Digital Poster

DP1-01　Taxonomy / Epidemiology / Infectious diseases 01

Wednesday, August 7　9:00–10:00
Digital Poster Group 1 (Main Hall)

Chair: Noriko Urushibara (Sapporo Medical University)

DP1-01-01/P1-001
New species belonging to the genus *Waltera*
○Mitsuo Sakamoto, Atsushi Hisatomi, Moriya Ohkuma (RIKEN BRC-JCM)

DP1-01-02/P1-002
Clostridium massiliodielmoense* from dead cattle suggests the need for improved PCR for *Clostridium
○Takashi Mada[1], Asami Umeda[2], Akira Kodama[2], Daisuke Takamatsu[1,3] ([1]Anim. Infect. Res. Div., Natl. Inst. Anim. Hlth., NARO, [2]Oita LHSC, Oita Pref., [3]Utd. Grad. Sch. Vet. Sci., Gifu Univ.)

DP1-01-03/P1-003
Shallow-Seq; the method for presuming genetic lineage of bacteria with small amount of sequence data
○Nobuyoshi Yagi[1], Nanase Miyagi[2], Itaru Hirai[2] ([1]Lab. Clin. Physiol., Dept. Health Sci., Univ. Ryukyus, [2]Lab. Microbiol., Dept. Health Sci., Univ. Ryukyus)

DP1-01-04/P1-004
Molecular epidemiological characterization of MRSA from bloodstream infections in Hokkaido
○Meiji Soe Aung[1], Noriko Urushibara[1], Mitsuyo Kawaguchiya[1], Nobuhide Ohashi[1], Rou Araki[2], Kana Matsubara[2], Masahiko Ito[2], Nobumichi Kobayashi[1] ([1]Dept. Hygiene, Sch. Med., Sapporo Med. Univ., [2]Sapporo Clin. Lab. Inc.)

DP1-01-05/P1-005
Isolation of Oral Drug-Resistant Bacteria from Home-care Patient and Relation to Medical Information
○Saki Nishihama[1], Miki Matsuo[2,3], Nguyen Tra Mi Le[2,3], Chika Arai[3,4], Toshiki Kajihara[3,4], Yo Sugawara[4], Hiroki Ohge[3,5], Motoyuki Sugai[3,4], Hideki Shiba[1], Hitoshi Komatsuzawa[2,3] ([1]Dept. Biol Endod., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., [2]Dept. Bacteriol., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., [3]Proj. Res. Ctr. for Nosocominal Infectious Diseases, Hiroshima Univ., [4]Res. Cent for AMR, NIID., [5]Dept. Infectious Diseases., Hiroshima Univ. Hosp.)

DP1-01-06/P1-006
Phylogenetic analysis of C. ulcerans isolated from patients and protected cats in Kumamoto
○Chie Shitada[1], Takatoshi Yamamoto[1], Mikoto Moriguchi[2], Hideyuki Hayashi[3], Misato Mori[4], Hideaki Tokuoka[4], Kazutoshi Matsumoto[4], Chihiro Horiba[5], Makoto Kuroda[5], Motohide Takahashi[1] ([1]Dept. Toxin and Biologicals., Kumamoto Health Science Univ., [2]Kumamotorousai Hospital Clinical Laboratory Center, [3]Kumamoto Univ. Hospital Clinical Laboratory Center, [4]Kumamoto Prefectural Inst. Public Health and Environmental Science, [5]Pathogen Genomics Center Nat. Inst. Infect. Dis.)

DP1-01-07/P1-007
Comparative genomic analysis of *C. jejuni* isolates from Kolkata, India and Toyama
○Daichi Morita[1], Junko Isobe[2], Emi Maenishi[2], Fumito Maruyama[3], Yuki Yamamoto[1], Hidetoshi Tahara[1], Ayumi Ohno[4], Kei Kitahara[3], Shin-ichi Miyoshi[4,5], Teruo Kuroda[1] ([1]Grad. Sch. Bio. Heal. Sci., Hiroshima Univ., [2]Toyama Inst. Heal., [3]The IDEC Inst., Hiroshima Univ., [4]Collab. Res. Cent. of Okayama Univ. for Inf. Diseas. India, [5]Grad. Sch. Med., Dent. & Pharm. Sci., Okayama Univ.)

DP1-01-08/P1-008
Whole-genome analysis of Bordetella parapertussis Isolated in Japan
○Kentaro Koide[1], Azusa Onodera[2], Masahiro Kodana[2], Shintarou Ichimura[2], Nao Otsuka[1], Masataka Goto[1], Kazunari Kamachi[1], Tsuyoshi Kenri[1] ([1]Dept. Bact. II, Nat. Inst. Infectious Diseases, [2]Dept. Clin. Lab., Saitama Med. Univ. Hosp.)

DP1-01-09/P2-001
Prevalence of *Listeria monocytogenes* in retail foods in Japan
○Yumiko Okada[1], Akiko Tomaru[1], Tomoko Nishida[1], Shiori Yamamoto[1,2], Yukako Shimojima[3] ([1]Div. Biomed. Food Res., Nat. Inst. Health Sci., [2]Dept. Nutr. Diet., Kamakura Women's Univ., [3]Dept. Food Life Sci., F. Food Nutr. Sci., Toyo Univ.)

DP1-01-10/P2-002
Differential angiogenic properties and phylogenetic characteristics of *Bartonella henselae* strains
Yuka Kondo[1], Masahiro Suzuki[1], Shingo Sato[2], Soichi Maruyama[2], Yohei Doi[1,3], ○Kentaro Tsukamoto[4] ([1]Dept. Microbiol., Fujita Health Univ. Sch. Med., [2]Dept. Vet. Med., Coll. Bioresource Sci., Nihon Univ., [3]Dept. Infect. Dis., Fujita Health Univ. Sch. Med., [4]Dept. Bact. Zoonoses, RIMD, Osaka Univ.)

DP1-01-11/P2-003
Development of PCR-based serotyping method for *Mannheimia haemolytica*
○Atsushi Iguchi[1], Miki Okuno[2], Yoshitoshi Ogura[2], Kaori Hoshinoo[3], Yuichi Ueno[3], Daisuke Takamatsu[3] ([1]Fac. Agr., Miyazaki Univ., [2]Dept. Infect. Med., Kurume Univ. Sch. Med., [3]Natl. Inst. Anim. Hlth., NARO)

DP1-01-12/P2-004
A novel *Filobacterium* sp. detected in deposited 16S rRNA metagenome data of rhesus macaque
◯Fumio Ike (RIKEN BRC)

DP1-01-13/P2-005
Comparison of Tn1549/5382 containing vanB gene among VRE strains from different sources
◯Takako Nakayama, Takashi Kikuchi, Yushi Hachisu, Naoshi Ando, Masaki Nakamura, Natsuki Ueda, Mitsuru Kishizawa (Div. Bact., Chiba Pref. Inst. Pub. Health)

DP1-01-14/P2-006
Phylogenetic analysis of drug-resistant *Escherichia coli* isolated from domestic meat and livestock
◯Ryuji Kawahara[1], Takahiro Yamaguchi[1], Yuki Wakabayashi[1], Yuki Matsumoto[2], Daisuke Motooka[2], Shota Nakamura[2], Tatsuya Nakayama[3], Yoshimasa Yamamoto[4], Kentaro Kawatsu[1] ([1]Div. Microbiol., Osaka Inst. Pub. Health, [2]Dept. Infect. Metagenomics, RIMD, Osaka Univ., [3]Integ. Sci. Life, Hiroshima Univ., [4]Drug Discov. Med. Info. Sci., Gifu Univ.)

DP1-01-15/P2-007
Genetic diversity and binding ability of *Streptococcus mutans* collagen binding adhesin Cnm
◯Hideo Yonezawa, Yuichiro Kikuchi, Eitoyo Kokubu, Kazuyuki Ishihara (Dept. Microbiol., Tokyo Dent. Col.)

DP1-01-16/P2-008
Development of multiplex PCR for virulence-associated genes in *Bacillus cereus sensu lato*
◯Akira Okamoto (Sch. Health Sciences, Aichi Univ. Edu.)

