sakakibara K](#), [Suzuki K](#), [Yasuda S](#), [Sato H](#), [Yamaguchi M](#), [Yoshida S](#), [Koizumi N](#), [Kawamura Y](#). Molecular and phenotypic characterization of *Leptospira johnsonii* sp. nov., *Leptospira ellinghausenii* sp. nov., and *Leptospira ryugenii* sp. nov. isolated from soil and water in Japan. *Microbiol Immunol*. 63(3-4):89-99, 2019.
- 32) [Nisansala GGT](#), [Muthusinghe D](#), [Gunasekara TDCP](#), [Weerasekera MM](#), [Fernando SSN](#), [Ranasinghe KNP](#), [Marasinghe MGCP](#), [Fernando PS](#), [Koizumi N](#), [Gamage CD](#). Isolation and characterization of *Leptospira interrogans* from two patients with leptospirosis in Western province, Sri Lanka. *J Med Microbiol*. 67 (9):1249-1252, 2018.
- 33) [Tahara H](#), [Takabe K](#), [Sasaki Y](#), [Kasuga K](#), [Kawamoto A](#), [Koizumi N](#), [Nakamura S](#). The mechanism of two-phase motility in the spirochete *Leptospira*: Swimming and crawling. *Sci Adv*. 4: eaar7975, 2018.
- 34) [Toma C](#), [Koizumi N](#), [Kakita T](#), [Yamaguchi T](#), [Hermawan I](#), [Higa N](#), [Yamashiro T](#). Leptospiral 3-hydroxyacyl-CoA dehydrogenase as an early urinary biomarker of leptospirosis. *Heliyon* 4(4): e00616, 2018.
- 35) [Sasaki Y](#), [Kawamoto A](#), [Tahara H](#), [Kasuga K](#), [Sato R](#), [Ohnishi M](#), [Nakamura S](#), [Koizumi N](#). Leptospiral flagellar sheath protein FcpA interacts with FlaA2 and FlaB1 in *Leptospira biflexa*. *PLoS ONE* 13(4): e0194923, 2018.
- 36) [Hijikata S](#), [Hongo I](#), [Nakayama S](#), [Yamaguchi T](#), [Sekikawa Y](#), [Nozato T](#). Infective endocarditis due to *Treponema pallidum*: A case diagnosed by polymerase chain reaction analysis of aortic valve. *Canadian Journal of Cardiology*. Accepted. 2019.

- 37) Shimuta K, Igawa G, Yasuda M, Deguchi T, Nakayama S, Ohnishi M. A Real-Time PCR Assay for the Detection of a *penA* Mutation Associated with Ceftriaxone Resistance in *Neisseria gonorrhoeae*. 2019. J Glob Antimicrob Resist pii: S2213-7165(19)30051-7
- 38) Golparian D, Rose L, Lynam A, Mohamed A, Bercot B, Ohnishi M, Crowley B, Unemo M. Multidrug-resistant *Neisseria gonorrhoeae* isolate, belonging to the internationally spreading Japanese FC428 clone, with ceftriaxone resistance and intermediate resistance to azithromycin, Ireland, August 2018. Euro Surveill. 2018 Nov;23(47).
- 39) Ogura Y, Seto K, Morimoto Y, Nakamura K, Sato MP, Gotoh Y, Itoh T, Toyoda A, Ohnishi M, Hayashi T. Emerg Infect Dis. 2018 Dec;24(12):2219-2227
- 40) Kanai M, Arima Y, Nishiki S, Shimuta K, Itoda I, Matsui T, Oishi K, Ohnishi M, Nakayama S. Molecular Typing and Macrolide Resistance Analyses of *Treponema pallidum* in Heterosexuals and Men Who Have Sex with Men in Japan, 2017. J Clin Microbiol. 2019 Jan 2;57(1). pii: e01167-18.
- 41) Seki M, Kilgore PE, Kim EJ, Ohnishi M, Hayakawa S, Kim DW. Loop-Mediated Isothermal Amplification Methods for Diagnosis of Bacterial Meningitis. Front Pediatr. 2018 Mar 12;6:57.
- 42) Takahashi T, Arima Y, Yamagishi T, Nishiki S, Kanai M, Ishikane M, Matsui T, Sunagawa T, Ohnishi M, Oishi K. Rapid Increase in Reports of Syphilis Associated With Men Who Have Sex With Women and Women Who Have Sex With Men, Japan, 2012 to 2016. Sex Transm Dis. 2018 Mar;45(3):139-143.
- 43) Senpuku H, Yonezawa H, Yoneda S, Suzuki I, Nagasawa R, Narisawa N. *SMU.940* regulates dextran-dependent aggregation and biofilm formation in *Streptococcus mutans*. Molecular Oral Microbiology 2018, 33, 47-58.
- 44) Iwamoto A, Nakamura T, Narisawa N, Kawasaki Y, Abe S, Torii Y, Senpuku H, Takenaga F. The Japanese fermented food natto inhibits sucrose-dependent biofilm formation by cariogenic streptococci. Food Science and Technology Research, 2018, 24, 129-137.
- 45) Suzuki I, Shimizu T, Senpuku H. Role of SCFAs for fimbriin-dependent biofilm formation of *Actinomyces oris*. Microorganisms, 2018, pii, E114, doi: 10.3390/microorganisms6040114.
- 46) Nakao R, Myint SL, Wai SN, Uhlin BE. Enhanced biofilm formation and membrane vesicle release by *Escherichia coli* expressing a commonly occurring plasmid gene, *kil* : Front Microbiol. 2018. 9:2605.