

5. Department of Bacteriology II

- 1) Moriwaki S, Into T, Suzuki K, Miyauchi M, Takata T, Shibayama K, Niida S. γ -Glutamyltranspeptidase is an endogenous activator of Toll-like receptor 4-mediated osteoclastogenesis. *Sci Rep.* 2016 Oct 24;6:35930
- 2) Tran DN, Tran HH, Matsui M, Suzuki M, Suzuki S, Shibayama K, Pham TD, Van Phuong TT, Dang DA, Trinh HS, Loan CT, Nga LTV, van Doorn HR, Wertheim HFL. Emergence of New Delhi metallo- β -lactamase 1 and other carbapenemase-producing *Acinetobacter calcoaceticus-baumannii* complex among patients in hospitals in Ha Noi, Viet Nam. *Eur J Microbiol Infect Dis.* 2017 Feb, 36(2):219-225.
- 3) Segawa T, Matsui M, Suzuki M, Tsutsui A, Kuroda M, Shibayama K, Suzuki S. Utilizing the Carba NP test as an indicator of expression level of carbapenemase genes in Enterobacteriaceae. *J Microbiol Methods.* 2017 Feb, 133:35-39.
- 4) Hayashi M, Kawamura K, Matsui M, Suzuki M, Suzuki S, Shibayama K, Arakawa Y. Reduction in chlorhexidine efficacy against multi-drug-resistant *Acinetobacter baumannii* international clone II. *J Hosp Infect.* 2017 Mar, 95(3):318-323.
- 5) Ishiwada N, Takaya A, Kimura A, Watanabe M, Hino M, Ochiai H, Matsui M, Shibayama K, Yamamoto T. Linezolid-resistant *Staphylococcus epidermidis* associated with long-term, repeated linezolid use in a pediatric patient. *J Infect Chemother.* 2016, 22:187-190
- 6) Suzuki M, Shibayama K, Yahara K. A genome-wide association study identifies a horizontally-transferred bacterial surface adhesin gene associated with antimicrobial resistant strains. *Sci Rep.* 2016 6:37811.
- 7) Oinuma KI, Suzuki M, Sato K, Nakaie K, Niki M, Takizawa E, Niki M, Shibayama K, Yamada K, Kakeya H, Kaneko Y. Genome Sequence of an *Acinetobacter baumannii* Strain Carrying Three Acquired Carbapenemase Genes. *Genome Announc.* 2016 4(6): e01290-16.
- 8) Matsui H, Takahashi T, Murayama SY, Uchiyama I, Yamaguchi K, Shigenobu S, Suzuki M, Rimbara E, Shibayama K, Øverby A, Nakamura M. Draft Genome Sequence of *Helicobacter suis* Strain SNTW101, Isolated from a Japanese Patient with Nodular Gastritis. *Genome Announc.* 2016 4(5):e00934-16.
- 9) Teramoto M, Zhai Z, Komatsu A, Shibayama K, Suzuki M. Genome Sequence of the Psychrophilic Bacterium *Tenacibaculum ovolyticum* Strain da5A-8 Isolated from Deep Seawater. *Genome Announc.* 2016 4(3):e00644-16.
- 10) Uchiyama J, Suzuki M, Nishifuji K, Kato S, Miyata R, Nasukawa T, Yamaguchi K, Takemura-Uchiyama I, Ujihara T, Shimakura H, Murakami H, Okamoto N, Sakaguchi Y, Shibayama K, Sakaguchi M, Matsuzaki S. Analyses of Short-Term Antagonistic Evolution of *Pseudomonas aeruginosa* Strain PAO1 and Phage KPP22 (Myoviridae Family, PB1-Like Virus Genus). *Appl Environ Microbiol.* 2016 82(15):4482-91.