DP1-01-17/P1-009
Drug Resistance and Molecular Typing of Campylobacter Associated with Food Poisoning in Saitama
◯Yuki Koyama, Shunsuke Kubokawa, Kotaro Yagi, Asami Arashima, Satomi Kando, Rie Doi, Kazumi Narisawa (Dept. Food Microbiol., Saitama Inst. Pub. Health)

DP1-01-18/P1-010
Molecular epidemiology of pathogenic Leptospira spp. in bats in Japan
◯Kazuki Kiuno[1], Miyuka Nishizato[1], Weuyin Hu[1], Saki Mitsunaga[1], Takashi Murakami[2], Daisuke Koyabu[3], Ai Takano[4], Nobuo Koizumi[5], Hiroshi Shimoda[1], Daisuke Hayasaka[1] ([1]Dept. Micro., Vet. Med., Yamaguchi Univ., [2]Div. Cultural Properties Protection, Mine City, [3]Dept. Precision Medicine., Res and Dev. Ctr., Tsukuba Univ., [4]Dept. Epi., Vet. Med., Yamaguchi Univ., [5]Dept. Bacteriol. I, Natl. Inst. Infect. Dis.)

DP1-01-19/P1-011
Molecular epidemiological analysis of Legionnaires' disease in Toyama Prefecture, Japan
◯Jun-ichi Kanatani, Junko Isobe, Keiko Kimata, Kaho Ikeda, Kazuki Saito, Emi Maenishi, Kazunori Oishi (Dept. Bacteriol., Toyama Inst. Health)

DP1-02 Physiology / Structural biology 01

Wednesday, August 7 9:00–10:00
Digital Poster Group 2 (Main Hall)

Chair: Tsukasa Shiraishi (Sapporo Medical University)

DP1-02-01/P1-049
Serum albumin promotes reactivation of VBNC (viable but non-culturable) *Mycobacterium tuberculosis*
◯Yuta Morishige[1], Yoshiro Murase[1], Kinuyo Chikamatsu[1], Hiroyuki Yamada[1], Akio Aono[1], Yuriko Igarashi[1], Akiko Takaki[1], Satoshi Mitarai[1,2] ([1]Dept. Mycobac. Ref. Res., Res. Inst. Tubercul., JATA, [2]Dept. Basic Mycobacteriol., Grad. Sch. Biomed. Sci., Nagasaki Univ.)

DP1-02-02/P1-050
Malate dehydrogenase and malate: quinone oxidoreductase works as NADH oxidation system in C. jejuni
◯Augustin Kabongo[1,2], Rajib Acharjee[1,2], Sakura Takaya[1,2], Ozan Gundogdu[4], Tomoo Shiba[3], Kiyoshi Kita[5], Daniel Ken Inaoka[1,2] ([1]Dept. Glob. Health, Sch. Trop. Med. and Glob. Health, Nagasaki Univ., [2]Dept. Mol. Infect. Dyn., Inst. Trop. Med., Nagasaki Univ., [3]Grad. Sch. Sc. Tech., Kyoto Inst. Techn., [4]London Sch. Hyg. Trop. Med., [5]Dept. Host Defens. Biochem., Inst. Trop. Med., Nagasaki Univ.)

DP1-02-03/P1-051
Tolelance to oxidative stress by sulfide; quinone oxidoreductase in Mycobacterium smegmatis
◯Yuichi Matsuo[1], Tomoo Shiba[2], Kenji Iyoda[2], Uta Nakai[2], Akina Ota[2], Kiyoshi Kita[3,4], Daniel Ken Inaoka[3,5] ([1]Dept. Health Sciences., Sch. Med., Kumamoto Univ., [2]Dept. Appl. Biol., Grad. Sch. Sci. Technol., Kyoto Inst. Technol., [3]Sch. Trop. Med. and Glob. Health, Nagasaki Univ., [4]Dept. Host-Defense Biochem., Inst. of Trop. Med. (NEKKEN), Nagasaki Univ., [5]Dept. Molecular Infection Dynamics, Inst. of Trop. Med. (NEKKEN), Nagasaki Univ.)

DP1-02-04/P2-048
Exploring novel metabolism of modified nucleosides in bacteria
◯Kayo Nishiguchi[1,2], Yu Nagayoshi[1,2], Ryosuke Yamamura[1,2], Kazuhito Tomizawa[1] ([1]Dept. Mol. Physiol., Fac. Life. Sci., Kumamoto Univ., [2]Dept. Nephrol., Fac. Life. Sci., Kumamoto Univ.)

DP1-02-05/P2-049

Generation and physiological functions of cyclo-octasulfur conserved from bacteria to mammals

◯Tetsuro Matsunaga[1], Uladzimir Barayeu[1], Takayuki Shimizu[2], Masanobu Morita[1], Seiryo Ogata[1], Minkyung Jung[1], Shinji Masuda[3], Michito Yoshizawa[4], Hozumi Motohashi[5], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., [2]Fac. Div. Nat. Sci., Biol. Sci. Res. Group, Nara Women's Univ., [3]Sch. Life Sci. & Tech., Tokyo Tech, [4]Lab. Chem. Life Sci., Inst. Innov. Res., Tokyo Inst.Tech., [5]Dept. Med. Biochem., Tohoku Univ. Grad. Sch. Med.)

DP1-02-06/P2-050

Supersulfide activation and host defense through NADPH oxidase and NO synthase

◯Masanobu Morita[1], Tsuyoshi Takata[1], Tetsuro Matsunaga[1], Tomoaki Ida[1], Minkyung Jung[1], Yukihiro Tsuchiya[2], Yasuo Watanabe[2], Hozumi Motohashi[3], Hideki Sumimoto[4], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., [2]Dept. Pharm., Showa Pharm. Univ., [3]Dept. Gene Exp. Reg., IDAC, Tohoku Univ., [4]Dept. Biochem., Kyushu Univ., Grad. Sch. Med. Sci.)

DP1-02-07/P1-052

The Role of Morphological Adaptability in *Vibrio cholerae*'s Motility and Pathogenicity

◯Jun Xu[1], Keigo Abe[2], Toshio Kodama[3], Marzia Sultana[4], Erika Kuba[1], Shiyu Tsunoda[1], Shuichi Nakamura[2], Tetsu Yamashiro[1] ([1]Dept. Bacteriol., Grad. Sch. Med., Univ. Ryukyus, [2]Dept. Appl. Phys., Grad. Sch. Eng., Tohoku Univ., [3]NEKKEN, Grad. Sch. Med., Nagasaki Univ., [4]Infectious Diseases Division, ICDDR, B.)

DP1-02-08/P1-053

Distinct roles of sheath proteins in coiling and rigidity reinforcement of *Leptospira* flagella

◯Nobuo Koizumi[1], Akihiro Kawamoto[2], Toshiki Kuribayashi[3], Masatomo Morita[1], Shuichi Nakamura[3] ([1]Dept. Bactoriol. I, Natl. Inst. Infect. Dis., [2]IPR, Osaka Univ., [3]Dept. Appl. Phys., Tohoku Univ.)

DP1-02-09/P1-054

Water flow triggers adhesion of gliding bacteria to solid surfaces

◯Motomu Araki, Naoki Uemura, Daisuke Nakane (Dept. Eng. Sci., UEC)

DP1-02-10/P1-055

An outer membrane protein governs cell rigidity and swimming stability of *Leptospira interrogans*

◯Shuichi Nakamura[1], Keigo Abe[1], Hiroko Takazaki[2], Mika Hirose[2], Kyosuke Takabe[3], Takayuki Kato[2], Nobuo Koizumi[3] ([1]Grad. Sch. Eng., Tohoku Univ., [2]IPR, Osaka Univ., [3]Dept. Bactoriol. I, NIID)

DP1-02-11/P1-056

Correlation between morphological and motile traits indicated by artificial intelligence

◯Kyosuke Takabe[1], Souichi Ugawa[2], Nobuo Koizumi[1], Shuichi Nakamura[2] ([1]Dept. Bacteriol. I, NIID, [2]Dept. Appl. Phys., Grad. Sch. Eng., Tohoku Univ.)

DP1-02-12/P2-051

Investigation of cell motility mechanism of *Spiroplasma* using a minimal synthetic bacterium

◯Hana Kiyama[1], Shigeyuki Kakizawa[2], Daichi Takahashi[1,3], Makoto Miyata[1,4] ([1]Grad. Sch. Sci., Osaka Metropolitan Univ., [2]Bioproduction Res. Inst., AIST, [3]Res. Inst. Interdisciplinary Sci., Okayama Univ., [4]OCARINA, Osaka Metropolitan Univ.)

DP1-02-13/P2-052

Sheet-like structure of bacterial actin MreBs driving helicity switching by cryo electron tomography

◯Haruka Yuasa[1], Yuya Sasajima[1], Hana Kiyama[1], Daichi Takahashi[1,2], Takuma Toyonaga[1,3], Tomoko Miyata[4,5], Fumiaki Makino[4,5,6], Keiichi Namba[4,5], Makoto Miyata[1,3] ([1]Grad. Sch. Sci., Osaka Metropolitan Univ., [2]RIIS, Okayama Univ., [3]OCARINA, Osaka Metropolitan Univ., [4]Grad. Sch. Frontier Biosci., Osaka Univ., [5]JEOL YOKOGUSHI Res. Alliance Lab., Osaka Univ., [6]JEOL Ltd.)

