5. Department of Bacteriology II

1) Umene YD, Wong LK, Satoh T, Yamane K, Matsui M, Riley LW, Arakawa Y, Suzuki S. Molecular epidemiology characterization of uropathogenic *Escherichia coli* from an outpatient urology clinic in rural Japan. J Clin Mcrobiol 2015, 53:681-3

2) Hosoda T, Wakuta M, Ishii J, Tsuge I, Matsui M, Suzuki S, Yamada K, Suzuki K, Ishikawa K, Yoshida S. Emergence of *Salmonella* strain that produces IMP-1-type metallo- β -lactamase in a Japanese patient. Jpn J Infect Dis 2015, 68:75-6

3) Tran HH, Ehsani S, Shibayama K, Matsui M, Suzuki S, Nguyen MB, Tran DN, Tran VP, Tran DL, Nguyen HT, Dang DA, Trinh HS, Nguyen TH, Wertheim HFL. Common isolation of New Delhi metallo- β -lactamase 1-producing Enterobacteriaceae in a large surgical hospital in Vietnam. Eur J Clin Microbiol Infect Dis 2015, 34(6):1247-54

4) Asai S, Umezawa K, Iwashita H, Ohshima T, Ohashi M, Sasaki M, Hayashi H, Matsui M, Shibayama K, Inokuchi S, Miyachi H. An outbreak of $bla_{\text{OXA-51-like}}$- and $bla_{\text{OXA-66}}$-positive *Acinetobacter baumannii* ST208 in the emergency intensive care unit. J Med Microbiol 2014, 63:1517-23.

5) Takaya A, Kimura A, Sato Y, Ishikawa N, Watanabe M, Matsui M, Shibayama K, Yamamoto T. Molecular characterization of linezolid-resistant CoNS isolates in Japan. J Antimicrob Chemother 2015, 70(3):658-63.

6) Matsui M, Suzuki S, Yamane K, Suzuki M, Konda T, Arakawa Y, Shibayama K. Distribution of carbapenem resistance determinants among epidemic and non-epidemic types of *Acinetobacter* species in Japan. J Med Microbiol 2014, 63:870-7.

7) Suzuki M, Hosoda E, Matsui M, Arakawa Y. New PCR-based open reading frame typing method for easy, rapid, and reliable identification of *Acinetobacter baumannii* international epidemic clones without performing multilocus sequence typing. J Clin Microbiol 2014, 52(8):2925-32.

8) Nakano, R., Nakano, A., Hikosaka, K., Kawakami, S., Matsunaga, N., Asahara, M., Ishigaki, S., Furukawa, T., Suzuki, M., Shibayama, K., and Ono, Y. (2014) First report of metallo-β-lactamase NDM-5 producing *Escherichia coli* in Japan. Antimicrob Agents Chemother 58(12): 7611-7612.

9) Hagiya, H., Murase, T., Suzuki, M., Otsuka, F., and Shibayama, K. (2014) An emergence of third-generation cephalosporin-resistant Enterobacteriacae at a Japanese critical care setting. Acute Med Surg 1(4): 256-258.

10) Suzuki, M., Suzuki, S., Matsui, M., Hiraki, Y., Kawano, F., and Shibayama, K. (2014) A subclass B3 metallo-β-lactamase found in *Pseudomonas alcaligenes*. J Antimicrob Chemother 69(5): 1430-1432.

11) Morikane K, Honda H, Yamagishi T, Suzuki S, Aminaka M. Factors associated with surgical site infection in colorectal surgery: the Japan nosocomial infections surveillance. Infect Control Hosp Epidemiol. 2014 Jun;35(6):660-6.

12) Kenri T, Sekizuka T, Yamamoto A, Iwaki M, Komiya T, Hatakeyama T, Nakajima H, Takahashi M, Kuroda M and Shibayama K. Genetic characterization and comparison of *Clostridium botulinum* isolates from botulism cases in Japan between 2006 and 2011. Appl Environ Microbiol 80, 6954-64 (2014).

13) Nishimura S, Kou T, Kato H, Watanabe M, Uno S, Senoh M, Fukuda T, Hata A, Yazumi S. Fulminant pseudomembranous colitis caused by *Clostridium difficile* PCR ribotype 027 in a healthy young woman in Japan. J Infect Chemother 2014 20: 729-731.

14) Hifumi T, Sakai A, Yamamoto A, Murakawa M, Ato M, Shibayama K, Kato H, Koido Y, Inoue J, Abe Y, Kawakita K, Hagiike M, Ginnaga A, KurodaY. Effect of antivenom therapy of Rhabdophis tigrinus (Yamakagashi snake) bites. J Intensive Care 2014 2: 44.

15) Silva A, Hifumi T, Sakai A, Yamamoto A, Murakawa M, Ato M, Shibayama K, Ginnaga A, Kato H, Koido Y, Inoue J, Abe J, Kawakita K, Hagiike M, Kuroda Y: Rhabdophis tigrinus is not a pit viper but its bites result in venom-induced consumptive coagulopathy similar to many viper bites. J Intensive Care 2014 2: 43.