- 11) Kawanishi M, Abo H, Ozawa M, Uchiyama M, Shirakawa T, Suzuki S, Shima A, Yamashita A, Sekizuka T, Kato K, Kuroda M, Koike R, Kijima M. Prevalence of colistin-resistance gene *mcr-1* and absence of *mcr-2* in *Escherichia coli* isolated from healthy food producing animals in Japan. *Antimicrob Agents Chemother.* 2016 61(1) e02057-16
- 12) Morikane K, Honda H, Suzuki S. Factors associated with surgical site infection following gastric surgery. *Infect Control Hosp Epidemiol.* 2016 37(10):1167-72
- 13) Tanihara S, Suzuki S. Estimation of the incidence of MRSA patients: evaluation of a surveillance system using health insurance claim data. *Epidemiol. Infect.* 2016 144(11):2260-7,
- 14) Cairns MD, Preston MD, Hall CL, Gerdin DN, Hawkey PM, Kato H, Kim H, Kuijper EJ, Lawley TD, Pituch H, Reid S, Kullin B, Riley TV, Solomon K, Tsai PJ, Weese JS, Stabler RA, Wren BW. Comparative genome analysis and global phylogeny of the toxin

- variant *Clostridium difficile* PCR Ribotype 017 reveals the evolution of two independent sublineages. J Clin Microbiol 2017, 55: 865-876.
- 15) Katanami Y, Kutsuna S, Horino A, Hashimoto T, Mutoh Y, Yamamoto K, Takeshita N, Hayakawa K, Kanagawa S, Kato Y, Ohmagari N. A fatal case of melioidosis with pancytopenia in a traveler from Indonesia. J. Infect. Chemother. 2017, 23(4):241-244.
- 16) Matsui H, Takahashi T, Murayama SY, Uchiyama I, Yamaguchi K, Shigenobu S, Suzuki M, Rimbara E, Shibayama K, Øverby A, Nakamura M. Draft Genome Sequence of *Helicobacter suis* Strain SNTW101, Isolated from a Japanese Patient with Nodular Gastritis. Genome Announc. 2016, 4(5).
- 17) Trespalacios-Rangél AA, Otero W, Arévalo-Galvis A, Poutou-Piñales RA, Rimbara E, Graham DY. Surveillance of Levofloxacin Resistance in *Helicobacter pylori* Isolates in Bogotá-Colombia (2009-2014). PLoS One. 2016, 11(7):e0160007.
- 18) Changkwanyeun R, Yamaguchi T, Kongsoi S, Changkaew K, Yokoyama K, Kim H, Suthienkul O, Usui M, Tamura Y, Nakajima C, Suzuki Y. Impact of mutations in DNA gyrase genes on quinolone resistance in *Campylobacter jejuni*. Drug testing and analysis. 2016, 8(10):1071-1076.
- 19) Masumi A, Mochida K, Takizawa K, Mizukami T, Kuramitsu M, Tsuruhara M, Mori S, Shibayama K, Yamaguchi K, Hamaguchi I. *Mycobacterium avium* infection induces the resistance of the interferon- γ response in mouse spleen cells at late stages of infection. Inflammation and Regeneration 2016, 36:21.
- 20) Wachino J, Yamaguchi Y, Mori S, Jin W, Kimura K, Kurosaki H, Arakawa Y. Structural insights into recognition of hydrolyzed carbapenems and inhibitors by subclass B3 metallo- β -lactamase SMB-1. Antimicrobial agents and chemotherapy 2016, 60(7):4274-4282.
- 21) Gomes C, Palma N, Pons MJ, Magallón-Tejada A, Sandoval I, Tinco-Valdez C, Gutarra C, Del Valle-Mendoza J, Ruiz J, Matsuoka M. Succinyl-CoA Synthetase: New Antigen Candidate of *Bartonella bacilliformis*. PLoS Negl Trop Dis. 2016 Sep 14;10(9)
- 22) Zhang J, Song X, Ma MJ, Xiao L, Kenri T, Sun H, Ptacek T, Li S, Waites KB, Atkinson TP, Shibayama K, Dybvig K and Feng Y. Inter- and intra-strain variability of tandem repeats in *Mycoplasma pneumoniae* based on next-generation sequencing data. Future Microbiol. 2016, 12: 119-129
- 23) Mori N, Takigawa A, Kagawa N, Kenri T, Yoshida S, Shibayama K and Aoki Y. Pelvic abscess due to *Mycoplasma hominis* following cesarean section. JMM Case Rep. 2016, 3(4):e005059
- 24) Yamazaki T and Kenri T (2016) Epidemiology of *Mycoplasma pneumoniae* infections in Japan and Therapeutic Strategies for Macrolide-resistant *M. pneumoniae*. Front Microbiol. 7: 693.
- 25) Ishiguro N, Koseki N, Kaiho M, Kikuta H, Togashi T, Oba K, Morita K, Nagano N, Nakanishi M, Hazama K, Watanabe T, Sasaki S, Horino A, Kenri T and Ariga T; Hokkaido Pediatric Respiratory Infection Study Group. Regional differences in prevalence of macrolide resistance among pediatric *Mycoplasma pneumoniae* Infections in Hokkaido. Jpn J Infect Dis. 2016, 20: 186-190.