DP1-02-14/P2-053

***Haloplasma* motility reconstituted in minimal synthetic bacterium, JCVI-syn3B**

◯Mone Mimura[1], Hana Kiyama[1], Shingo Kato[2], Yuya Sasajima[1], Atsuko Uenoyama[1], Shigeyuki Kakizawa[3], Tomoko Miyata[4], Fumiaki Makino[4], Keiichi Namba[4], Makoto Miyata[1,5] ([1]Grad. Sch. Sci., Osaka Metropolitan Univ., [2]RIKEN BRC., JCM, [3]Bioproduction Res. Inst., AIST, [4]Grad. Sch. Frontier Biosci., Osaka Univ., [5]OCARINA, Osaka Metropolitan Univ.)

DP1-02-15/P2-054

Stator dynamics of hybrid-fuel E. coli flagellar motor observed by fluorescence microscopy

◯Tomoya Shoji[1], Naoki Hidaka[2], Yong-Suk Che[3], Yoshiyuki Sowa[1,2] ([1]Dep. Front. Biosci., Hosei Univ., [2]Micro-Nano Tech., Hosei Univ., [3]Grad. Sch. Front. Biosci., Osaka Univ.)

DP1-02-16/P2-055

Inner cellular structure of Mycoplasma mobile gliding machinery observed by electron cryotomography

◯Minoru Fukushima[1], Tomoko Miyata[2,3], Keiichi Namba[2,3], Takuma Toyonaga[1], Makoto Miyata[1,4] ([1]Grad. Sch. Sci., Osaka Metropolitan Univ., [2]Grad. Sch. Frontier Biosci., Osaka Univ., [3]JEOL YOKOGUSHI Res. Alliance Lab., Osaka Univ., [4]OCARINA, Osaka Metropolitan Univ.)

DP1-02-17/P2-056

Visualization and analysis of MreBs driving *Spiroplasma* motility in minimal synthetic bacterium

◯Yoshiki Tanaka[1], Hana Kiyama[1], Takuma Toyonaga[1,2], Makoto Miyata[1,2] ([1]Grad. Sch. Sci., Osaka Metro Univ., [2]OCARINA, Osaka Metro Univ.)

DP1-03 Ecology 01

Wednesday, August 7 9:00–10:00
Digital Poster Group 3 (Main Hall)

Chair: Chie Nakajima (Hokkaido University)

DP1-03-01/P1-031

Reactivity of autologous serum IgG to gut microbes in pediatric ulcerative colitis patients

◯Tabassum Nafisa[1], Haruyuki Imaohji[1], Takeo Kondo[2], Sonoko Kondo[2], Emmanuel Munyeshyaka[1], Ayano Tada[1], Takashi Kusaka[2], Tomomi Kuwahara[1] ([1]Dept. Microbiol., Sch. Med., Kagawa Univ., [2]Dept. Pediatr., Sch. Med., Kagawa Univ.)

DP1-03-02/P1-033

Comparative analysis of Legionella symbiosis mechanisms between different protist hosts

◯Kenta Watanabe, Takashi Shimizu, Masahisa Watarai (Dept. Vet Med., Yamaguchi Univ.)

DP1-03-03/P2-031

The inhibition of Staphylococcus aureus by commensal bacterium via its metabolites

◯Akiko Tajima[1,2], Yuki Kinjo[1,2] ([1]Dept. Bacteriol. The Jikei Univ. Sch. Med., [2]Jikei Ctr. Biofilm Sci. & Tech.)

DP1-03-04/P2-032

Indoor Microbiome: Interactions with Occupants and Environmental Factors in Residential Settings

◯Jianjian Hou[1], Makiko Nakajima[2,3], So Fujiyoshi[1,2], Yukiko Nishiuchi[1], Daisuke Ogura[2,4], Fumito Maruyama[1,2] ([1]IDEC Inst., Hiroshima Univ., [2]CHOBE, Hiroshima Univ., [3]Fac. Engineer., Hiroshima Inst. Tech., [4]Grad. Sch. Engineer., Kyoto Univ.)

DP1-03-05/P2-033

Ingestion of *Campylobacter jejuni* by *Acanthamoeba polyphaga*

Mako Kitade[1], ◯Takaaki Shimohata[1,2] ([1]Marine-Bio, Fukui Prefectural Univ., [2]Dept. Prevent. Environ. Nutr., Inst. Biomed. Sci., Tokushima Univ. Grad. Sch.)

DP1-03-06/P2-034

Symbiotic bacteria break through narrow passage by flagellar wrapping

Aoba Yoshioka[1], Tetsuo Kan[2], Kazutaka Takeshita[3], Hirofumi Wada[4], Yoshitomo Kikuchi[5], ◯Daisuke Nakane[1] ([1]Dept. Eng. Sci., UEC, [2]Dept. Mech. Int. Sys. Eng., UEC, [3]Fac. Bioresour. Sci., Akita Pref. Univ., [4]Dept. Phys.. Ritsumeikan Univ., [5]Biopro. Res, Inst, AIST)

DP1-03-07/P2-035

Induction of antibiotic tolerance of Escherichia coli by microbial volatile organic compounds

◯Takehiko Kenzaka[1,2], Kaho Nishizawa[2], Natsumi Doi[2] ([1]Fac. Sci. Eng., Setsunan Univ., [2]Fac. Pharm., Osaka Ohtani Univ.)

DP1-03-08/P2-036

A challenge toward discover of symbiotic mechanism over Insects-Plants

◯Hiroyuki Morimura[1], Kazutaka Takeshita[2], Kota Ishigami[1,3], Yu Matsuura[4], Peter Mergaert[5], Yoshitomo Kikuchi[1,3] ([1]Bioprod. Res. Inst., AIST, [2]Dept. Biotech., Appl. Biol. Sci., Akita Pref. Univ., [3]Grad. Sch. Ag., Hokkaido Univ., [4]TBRC, Univ. Ryukyus, [5]I2BC, CNRS, Paris-Sacley Univ.)

DP1-03-09/P1-037

Dysbiosis of oral microbiome persists after treatment-induced remission of periodontal disease

◯Kazuma Yama, Takuya Inokuchi, Atsushi Sato, Kota Tsutsumi, Yasushi Kakizawa (R&D., Lion Corp.)

DP1-03-10/P1-038

An intestinal mucosa-associated bacterium which attenuates colitis

◯Jiayue Yang[1], Nozomu Obana[2,3], Gaku Nakato[4], Nobuhiko Nomura[3], Shinji Fukuda[1,5] ([1]Inst. Adv. Biosci., Keio Univ., [2]TMRC, Inst. Med., Univ. of Tsukuba, [3]Inst. Life Env. Sci., Univ. of Tsukuba, [4]KISTEC, [5]Metagen. Inc.)

DP1-03-11/P1-039

Gut microbiota controls the severity of dextran sulfate sodium-induced colitis in mice

◯Eri Ikeda[1], Masaya Yamaguchi[1,2,3,4], Shigetada Kawabata[1,3] ([1]Dept. Microbiol., Osaka Univ. Grad. Sch. Dent., [2]Bioinfo., Osaka Univ. Grad. Sch. Dent., [3]CiDER. Osaka Univ., [4]Bioinfo, RIMD, Osaka Univ.)

DP1-03-12/P1-040

Subgingival Plaque-Specific Bacteria in Severe Periodontitis Identified by Long-Read Sequencing

◯Jiale Ma, Shinya Kageyama, Mikari Asakawa, Toru Takeshita (Sect. Prev. Public Health Dent., Grad. Sch. Dent., Kyushu Univ.)

DP1-03-13/P1-041

Relationship between the skin bacterial community and skin condition

◯Ryosuke Kadoya, Ayano Kondo, Ayaka Matsukawa (Dept. Food and Nutrition, Sch. Life Studies, Sugiyama Jogakuen Univ.)

DP1-03-14/P1-042

Characterization and application of lytic bacteriophage to control *T. ramosa* in microbial consortia

◯Priyanka Baranwal, Kazuhiko Miyanaga, Yuya Hidaka, XinEe Tan, Kanate Thitiananpakorn, Yoshifumi Aiba, Shinya Watanabe, Longzhu Cui (Dept. Inf. Immunity., Sch. Med., Jichi Med. Univ.)