16) Hifumi T, Fujimi S, Yamagishi T, Satoru Arai, Sawabe K,Yamamoto A, Ato M, Shibayama K, Ginnaga A, Kiriu N, Kato H, Koido Y, Inoue J, Kishikawa M, Abe Y, Kawakita K, Hagiike M, Kuroda Y：Clinical characteristics of red-back spider bites. J Intensive Care 2014 2: 62.

17) Hifumi T, Yamamoto A, Takahashi M, Koido Y, Kawakita K: Considerations or tetanus infection in an adult with protective tetanus antibody level, Am J Emerg Med 2014 32: S0735-6757.

18) Senoh M, Kato H, Murase T, Hagiya H, Tagashira Y, Fukuda T, Iwaki M, Yamamoto A, Shibayama K. Reverse transcription polymerase chain reaction-based method for

selectively detecting vegetative cells of toxigenic *Clostridium difficile*. Microbiol Immunol 2014 58:615-620.
19) Senoh M, Iwaki M, Yamamoto A, Kato H, Fukuda T, Shibayama K. Inhibition of adhesion of *Clostridium difficile* to human intestinal cells after treatment with serum and intestinal fluid isolated from mice immunized with nontoxigenic *C. difficile* membrane fraction. Microb Pathog 2015 81:1-5.
20) Kim H, Hong Y J, Shibayama K, Suzuki Y, Wakamiya N, Kim Y U. Functional analysis of the receptor binding domain of SARS coronavirus S1 region and its monoclonal antibody. Genes and Genomics. 2013, 36:387-397.
21) Kim H, Shibayama K, Rimbara E, Mori S. Biochemical characterization of quinolinic acid phosphoribosyltransferase from *Mycobacterium tuberculosis* H37Rv and inhibition of its activity by pyrazinamide. PLOS ONE, 2014, 20; 9(6):e100062.
22) Mori S, Kim H, Rimbara E, Shibayama K. Roles of Ala-149 in the catalytic activity of diadenosine tetraphosphate phosphorylase from *Mycobacterium tuberculosis* H37Rv. Bioscience, Biotechnology, and Biochemistry. 2015, 79(2):236-238.
23) Nagasawa M, Kaku M, Kamachi K, Shibayama K, Arakawa Y, Yamaguchi K, Ishii Y. Loop-mediated isothermal amplification assay for 16S rRNA methylase genes in Gram-negative bacteria. J Infect Chemother. 20:635-8, 2014.
24) Bart MJ, Harris SR, Advani A, Arakawa Y, Bottero D, Bouchez V, Cassiday PK, Chiang CS, Dalby T, Fry NK, Gaillard ME, van Gent M, Guiso N, Hallander HO, Harvill ET, He Q, van der Heide HG, Heuvelman K, Hozbor DF, Kamachi K, Karataev GI, Lan R, Lutyńska A, Maharjan RP, Mertsola J, Miyamura T, Octavia S, Preston A, Quail MA, Sintchenko V, Stefanelli P, Tondella ML, Tsang RS, Xu Y, Yao SM, Zhang S, Parkhill J, Mooi FR. Global population structure and evolution of *Bordetella pertussis* and their relationship with vaccination. mBio 5:e01074, 2014.
25) Yamaguchi Y, Matsueda S, Matsunaga K, Takashio N, Toma-Fukai S, Yamagata Y, Shibata N, Wachino J, Shibayama K, Arakawa Y, Kurosaki H. Crystal structure of IMP-2 metallo-β-lactamase from Acinetobacter spp.: comparison of active-site loop structures between IMP-1 and IMP-2. Biol Pharm Bull. 2015;38(1):96-101.
26) Ishiwada N, Hishiki H, Nagasawa K, Naito S, Sato Y, Chang B, Sasaki Y, Kimura K, Ohnishi M, Shibayama K. The incidence of pediatric invasive Haemophilus influenzae and pneumococcal disease in Chiba prefecture, Japan before and after the introduction of conjugate vaccines. Vaccine. 2014 Sep 22;32(42):5425-31.
27) Nakamura G, Wachino J, Sato N, Kimura K, Yamada K, Jin W, Shibayama K, Yagi T, Kawamura K, Arakawa Y. Practical agar-based disk potentiation test for detection of fosfomycin-nonsusceptible Escherichia coli clinical isolates producing glutathione S-transferases. J Clin Microbiol. 2014 Sep;52(9):3175-9.
28) Nagano N, Nagano Y, Toyama M, Kimura K, Shibayama K, Arakawa Y.
Penicillin-susceptible group B streptococcal clinical isolates with reduced cephalosporin susceptibility. J Clin Microbiol. 2014 Sep;52(9):3406-10.
29) Momose Y, Asakura H, Kitamura M, Okada Y, Ueda Y, Hanabara Y, Sakamoto T, Matsumura T, Iwaki M, Kato H, Shibayama K, Igimi S. Food-borne botulism in Japan in March 2012. Int J Infect Dis. 2014 Jul;24:20-2.
30) Banno H, Kimura K, Tanaka Y, Kitanaka H, Jin W, Wachino J, Yamada K, Shibayama K, Arakawa Y. Characterization of multidrug-resistant group B streptococci with reduced penicillin susceptibility forming small non-Beta-hemolytic colonies on sheep blood agar plates. J Clin Microbiol. 2014 Jun;52(6):2169-71.