

4. Department of Bacteriology I

- 1) Ramstedt M, Nakao R, Wai SN, Uhlin BE, Boily JF: Monitoring surface chemistry changes in the bacterial cell wall - multivariate analysis of Cryo-X-ray photoelectron spectroscopy data. J Biol Chem 2011, 286: 12389-96.
- 2) Nakao R, Hasegawa H, Ochiai K, Takashiba S, Aina A, Ohnishi M, Watanabe H, Senpuku H: Outer Membrane Vesicles of *Porphyromonas gingivalis* Elicit a Mucosal Immune Response. PLoS One 2011, 6: e26163.
- 3) Matsumura T, Ato M, Ikebe T, Ohnishi M, Watanabe H, Kazuo Kobayashi: Interferon- γ -producing immature myeloid cells confer protection against severe invasive group A *Streptococcus* infections. Nat Commun 2012, 3:678 doi: 10.1038/ncomms1677.
- 4) Nahar S, Sultana M, Naser MN, Nair GB, Watanabe H, Ohnishi M, Yamamoto S, Endtz H, Cravioto A, Sack RB, Hasan NA, Sadique A, Huq A, Colwell RR, Alam M: Role of shrimp chitin in the ecology of toxigenic *Vibrio cholerae* and cholera transmission. Front Microbiol 2012, 2:260.
- 5) Oishi T, Wada A, Chang B, Toyabe S, Uchiyama M: Serotyping and multilocus sequence typing of *Streptococcus pneumoniae* isolates from the blood and posterior nares of Japanese children prior to the introduction of 7-Valent pneumococcal conjugate vaccine. Jpn J Infect Dis 2011, 64: 341-344.
- 6) Izumiya H, Matsumoto K, Yahiro S, Lee J, Morita M, Yamamoto S, Arakawa E, Ohnishi M: Multiplex PCR assay for identification of three major pathogenic *Vibrio* spp., *Vibrio cholerae*, *Vibrio parahaemolyticus*, and *Vibrio vulnificus*. Mol Cell Probes 2011, 25: 174-176.
- 7) Shahada F, Sekizuka T, Kuroda M, Kusumoto M, Ohnishi D, Matsumoto A, Okazaki H, Tanaka K, Uchida I, Izumiya H, Watanabe H, Tamamura Y, Iwata T, Akiba M: Characterization of *Salmonella enterica* serovar Typhimurium isolates harboring a chromosomally encoded CMY-2 β -lactamase gene located on a multidrug resistance genomic island. Antimicrob Agents Chemother 2011, 55: 4114-4121.
- 8) Sugawara M, Shahada F, Izumiya H, Watanabe H, Uchida I, Tamamura Y, Kusumoto M, Iwata T Akiba M: Change in antimicrobial resistance pattern in *Salmonella enterica* serovar Typhimurium isolates in a beef cattle farm. J Vet Med Sci 2012, 74: 93-97.
- 9) Sithivong N, Morita-Ishihara T, Vongdouangchanh A, Phouthavane T, Chomlasak K, Sisavath L, Khamphaphongphane B, Sengkeopraseuth B, Vongprachanh P, Keosavanh O, Southalack K, Lee J, Tsuyuoka R, Ohnishi M, Izumiya H: Molecular subtyping in cholera outbreak, Laos, 2010. Emerg Infect Dis 2011, 17: 2060-2062.
- 10) Tada A, Senpuku H: Attitudes towards HIV-infected patients, knowledge related to HIV/Universal precautions, and infection control practices of Japanese dentists. J Dent Health 2011, 61: 273-281.
- 11) Narisawa N, Kawarai T, Suzuki N, Sato Y, Ochiai K, Ohnishi M, Watanabe H, Senpuku H: Competence-dependent endogenous DNA rearrangement and uptake of extracellular DNA gives a natural variant of *Streptococcus mutans* without biofilm formation. J Bacteriol 2011, 193: 5147-5154.
- 12) Ito T, Maeda T, Senpuku H: Roles of salivary components in *Streptococcus mutans* colonization in a new animal model using NOD/SCID. *e2f1* mice. PLoS ONE 2012, 7: e32063.
- 13) Taguri T, Oda Y., Sugiyama K., Nishikawa T, Endo T, Izumiya S, Yamasaki M., Kura F: A rapid detection method using flow cytometry to monitor the risk of legionellosis in bath water. J Microbiol Methods 2011, 86:25-32.
- 14) Takano A, Fujita H, Kadosaka T, Konnai S, Tajima T, Watanabe H, Ohnishi M, Kawabata H: Characterization of Reptile-associated borrelia in the vector tick, *Amblyomma geoemydae*, and its association with Lyme disease and Relapsing fever *Borrelia* spp. Environmental Microbiology Report 2011, 3: 632-7.
- 15) Takano A, Nakao M, Masuzawa T, Takada N, Yano Y, Ishiguro F, Fujita H, Ito T, Ma X, Oikawa Y, Kawamori F, Kumagai K, Mikami T, Hanaoka N, Ando S, Honda N, Taylor K, Tsubota T, Konnai S, Watanabe H, Ohnishi M, Kawabata H: Multi-locus sequence typing implicates rodents as the main reservoir host of human pathogenic *Borrelia garinii* in Japan. Journal of Clinical Microbiology 2011, 49: 2035-9.
- 16) Tabara K, Kawabata H, Arai S, Itagaki A, Yamauchi T, Katayama T, Fujita H, Takada N: High incidence of