DP1-04　Pathogenicity 01

Wednesday, August 7　10:10–11:10
Digital Poster Group 1 (Main Hall)

Chair: Takashi Sasaki (Sapporo Medical University)

DP1-04-01
【Withdrawn】

DP1-04-02/P2-100
The role of TusDCB, a sulfur transferase complex on pathogenesis and microcolony formation in UPEC
◯Yumika Sato[1], Ayako Takita[1], Kazutomo Suzue[2], Yusuke Hashimoto[1], Suguru Hiramoto[3], Masami Murakami[3], Haruyoshi Tomita[1], Hidetada Hirakawa[1] ([1]Dept. Bacteriol., Sch. Med., Gunma Univ., [2]Dept. Host Def., Sch. Med., Gunma Univ., [3]Dept. Clin. Lab. Med., Sch. Med., Gunma Univ.)

DP1-04-03/P2-101
In silico analysis of genetic diversity in chaperone-usher fimbria of E.coli from human samples
◯Hiharu Inoue[1], Takayuki Wada[1,2] ([1]Dept. Microbiol., Grad. Sch. Hum. Life Ecol., Osaka Metropolitan Univ., [2]Osaka Intl. Res. Ctr. Infect. Dis.)

DP1-04-04/P2-102
Assembly mechanism and structural insights into the Mfa1 minor pilus from *Porphyromonas gingivalis*
◯Satoshi Shibata[1,2], Hideyuki Matsunami[2], Kazuhisa Ouhara[4], Yuri Taniguchi[4], Mikio Shoji[3], Matthias Wolf[2] ([1]Div. Bacteriol, Dept. Microbiol. Immunol., Med., Tottori Univ., [2]Molecular Cryo-Electron Microscopy Unit, OIST, [3]Dept. Microbiol. Oral Infect., Grad. Sch. Bio. Sci., Nagasaki Univ., [4]Dept. Periodontal Medicine, Grad. Sch. Biomed. and Health Sci., Hiroshima Univ.)

DP1-04-05/P2-103
Identification of diffusely adherent *Escherichia albertii* from raccoon
◯Atsushi Hinenoya[1], Sharda Awasthi[1,2,3], Noritoshi Hatanaka[1,2,3], Shinji Yamasaki[1,2,3] ([1]Grad. Sch. Vet. Sci., Osaka Metro. Univ., [2]Asian Health Sci. Res. Inst., Osaka Metro. Univ., [3]Osaka Int. Res. Cent. Infect. Dis., Osaka Metro. Univ.)

DP1-04-06/P1-098
Biofilm formation of *A. acitnomycetemcomitans* associates with genes expression regulated by Hfq
◯Yuichi Oogai, Airi Matsumoto, Masanobu Nakata (Dept. Oral-Microbiol., Sch. Med. and Dent., Kagoshima Univ.)

DP1-04-07/P1-099
Identification of *Clostridium perfringens* FbpA binding site to dermatopontin
◯Nozomu Matsunaga, Akiba Endo, Yasuo Hitsumoto, Seiichi Katayama (Dept. Life Sci., Fac. Sci., Okayama Univ. Sci.)

DP1-04-08/P1-100
Colocalization of GAPDH and autolysin on the *Clostridium perfringens* cell surface
◯Riyo Aono[1,2], Nozomu Matsunaga[1], Yasuo Hitsumoto[1], Seiichi Katayama[1] ([1]Dept. Life Sci., Fac. Sci., Okayama Univ. of Sci., [2]Dept. Med. Tech., Kagawa Pref. Univ. of Health Sci.)

DP1-04-09/P1-101
ETEC colonization factor CS6 binds to β-actin and myosin-9 on epithelial cells
◯Alafate Ayibieke, Takaki Nishi, Takashi Hamabata (Dept. Infect. Dis., RI., NCGM)

DP1-04-10/P1-102
Clarification of the colonization mechanism of vaginal *Lactobacillus* on the vaginal Mucosa
◯Kirika Yoshioka, Masahiro Ito, Riho Tabata, Tsuyoshi Miki, Takeshi Haneda, Nobuhiko Okada (Dept. Microbiol., Sch. Pha., Kitasato Univ.)

DP1-04-11/P1-103
The role of lipoprotein signal peptidase in the innate immune stimulatory activity of pneumococci
◯Hisanori Domon[1,2], Satoru Hirayama[1], Toshihito Isono[1], Rui Saito[1], Katsunori Yanagihara[3], Yutaka Terao[1,2] ([1]Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch. Med. Dent. Sci., [2]Cent. for Adv. Oral Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci., [3]Dept. Lab. Med., Nagasaki Univ. Grad. Sch. Biomed. Sci.)

DP1-04-12/P1-104
Alteration of gene expression in macrophages by D-amino acids from *Mycobacterium avium* complex
◯Yutaka Tatano[1], Tatsuo Munakata[1], Madoka Sawai[1], Hideki Yagi[2], Chiaki Sano[3], Haruaki Tomioka[4] ([1]Dept. Pharm. Sci., Sch. Pharm. Fukuoka., IUHW., [2]Dept. Pharm. Sci., Sch. Pharm., IUHW, [3]Dept. Community. Med. Mgt., Fac. Med., Shimane Univ., [4]Fac. Med., Shimane Univ.)

DP1-04-13/P1-105
Investigation of LCV-mitochondria communication machinery through Rab32 function
◯Hiromu Oide, Kohei Arasaki (Dept. Mol. Cell Biol., Sch. Life Sci., Tokyo Univ. Pharm and Life Sci.)

DP1-04-14
【Withdrawn】

DP1-04-15/P1-107
The analysis of C-terminal side domain of MARTX toxin produced by *Vibrio vulnificus*
◯Nene Kurata[1], Shoko Takeuchi[1], Takahiro Tsuchiya[1,2], Katsushiro Miyamoto[1], Jun Komano[1], Hiroshi Tsujibo[1] ([1]Dept. Microbiol. Infect. Cont., Osaka Med. Pharm. Univ., [2]Ctr. Advance. Pharm. Educ., Osaka Med. Pharm. Univ.)

DP1-04-16/P1-196

A water-in-oil droplet-based method for detecting and isolating infectious bacteriophage particles

○Miu Hoshino[1], Yuri Ota[2,3], Tetsushi Suyama[2], Yuji Morishita[3], Satoshi Tsuneda[4], Naohiro Noda[1,2,4] ([1]Dept. CBMS, Grad. Sch. Frontier Sci., Univ. Tokyo, [2]Biomed. Res. Inst., Natl. Inst. of Adv. Sci. & Tech. (AIST), [3]On-chip Biotechnologies Co., Ltd., [4]Dept. Adv. Sci. & Eng., Grad. Sch. Adv. Sci. & Eng., Waseda Univ.)

DP1-05 Host defense 01

Wednesday, August 7 10:10–11:10
Digital Poster Group 2 (Main Hall)

Chair: Tomoyuki Yamaguchi (Rakuno Gakuen University)

DP1-05-01/P2-133

Alendronate augments lipid A-induced IL-1β release via activation of ASC or AP-1, but not caspase-11

○Riyoko Tamai, Yusuke Kiyoura (Dept. Oral Med. Sci., Sch. Dent., Ohu Univ.)

DP1-05-02/P2-134

Detection of bacteria by immune activating receptor via plasma components

○Yifan Li[1], Kouyuki Hirayasu[1], Gen Hasegawa[1], Yosei Tomita[2], Yuko Hashikawa[3], Hisashi Arase[4,5], Rikinari Hanayama[1,3] ([1]Adv. Prev. Med. Sci. Res. Cen., Kanazawa Univ., [2]Dept. Immunol., Med. Pharm., Kanazawa Univ., [3]NanoLSI., Kanazawa Univ., [4]Dept. Immunochem., RIMD, Osaka Univ., [5]Lab. Immunochem., IFReC, Osaka Univ.)

DP1-05-03/P2-135

Growth of S. pneumoniae colonized in the nasopharynx associated with RSV infection

○Saki Ishikawa[1], Nanami Okada[2], Yuzu Fukui[2], Shigeki Nakamura[1], Toshihiro Ito[2], Takehiko Shibata[1] ([1]Dept. Microbiol., Sch. Med., Tokyo Med. Univ., [2]Dept. Immunol., Sch. Med., Nara Med. Univ.)

DP1-05-04/P2-136

A balance of paired immune receptors and bacterial pathogenicity

○Gen Hasegawa[1], Kouyuki Hirayasu[1], Yifan Li[1], Hisashi Arase[2,3,4], Masaya Yamaguchi[4,5,6,7], Shigetada Kawabata[4,7], Rikinari Hanayama[1] ([1]Adv. Prev. Med. Sci. Res. Cen., Kanazawa Univ., [2]Dept. Immunochem., RIMD, Osaka Univ., [3]Lab. Immunochem., IFReC, Osaka Univ., [4]CiDER, Osaka Univ., [5]Bioinform. Res. Unit, Osaka Univ. Grad. Sch. Dent., [6]Bioinform. Cent., RIMD, Osaka Univ., [7]Dept. Microbiol., Osaka Univ. Grad. Sch. Dent.)