- 26) Suzuki M, Shibayama K, Yahara K. A genome-wide association study identifies a horizontally transferred bacterial surface adhesin gene associated with antimicrobial resistant strains. Sci Rep. 2016 Nov 28;6:37811
- 27) Thorell K*, Yahara K*, Berthenet E, Lawson DJ, Mikhail J, Kato I, Mendez A, Rizzato C, Bravo MM, Suzuki R, Yamaoka Y, Torres J, Sheppard SK, Falush D. Rapid evolution of distinct *Helicobacter pylori* subpopulations in the Americas. PLoS Genet. 2017 Feb 23;13(2):e1006546
- 28) Zhang G, Leclercq SO, Tian J, Wang C, Yahara K, Ai G, Liu S, Feng J. A new subclass of intrinsic

- aminoglycoside nucleotidyltransferases, ANT(3")-II, is horizontally transferred among *Acinetobacter* spp. by homologous recombination. PLoS Genet. 2017 Feb 2;13(2):e1006602 Methods. 2017;133:20-2.
- 29) Yahara K, Méric G, Taylor AJ, de Vries SP, Murray S, Pascoe B, Mageiros L, Torralbo A, Vidal A, Ridley A, Komukai S, Wimalarathna H, Cody AJ, Colles FM, McCarthy N, Harris D, Bray JE, Jolley KA, Maiden MC, Bentley SD, Parkhill J, Bayliss CD, Grant A, Maskell D, Didelot X, Kelly DJ, Sheppard SK. Genome-wide association of functional traits linked with *Campylobacter jejuni* survival from farm to fork. Environ Microbiol. 2017 Jan;19(1):361-380
- 30) Monteil CL, Yahara K, Studholme DJ, Mageiros L, Méric G, Swingle B, Morris CE, Vinatzer BA, Sheppard SK. Population-genomic insights into emergence, crop adaptation and dissemination of *Pseudomonas syringae* pathogens. Microb Genom. 2016 Oct 21;2(10):e000089.
- 31) Kojima KK, Furuta Y, Yahara K, Fukuyo M, Shiwa Y, Nishiumi S, Yoshida M, Azuma T, Yoshikawa H, Kobayashi I. Population Evolution of *Helicobacter pylori* through Diversification in DNA Methylation and Interstrain Sequence Homogenization. Mol Biol Evol. 2016 Nov;33(11):2848-2859
- 32) Uchiyama I, Albritton J, Fukuyo M, Kojima KK, Yahara K, Kobayashi I. A Novel Approach to *Helicobacter pylori* Pan-Genome Analysis for Identification of Genomic Islands. PLoS One. 2016 Aug 9;11(8):e0159419.
- 33) Hiramatsu Y, Yoshino S, Yamamura Y, Otsuka N, Shibayama K, Watanabe M, Kamachi K. The proline residue at position 319 of BvgS is essential for BvgAS activation in *Bordetella pertussis*. Pathog Dis 2017; 1:75(1).
- 34) Kamachi K, Moriuchi T, Hiramatsu Y, Otsuka N, Shibayama K. Evaluation of a commercial loop-mediated isothermal amplification assay for diagnosis of *Bordetella pertussis* infection. J Microbiol
- 35) Saito M, Odanaka K, Otsuka N, Kamachi K, Watanabe M. Development of vaccines against pertussis caused by *Bordetella holmesii* using a mouse intranasal challenge model. Microbiol Immunol 2016;60:599-608.
- 36) Hiramatsu Y, Saito M, Otsuka N, Suzuki E, Watanabe M, Shibayama K, Kamachi K. BipA is associated with preventing autoagglutination and promoting biofilm formation in *Bordetella holmesii*. PLoS One 2016;11: e0159999.
- 37) Otsuka N, Gotoh K, Nishimura N, Ozaki T, Nakamura Y, Haga K, Yamazaki M, Gondaira F, Okada K, Miyaji Y, Toyoizumi-Ajisaka H, Shibayama K, Arakawa Y, Kamachi K. A Novel IgM-capture enzyme-linked immunosorbent assay using recombinant Vag8 fusion protein for the accurate and early diagnosis of *Bordetella pertussis* infection. Microbiol Immunol 2016;60:326-33.