- rickettsiosis correlated to prevalence of *Rickettsia japonica* among *Haemaphysalis longicornis* tick. Journal of Veterinary Medical Science 2011, 73, 507-10.
- 17) Murase Y, Konnai S, Hidano A, Githaka WN, Ito T, Takano A, Kawabata H, Ato M, Tajima T, Tajima M, Onuma M, Murata S, Ohashi K: Molecular detection of *Anaplasma phagocytophilum* in cattle and *Ixodes persulcatus* ticks. Veterinary Microbiology 2011, 149: 504-7.
- 18) Lee K, French NP, Hara-Kudo Y, Iyoda S, Kobayashi H, Sugita-Konishi Y, Tsubone H, Kumagai S: Multivariate analyses revealed distinctive features differentiating human and cattle isolates of Shiga toxin-producing *Escherichia coli* O157 in Japan. Journal of Clinical Microbiology, 49, 1495-1500, 2011.
- 19) Iyoda S, Honda N, Saitoh Y, Shimuta K, Terajima J, Watanabe H, Ohnishi M: Coordinate control of the locus of enterocyte effacement and enterohemolysin genes by multiple common virulence regulators in enterohemorrhagic *Escherichia coli*. Infection and Immunity, 79, 4628-4637, 2011.
- 20) Iguchi A, Iyoda S, Seto K, M. Ohnishi M: EHEC Study Group: Emergence of a novel Shiga toxin-producing *Escherichia coli* O serogroup cross-reacting with *Shigella boydii* type 10. Journal of Clinical Microbiology, 49, 3678-3680, 2011.
- 21) Lee K, French NP, Jones G, Hara-Kudo Y, Iyoda S, Kobayashi H, Sugita-Konishi Y, Tsubone H, Kumagai S: Variation in stress resistance patterns among stx genotypes and genetic lineages of shiga toxin-producing *Escherichia coli* O157. Applied Environmental Microbiology. 78, 3361-3368, 2012.
- 22) Rajkumar S, Joseph Ratnam VP, Narmada N, Arakawa E, Sundararaj T. Enterotoxigenicity screening of viable environmental *Vibrio cholerae* strains from rainwater pools in a university campus in Chennai, South India. Scand J Infect Dis. 2011 May;43(5):325-8.
- 23) Ohnishi M, Golparian D, Shimuta K, Saika T, Hoshina S, Iwasaku K, Nakayama S, Kitawaki J, Unemo M: Is *Neisseria gonorrhoeae* initiating a future era of untreatable gonorrhoea?: detailed characterization of the first strain with high-level resistance to ceftriaxone. Antimicrob Agents Chemother. 2011, 55:3538-45.
- 24) Sekizuka T, Matsui M, Yamane K, Takeuchi F, Ohnishi M, Hishinuma A, Arakawa Y, Kuroda M. Complete Sequencing of the *bla*_{NDM-1}-Positive IncA/C Plasmid from *Escherichia coli* ST38 Isolate Suggests a Possible Origin from Plant Pathogens. PLoS One. 6: e25334, 2011
- 25) Goire N, Ohnishi M, Limnios A, Lahra M, Lambert S, Nimmo G, Nissen M, Sloots T, Whiley D. Enhanced gonococcal anti-microbial surveillance in the era of ceftriaxone resistance: a real-time PCR assay for direct detection of the *Neisseria gonorrhoeae* H041 strain. J. Antimicrobial Chemotherapy. 67: 902-905, 2012
- 26) Unemo M, Golparian D, Nicholas R, Ohnishi M, Gallay A, Sednaoui P. High-level cefixime- and ceftriaxone-resistant *N. gonorrhoeae* in Europe (France): novel penA mosaic allele in a successful international clone causes treatment failure. Antimicrob Agents Chemother Antimicrob Agents Chemother 56: 1273-1280. 2012
- 27) Golparian D, Eernandes P, Ohnishi M, Jensen J, Unemo M: In vitro activity of the new fluoroketolide solithromycin (CEM-101) against a large collection of clinical *Neisseria gonorrhoeae* isolates and international reference strains including those with various high-level antimicrobial resistance - potential treatment option for gonorrhoea? Antimicrob Agents Chemother 56: 2739-2742, 2012.
- 28) Amilasan AT, Ujiie M, Suzuki M, Salva E, Belo MC, Koizumi N, Yoshimatsu K, Schmidt W, Marte S, Dimaano EM, Villarama JB, Ariyoshi K: Outbreak of Leptospirosis after Flood Caused by Typhoon Ketsana in Metro Manila, the Philippines, 2009. Emerg Infect Dis. 2012, 18: 91-4.
- 29) Masuzawa T, Uchishima Y, Fukui T, Okamoto Y, Muto M, Koizumi N, Yamada A. Detection of *Anaplasma phagocytophilum* from wild boars and deer in Japan. Jpn J Infect Dis. 2011, 64: 333-6.
- 30) Gamage CD, Koizumi N, Muto M, Nwafor-Okoli C, Kurukurusuriya S, Rajapakse JRPV, Kularatne SAM, Kanda K, Lee RB, Obayashi Y, Watanabe H, Tamashiro H. Prevalence and Carrier Status of Leptospirosis in Smallholder Dairy Cattle and Peridomestic Rodents in

Kandy, Sri Lanka. Vector Borne Zoonotic Dis. 2011, 11:
1041-7.