DP1-05-05/P2-138

Rab13 GTPase is involved in ubiquitin-mediated recognition of Group A Streptococcus in xenophagy

○Xin Hu, Min Wu, Junpei Iibushi, Atsuko Nozawa, Kazunori Murase, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

DP1-05-06/P1-132

Tannerella forsythia induces inflammasome activation by triggering both NLRP3 and Caspase-4

○Chenwei Hsu, Tokuju Okano, Toshihiko Suzuki (Dept. Bact. Pathogenesis, TMDU)

DP1-05-07/P1-133

Two sub-families of NF-κB are activated in macrophages infected with *M. bovis* BCG

○Akari Shinohara[1], Yasuhiko Horiguchi[2], Mayuko Osada-Oka[3] ([1]Food Hyg. Health., Agric. Food. Sci., Kyoto Pref. Univ., [2]Dept. Mol. Bact., RIMD, Osaka Univ., [3]Food Hyg. Env. Health., Grad. Sch. Life Env. Sci., Kyoto Pref. Univ.)

DP1-05-08/P1-134

Selection of a lactic acid bacterium that produces membrane vesicles under aerobic conditions

○Hinako Inagaki[1], Mizuki Kanno[2], Hiroyuki Futamata[1,2,3], Yosuke Tashiro[1,2] ([1]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ, [2]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ., [3]Res. Inst. Green. Sci. Tech. Shizuoka Univ.)

DP1-05-09/P1-135

Modification of *E. coli* lipidA using palmitoyltransferase genes cloned in low-copy number plasmids

○Yuki Nonaka, Sho Noguchi, Eri Tanaka, Sakura Onoue, Kazuyoshi Kawahara (Dept. Biosci., Col. Sci. Eng., Kanto Gakuin Univ.)

DP1-05-10/P1-136

Induction of antibody production by antigen proteins encapsulated in E. coli outer membrane vesicles

○Ryunosuke Tominaga[1,2], Kimihiro Abe[1], Tomoyo Nakamura[2,3], Tomohiko Nishino[2,3], Takehiro Yamaguchi[1], Yukihiro Akeda[1], Ryoma Nakao[1] ([1]Dept. Bacteriol. I, Natl. Inst. Infect. Dis., [2]Grad. Sch. Bionics., Tokyo Univ. Technol., [3]Sch. Biosci. Biotechnol., Tokyo Univ. Technol.)

DP1-05-11/P1-137

Induction of Immune Priming in the silkworm, Bombyx mori, by chitin-derived oligosaccharide

○Kazuhiro Mikami[1], Fumiaki Tabuchi[2], Masaki Ishii[3], Atsushi Miyashita[2] ([1]Dept. Med. Tech., Grad. Sch. Clinical Lab Sci., Teikyo Univ., [2]Lab. Antifungal Immunobiol., Inst. Med. Mycol., Teikyo Univ., [3]Lab. Mol. Cell Biol., Sch. Pharm., Musashino Univ.)

DP1-05-12/P1-138
Search for essential oils that confer infection resistance through the innate immune system
◯Naho Maruyama[1,2], Atsushi Miyashita[1] ([1]Teikyo Univ. Inst. Medical Mycology, [2]Dept. Health and Dietetics, Teikyo Heisei Univ.)

DP1-05-13/P1-139
Delivering of antibodies into neuron by chimeric-toxin: a follow-up study in rodent models
◯Shin-Ichiro Miyashita, Akane Kanazawa, Rintaro Ohno, Yoshimasa Sagane (Dept. Food Aroma Cosme. Chem., Fac. Bio-ind., Tokyo NODAI)

DP1-05-14/P1-140
***Salmonella* eliminating mechanism introduced by vaccination**
◯Momoko Nakayama[1], Masahiro Eguchi[1], Yohsuke Ogawa[2] ([1]National Inst. Animal Health, NARO, [2]National Inst. Animal Health, NARO)

DP1-05-15/P1-141
Single cell RNA sequencing of necrotic granulomas in active tuberculosis mouse model
◯Shintaro Seto, Minako Hijikata, Naoto Keicho (Dept. Pathophysiol. Host Defense, RIT)

DP1-05-16/P1-142
Impact of lactoferrin on the interaction between vaginal *Lactobacillus crispatus* and vaginal mucosa
◯Masahiro Ito, Riho Tabata, Tsuyoshi Miki, Takeshi Haneda, Nobuhiko Okada (Dept. Microbiol., Sch. Pha., Kitasato Univ.)

DP1-05-17/P1-143
A standardized evaluation method for bacterial UV sensitivity using light-emitting diodes
◯Kai Ishida[1], Yushi Onoda[1,3], Yasuko Ishikawa[1], Toshihiko Aizawa[3], Shigeharu Yamauchi[3], Yasuo Fujikawa[3], Tomotake Tanaka[3], Takashi Uebanso[1,2], Kazuaki Mawatari[1,2], Akira Takahashi[1,2] ([1]Dept. Microbiol. Cont., Inst. Biomed Sci., Tokushima Univ., [2]Dept. Prev Environ Nutr., Inst. Biomed Sci., Tokushima Univ., [3]Nichia Corp.)

DP1-06　Antimicrobial agents and resistance 01

Wednesday, August 7　10:10–11:10
Digital Poster Group 3 (Main Hall)

Chair: Masato Akiba (Rakuno Gakuen University)

DP1-06-01/P2-152
Effects of β-caryophyllene on antimicrobial susceptibility of MRSA
◯Harue Nomura[1], Katsuya Sakuma[2], Yasunori Isshiki[1] ([1]Dept. Microbiol., Sch. Pharm., Josai Univ., [2]Ogawa & Co., Ltd.)

DP1-06-02/P2-153
Antibacterial effect of Lonicera caerulea fruit against vancomycin-resistant enterococci
◯Masaaki Minami[1], Mineo Nakamura[2] ([1]Dept. Bacteriol. Nagoya City Univ. Grad. Sch. Med., [2]Nakamura Pharm.)

DP1-06-03/P2-154
The development of inhibitors that regulate the function of a sugar-binding protein of *S. pyogenes*
◯Tsukushi Yamawaki[1], Makoto Nakakido[1], Satoru Nagatoishi[1], Chihiro Aikawa[2], Jose Caaveiro[3], Ichiro Nakagawa[4], Kouhei Tsumoto[1,5] ([1]Sch. Eng., The Univ. of Tokyo, [2]Sch. Agri., Obihiro Univ., [3]Grad. Sch. Pharm. Sci., Kyusyu Univ., [4]Sch. Med., Univ. of Kyoto, [5]Inst. of Med. Sci., The Univ. of Tokyo)

DP1-06-04/P2-155
Lonidamine as an inactivator for the BvgAS system of *Bordetella pertussis*
◯Natsuko Ota[1], Toshiya Ueno[1], Yukihiro Hiramatsu[1], Yasuhiko Horiguchi[1,2] ([1]Dept. Mol. Bacteriol., RIMD., Osaka Univ., [2]CiDER., Osaka Univ.)

DP1-06-05/P2-156
Isolation and characterization of a useful broad-host-range prophage from E. coli
◯Jastin Edrian Revilleza, Ho Thi My Duyen, Kanate Thitiananpakorn, Ola Alessa, Yoshifumi Aiba, Shinya Watanabe, Kazuhiko Miyanaga, Srivani Veeranarayanan, XinEe Tan, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

DP1-06-06/P2-157
Analysis of the effect of β-glycyrrhetinic acid on human supragingival biofilms
◯Shinya Kato[1,2], Xiangtao Ma[1], Kayo Satou[3], Aya Okumura[3], Kenji Yoshimura[3], Nobuo Yoshinari[1,2], Akihiro Yoshida[1,4] ([1]Dept. Oral Health Sci., Grad. Sch. Matsumoto Dent. Univ., [2]Dept. Periodontol., Matsumoto Dent. Univ., [3]Human Health Care Products Research, Kao Corporation, [4]Dept. Microbiol., Matsumoto Dent. Univ.)

DP1-06-07/P2-158
Photothermal Ablation of Pseudomonas aeruginosa biofilms by Phage Gold Nanorod Bioconjugates
◯Sarangi Jayathilake, Tomofumi Kawaguchi, Srivani Veeranarayanan, Kanate Thitiananpakorn, Shinya Watanabe, XinEe Tan, Yoshifumi Aiba, Kazuhiko Miyanaga, Longzhu Cui (Dept. Bacteriol., Sch. Med., Jichi Med. Univ)

DP1-06-08/P2-159

Antibacterial activity of fatty acids against Staphylococcus aureus and Streptococcus pyogenes

○Keijuro Ohdan[1,2], Yujin Suzuki[1], Miki Matsuo[1,3], Nguyen Tra Mi Le[1,3], Chika Arai[3,4], Junzo Hisatsune[3,4], Yo Sugawara[3,4], Tomonao Aikawa[2], Motoyuki Sugai[3,4], Hitoshi Komatsuzawa[1,3] ([1]Dept. Bacteriol., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., [2]Dept. Oral and Maxillofacial Surgery, Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., [3]Proj. Res. Ctr. for Nosocominal Infectious Diseases, Hiroshima Univ., [4]Antimicrobial Resistance Res. Ctr., National Inst. Infectious Diseases)

DP1-06-09/P2-161

WQ-3810: A Novel Fluoroquinolone Exhibiting Potency Against Fluoroquinolone-Resistant *M. avium*

○Sasini Jayaweera[1], Jeewan Thapa[1], Chie Nakajima[1,2], Yasuhiko Suzuki[1,2] ([1]Div. Bioresources, International Inst. for Zoonosis Control, Hokkaido Univ., [2]Inst. Vaccine Research and Development, Hokkaido Univ.)

DP1-06-10/P2-162

Development and Evaluation of Antibacterial Capsids Against Drug-Resistant *Pseudomonas aeruginosa*

○Tomofumi Kawaguchi[1], Shinya Watanabe[1], Yi Liu[1], Kotaro Kiga[1,2], XinEe Tan[1], Longzhu Cui[1] ([1]Div. Bacteriol, Sch. Med., Jichi Med. Univ., [2]Drug and Vaccine Development, NIID)

DP1-06-11/P2-163

Quorum-sensing inhibitor furanone C-30 increases nitrosative stress susceptibility of *P. aeruginosa*

○Shin Suzuki[1,3], Yuji Morita[2], Shota Ishige[1], Kiyohiro Kai[1], Kenji Kawasaki[3], Kazuyuki Matsushita[3], Kohei Ogura[4], Tohru Miyoshi-Akiyama[5], Takeshi Shimizu[1] ([1]Dept. Molecular Infectiology, Grad. Sch. Medicine, Chiba Univ., [2]Dept. Infection Control Science, Meiji Pharmaceutical Univ., [3]Dept. Laboratory Medicine, Chiba Univ. Hospital, [4]Div. Food Science and Biotechnology, Grad. Sch. Agriculture, Kyoto Univ., [5]Dept. Infect. Dis, Nat. Center. Global Health Med.)

DP1-06-12/P2-164

Distribution and antibacterial activity of bacteriocin genes in clinical isolates of Enterococci

○Ayumi Fujii[1,2], Miki Matsuo[1,3], Nguyen Tra Mi Le[1,3], Chika Arai[3,4], Junzo Hisatsune[3,4], Yo Sugawara[4], Tomonao Aikawa[2], Motoyuki Sugai[3,4], Hitoshi Komatsuzawa[1,3] ([1]Dept. Bacteriol., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., [2]Dept. Oral and Maxillofacial Surgery., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., [3]Project Research Center for Nosocomial Infectious Diseases, Hiroshima Univ., [4]Antimicrobial Resistance Research Ctr., National Inst. Infectious Diseases)

DP1-06-13/P2-165

Optimizing Cas13 variants in engineered bacteriophages for potent bactericidal activity against MRSA

○Adeline Yeo Syin Lian, Shinya Watanabe, Kazuhiko Miyanaga, Yoshifumi Aiba, XinEe Tan, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

DP1-06-14/P1-153

Isolation and Characterization of Broad-Host-Range Prophages Against MRSA

○Tergel Nayanjin, XinEe Tan, Anujin Batbold, Shinya Watanabe, Yoshifumi Aiba, Kazuhiko Miyanaga, Teppei Sasahara, Srivani Veeranarayanan, Kanate Thitiananpakorn, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

DP1-06-15/P1-154

Regulation of Staphylococcus aureus growth by Pseudomonas aeruginosa extracellular vesicles

○Phawinee Subsomwong[1], Takahito Ishiai[1], Kouji Narita[2], Akio Nakane[3,4], Krisana Asano[1,3] ([1]Dept. Microbiol. Immunol., Hirosaki Univ. Grad. Sch. Med., [2]Inst. Anim. Exp., Hirosaki Univ. Grad. Sch. Med., [3]Dept. Biopolym. Health Sci., Hirosaki Univ. Grad. Sch. Med., [4]Hirosaki Univ. Health Welf.)

DP1-06-16/P1-155

Antimicrobial Activity of Bahia Propolis and its Fractionation Effects on Oral Bacteria

○Hiroki Takigawa[1], Chiho Mashimo[1], Shiho Ikegami[2], Ayanori Yamaki[2], Hugo Maruyama[1], Takayuki Nambu[1], Toshinori Okinaga[1] ([1]Dept. Bact., Sch. Dent., Osaka Dent Univ., [2]Yamada Bee Company Health Science Labo.)

DP1-06-17/P1-156

Antimycobacterial activities of tanshinones and speculations on their mechanism of action

○Shigetarou Mori[1], Toshiki Tamura[2], Yumi Maeda[2], Yumiko Tsukamoto[2], Manabu Ato[2], Tsuyoshi Kenri[1] ([1]Dept. Bacteriology II, NIID, [2]Dept. Mycobacteriology, LRC, NIID)

DP1-07 Taxonomy / Epidemiology / Infectious diseases 02

Wednesday, August 7 13:00–14:00
Digital Poster Group 1 (Main Hall)

Chair: Akira Fukuda (Rakuno Gakuen University)

DP1-07-01/P1-012

Current trends in serotype distribution of *Streptococcus pneumoniae* isolated from children in 2023

○Mitsuyo Kawaguchiya[1], Noriko Urushibara[1], Meiji Soe Aung[1], Nobuhide Ohashi[1], Yuuki Kimura[2], Yuuka Horino[2], Masahiko Ito[2], Nobumichi Kobayashi[1] ([1]Dept. Hygiene, Sapporo Medical Univ. Sch. Med., [2]Sapporo Clinical Laboratory Inc.)

DP1-07-02/P2-013
Genomic characteristics and drug susceptibility of *Helicobacter suis* from humans, monkeys, and pigs
◯Emiko Rimbara[1], Masato Suzuki[2], Sae Aoki[1], Hidenori Matsui[1], Keigo Shibayama[3], Tsuyoshi Kenri[1] ([1]Dept. Bacteriol. II, Nat. Inst. Infect. Dis., [2]Antimicrob. Resist. Res. Cent., Nat. Inst. Infect. Dis., [3]Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

DP1-07-03/P1-014
Molecular epidemiology of methicillin-resistant *Staphylococcus pseudintermedius* in canine pyoderma
◯Takashi Sasaki[1], Masahiro Yamasaki[2], Kazuki Harada[3], Koji Nishifuji[4] ([1]Animal Research Center, Sch. Med., Sapporo Med. Univ., [2]Lab. Vet. Small Animal Int. Med., Facult. Agr., Iwate Univ., [3]Dept. Vet. Int. Med., Facult. Agr., Tottori Univ., [4]Div. Animal Life Sci., Fac. Agr., Tokyo Univ. of Agriculture and Tech.)

DP1-07-04/P1-015
Whole genome sequence analysis of extensively drug-resistant *Acinetobacter baumannii* ST1050
◯Satoshi Nishida[1], Yasuo Ono[1,2], Yusuke Yoshino[1] ([1]Dept. Microbiol. Immunol., Sch. Med., Teikyo Univ., [2]Fac. Health Med. Sci., Teikyo Heisei Univ.)

DP1-07-05/P1-016
Specific clonal types of MRSA associated with skin and soft tissue infections
Hiroshi Kaneko, Hana Kobayashi, Shogo Otake, Yuka Yanagi, Takumi Saito, Miki Kanai, ◯Hidemasa Nakaminami (Dept. Clin. Microbiol., Sch. Pharm., Tokyo Univ. Pharm. and Life Sci.)

DP1-07-06/P2-009
Comparative genomics of whole genome and Shiga toxin phage of EHEC from bovine and human
◯Ken-ichi Lee[1], Sunao Iyoda[1], Hidemasa Izumiya[1], Takehiro Nazuka[2], Masahiro Kusumoto[3], Masato Akiba[4], Yo Sugawara[5], Motoyuki Sugai[5], Yukihiro Akeda[1] ([1]Dept. Bacteriol. 1, Natl. Inst. Infect. Dis., [2]Meat Hygiene Inspect., Saitama City, [3]Natl. Inst. Animal Health, NARO, [4]Vet. Bacteriol., Rakuno Univ., [5]AMR Center, Natl. Inst. Infect. Dis.)

DP1-07-07/P2-010
Epidemiological shifts in and impact of COVID-19 on streptococcal toxic shock syndrome
◯Tadayoshi Ikebe[1], Takahiro Yamaguchi[2], Rumi Okuno[3], Hitoshi Otsuka[4], Akito Mizokoshi[5], Kaho Ikeda[5], Nanako Watanabe[5], Yoshimi Date[5], Yukihiro Akeda[1] ([1]Dept. Bacterol. I, NIID, [2]Div. Microbiol., Osaka Inst. Public Health, [3]Dept. Microbiol., Tokyo Metr. Inst. Pub. Health, [4]Dept. Pub. Health Sci., Yamaguchi Pref. Inst. Pub. Health & Env., [5]The Working Group for Beta-Hemolytic Streptococci in Japan)

DP1-07-08/P2-011
Characterization of *Clostridium tetani* detected from the soil in Kagoshima prefecture
◯Tadasuke Ooka[1], Chie Shitada[2], Takatoshi Yamamoto[2], Chiyomi Sakamoto[2], Chihiro Horiba[3], Makoto Kuroda[3], Junichiro Nishi[1], Motohide Takahashi[2] ([1]Dept. Microbiol., Grad. Sch. Med. Dent. Sci., Kagoshima Univ., [2]Tox. Biol. Res. Lab., Kumamoto Heal. Sci. Univ., [3]Pathogen Genomics Center, NIID)

DP1-07-09/P2-012
Genetic analysis of coagulase-negative staphylococci colonizing healthy adults
◯Mina Hirose[1], Meiji Soe Aung[2], Nobumichi Kobayashi[2] ([1]Dept. Ped. Dent., Div. Oral Growth and Development, Sch. Dent., Health Sciences Univ. Hokkaido, [2]Dept. Hygiene. Sch. Med. Sapporo Med. Univ.)

DP1-07-10/P2-014
Characteristics of Staphylococcaceae in Retail Meat Products in Hokkaido: A One Health Perspective
◯Noriko Urushibara[1], Meiji Soe Aung[1], Mitsuyo Kawaguchiya[1], Nobuhide Ohashi[1,2], Nobumichi Kobayashi[1] ([1]Dept. Hygiene, Sch. Med., Sapporo Med. Univ., [2]Dept. Oral Surgery, Sch. Med., Sapporo Med. Univ.)

DP1-07-11/P2-015
Survey of ESBL-producing *Escherichia coli* and MRSA from wastewater in Saitama, Japan
◯Miyo Murai[1], Hiroki Murayama[1], Hikari Takino[1], Yo Sugawara[2], Liansheng Yu[2], Shizuo Kayama[2], Junzo Hisatsune[2], Kozue Kishii[1] ([1]Dept. Health Soci. Serv., Grad. Sch. Saitama Pref. Univ., [2]AMR-RC, NIID)

DP1-07-12/P2-017
Comparison of human- and bird-derived strains of Escherichia albertii in Hokkaido
◯Rin Satoh[1], Masahiko Ito[2], Takahiro Kinebuchi[3], Yosie Sakurai[4], Tetsuya Ikeda[1] ([1]Div. Bacterial., Hokkaido Inst. Pablic Health, [2]Sapporo Clinical Laboratory Inc., [3]Furano Hosp., Hokkaido Institutional Society, [4]Natl. Inst. of Animal Industry., Hokkaido Research Organization)

DP1-07-13
【Withdrawn】

DP1-07-14/P1-019

Characterization of GN-ARB from nasal and oral cavities and their relationship to bacterial flora

◯Tomoki Kawayanagi[1,2], Miki Matsuo[2,3], Nguyen Tra Mi Le[2,3], Mikari Asakawa[4], Yo Sugawara[5], Chika Arai[5], Toru Takeshita[4], Hideki Shiba[1], Motoyuki Sugai[5], Hitoshi Komatsuzawa[2,3] ([1]Dept. Biological Endodont., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., [2]Dept. Bacteriol., Grad. Sch. Biomed., Hiroshima Univ., [3]Project. Research Center for Oral Infectious Diseases., Hiroshima Univ., [4]Sec. Preventive & Public Health Dentist., Div. Oral Health., Growth and Deve., Kyushu Univ., [5]Antimicrobial Resistance Research Ctr., National Inst. Infectious Dis.)

DP1-07-15

【Withdrawn】

DP1-07-16/P2-016

Prevalence and characteristics of *Escherichia fergusonii* isolated from farm animals in Japan

◯Anna Momoki[1], Yukino Tamamura-Andoh[1], Nobuo Arai[1], Taketoshi Iwata[1], Ayako Watanabe-Yanai[1], Masahiro Kusumoto[1,2] ([1]Natl. Inst. Anim. Health, NARO., [2]Grad. Sch. Vet. Sci., Osaka Metro. Univ.)

DP1-07-17/P2-018

Genetic Characteristics of ESBL-producing *Escherichia coli* isolated from bloodstream infections

◯Mayuko Tanaka[1], Tomoya Suda[1], Kohei Kondo[2], Aa Haeruman Azam[3], Minh Le Nhat[2], Ryu Yashiro[4], Yasunori Tanji[5], Kotaro Kiga[3], Takeaki Matsuda[1,5], Tomoko Hanawa[1] ([1]Dept. Gen. Med., Kyorin Univ. Sch. Med., [2]AMR Res. Cent., Natl. Inst. Infect. Dis., [3]Res. Cent. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [4]Leprosy Res. Cent., Natl. Inst. Infect. Dis., [5]Dept. Traum. Crit. Care Med., Kyorin Univ. Sch. Med.)

DP1-07-18/P2-019

Pathogenicity of the novel *Helicobacter* spp. infecting the stomach of dogs and cats in Japan

◯Sae Aoki[1], Masato Suzuki[2], Hidenori Matsui[1], Shigetarou Mori[1], Keigo Shibayama[3], Tsuyoshi Kenri[1], Emiko Rimbara[1] ([1]Dept. Bacteriol. II, NIID, [2]Antimicrobial. Resist. Res. Cent., NIID, [3]Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

DP1-07-19/P2-020

Detection of M1UK from *emm1* type group A *Streptococcus pyogenes* isolated in Osaka

◯Takahiro Yamaguchi[1,2], Masaki Anraku[1], Kaori Yamamoto[1], Takeshi Doi[1], Tetsuya Harada[1], Ryuji Kawahara[1], Tadayoshi Ikebe[2], Takao Kawai[1] ([1]Div. Microbiol., Osaka Inst. Public Health, [2]Dept. Bacteriol. I, Natl. Inst. Infect. Dis.)

DP1-08 Physiology / Structural biology 02

Wednesday, August 7 13:00–14:00
Digital Poster Group 2 (Main Hall)

Chair: Hiroyuki Yamaguchi (Hokkaido University)

DP1-08-01/P1-059

A lipoprotein involved in membrane vesicle-mediated iron acquisition in Corynebacterium glutamicum

◯Mao Fujita[1], Toshiki Nagakubo[2,3], Kayuki Kawashima[1], Nobuhiko Nomura[2,3], Masanori Toyofuku[2,3] ([1]Grad. Sch. Life Environ. Sci., Univ. Tsukuba, [2]Fac. Life and Environ. Sci., Univ. Tsukuba, [3]MiCS (Microbiology research Center for Sustainability), Univ. Tsukuba)

DP1-08-02/P1-060

Chemotaxis and motilities of *Clostridium botulinum* and *Clostridium sporogenes*

◯So-ichiro Nishiyama, Shohei Koike, Nao Iwahashi (Fac. App. Life Sci., Niigata Univ. Pharm. Med. Life Sci.)

DP1-08-03/P1-061

Exploration of target molecules involved in the MAPK and PI3K-AKT pathway used by C. trachomatis

◯Sora Kuroiwa, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

DP1-08-04/P1-062

Distinct iron-responsive regulation by Fur1 and Fur2 in *Ralstonia pseudosolanacearum* strain OE1-1

◯Sora Tateda, Tatsuya Ueyama, Akinori Kiba, Kouhei Ohnishi, Yasufumi Hikichi, Masayuki Tsuzuki (Fac. Agric. and Mar. Sci., Kochi Univ.)

DP1-08-05/P2-057

Induction of the *Vibrio cholerae* taurine chemoreceptor gene in higher temperature

◯Sachika Sato[1], Natsu Yamauchi[1], Shiori Onogi[1], Hirotaka Tajima[2,3], Ikuro Kawagishi[1,2,3] ([1]Grad. Sch. Sci. Eng., Hosei Univ., [2]Dept. Frontier Biosci., Hosei Univ., [3]Res. Cen. Micro-Nano Tech., Hosei Univ.)

DP1-08-06/P2-058

Quorum sensing-independent virulence regulation pathway in Ralstonia pseudosolanacearum strain OE1-1

◯Tatsuya Ueyama[1], Sora Tateda[1], Akinori Kiba[1], Kouhei Ohnishi[1], Kanako Inoue[2], Yasufumi Hikichi[1], Masayuki Tsuzuki[1] ([1]Fac. Agric. Marine Sci., Kochi Univ., [2]Div. Bio. Sci., NAIST)

DP1-08-07/P2-059
The histidine kinase BaeS senses indole in its cytoplasmic domain
○Hirotaka Tajima[1,2], Kentaro Yamamoto[3], Tomoka Iseri[1], Riku Takei[4], Ikuro Kawagishi[1,2,4] ([1]Dept. Frontier Biosci., Hosei Univ., [2]Res. Cen. Micro-Nano Tech., Hosei Univ., [3]Dept. Mycobacteriol., Lepr. Res. Ctr., NIID, [4]Grad. Sch. Sci. Eng., Hosei Univ.)

DP1-08-08/P2-060
Screening for biofilm inhibitors from microorganisms isolated in Antarctica
○Hiroyuki Azakami[1,2], Hayato Kinoshita[2], Ayesha Siddiqa[2], Shohei Hayashi[3] ([1]Res. Cent. Thermotolerant Microb. Resources, Yamaguchi Univ., [2]Dept. Biol. Chem., Fac. Agr., Yamaguchi Univ., [3]Dept. Env. Sustain. Sci., Fac. Life Env. Sci., Shimane Univ.)

DP1-08-09/P2-061
RcsG, conserved connector transmitting a novel sugar stimulus from PTS to TCS
○Kazunobu Yamaguchi, Naoko Hozan, Kei Hagihara, Tomoka Fukami, Kaito Kawabata, Akinori Kato (Dept. Adv. Biosci., Grad. Sch. Agr., Kindai Univ.)

DP1-08-10/P1-063
Phase variable regulation of surface structures by promoter inversions in *Bacteroides vulgatus*
○Emmanuel Munyeshyaka[1], Haruyuki Imaohji[1], Nafisa Tabassum[1], Ayano Tada[1], Hisashi Yamasaki[2], Tomomi Kuwahara[1] ([1]Dept. Microbiol., Sch. Med., Kagawa Univ., [2]Dept. Biology., Hyogo Med. Univ.)

DP1-08-11/P1-064
Cloning of *murE* of PG synthesis from lactic acid bacteria to *E. coli* and characters of transformants
○Sho Noguchi, Sakura Onoue, Kazuyoshi Kawahara (Dept. Biosci., Col. Sci. Eng., Kanto Gakuin Univ.)

DP1-08-12/P1-066
Enterobacterial common antigen flippase wzxE is required for E. coli survival in plant environment
○Saki Yamaguchi, Kazuya Ishikawa, Kazuyuki Furuta, Chikara Kaito (Lab. Mol. Biol., Fac. Pharm., Okayama Univ.)

DP1-08-13/P1-067
Characterization of novel actin-like protein Mad28 involved in magnetosome positioning
○Rino Shimoshige[1], Azuma Taoka[2,3] ([1]Grad. Sch., Nat. Sci. Tech., Kanazawa Univ., [2]Fac. Biol. Sci. Tech., Inst. Sci. Eng., Kanazawa Univ., [3]NanoLSI, Kanazawa Univ.)

DP1-08-14/P1-068
Analysis of subcellular localization of FtsZ in bacteria with the minimum genome
○Daiki Shimizu, Masafumi Hayashi, Daisuke Shiomi (Dept. Life Sci., Col. Sci., Rikkyo Univ.)

DP1-08-15/P2-062
MamJ regulates MamK polymerization to form a dynamic cytoskeleton for magnetosome positioning
○Yuanyuan Pan[1], Yoshihiro Okuda[2], Takumi Saito[1], Azuma Taoka[3,4] ([1]Grad. Sch., Nat. Sci. Tech., Kanazawa Univ., [2]Fac. Biol. Sci. Tech., Inst. Sci. Eng., Kanazawa Univ., [3]Bioinf. DDBJ Ctr. Natl. Inst. Genet., [4]NanoLSI, Kanazawa Univ.)

DP1-08-16/P2-063
Biochemical Analysis of Cell Division Protein FtsZ of *Haloplasma contractile*
○Hirooki Fujita, Taishi Kasai, Daisuke Shiomi (Dept. Life Sci., Col. Sci., Rikkyo Univ.)

DP1-08-17/P2-064
Visualization of periodontopathic bacteria and the outer membrane vesicles by freeze fracture/SEM
○Aoi Takahashi[1,2], Hirotaka Kobayashi[3], Katsutoshi Osada[1,4], Kimihiro Abe[1], Takehiro Yamaguchi[1], Yukihiro Akeda[1], Tomoyo Nakamura[1,2,4], Tomohiko Nishino[2,4], Ryoma Nakao[1] ([1]Dept. Bacteriol. I, Natl. Inst. Infect. Dis., [2]Grad. Sch. Bionics, Tokyo Univ. Technol., [3]Dept. Pathology. I, Natl. Inst. Infect. Dis., [4]Sch. Biosci. Biotechnol, Tokyo Univ. Technol.)

DP1-08-18/P1-070
The route of intrabacterial nanotransportation system for VacA in *Helicobacter pylori*
○Hong Wu[1], Yoshihiko Fujioka[1], Noritaka Iwai[2], Shoichi Sakaguchi[1], Youichi Suzuki[1], Takashi Nakano[1] ([1]Dept. Microbiol. & Infect. Cont., Fac. Med., Osaka Med. & Pharm. Univ., [2]Grad. Sch. Biosci. & Biotechnol, Tokyo Inst. of Tech.)

DP1-09　Ecology 02

Wednesday, August 7　13:00–14:00
Digital Poster Group 3 (Main Hall)

Chair: Masaru Usui (Rakuno Gakuen University)

DP1-09-01/P1-043
Characterization of the sensitive skin microbiome of Japanese women
○Nakako Shibagaki[1], Mako Yamamoto[2], Kosuke Fujimoto[3,4], Seiya Imoto[2], Satoshi Uematsu[3,4] ([1]Mirai Inst., Shiseido Co., Ltd., [2]Div. Health Medical Intelligence, The Inst. Medical Science, The Univ. of Tokyo, [3]Div. Metagenome Medicine, Human Genome Center, The Inst. Medical Science, The Univ. of Tokyo, [4]Dept. Immunology and Genomics, Grad. Sch. Medicine, Osaka Met. Univ.)

DP1-09-02/P2-037
Lactobacillus play an important role in maintaining a healthy vaginal environment
○Shihoko Aizawa[1], Kazuhide Takada[1], Shingo Hayashida[2], Satoshi Hayakawa[1] ([1]Div. Microbiol., Dept. Pathol. and Midrobiol., Nihon Univ. Sch. Med., [2]Div. Pediatrics, Nihon Univ. Sch. Med.)

DP1-09-03/P2-038

Identification of symbiote candidates for Ileoanal pouch in ulcerative colitis in Japan

○Aoi Son[1], Tamotsu Kato[2], Yoshiyuki Matsuo[3], Soutaro Hanawa[4], Yumiko Nakanishi[2], Hiroshi Ohno[2], Hideki Ogura[1], Satoshi Ishido[1], Hiroki Ikeuchi[5], Motoi Uchino[5] ([1]Dept. Microbiol., Sch. Med., Hyogo Med. Univ., [2]IMS, Riken, [3]Dept. Human Stress Response Science, Inst. Bionedical Science, Kansai Med. Univ., [4]Dept. Oral and Maxillofacial Surgery, Hyogo Med. Univ., [5]Dept. IBD Surgery, Hyogo Med. Univ.)

DP1-09-04/P2-039

Biofilm formation by membrane vesicles released from Streptococcus sobrinus

○Hiroko Yoshida[1], Morito Hakamada[2], Shinichi Negishi[1], Hidenobu Senpuku[2] ([1]Dept. Orthodontics., Sch. Dent., Nihon Univ., [2]Dept. Microbiol. Immunol., Sch. Dent., Nihon Univ.)

DP1-09-05/P2-040

Isolation of colitis-suppressing bacteria from gut microbiota of rice bran-fed mice

○Risako Oki[1], Kazuki Tanaka[2], Nobuhiko Nomura[3], Nozomu Obana[4], Shinji Fukuda[2,4,5] ([1]Biol. Resource Sci., Univ. Tsukuba, [2]Inst. Adv. Biosci., Keio Univ., [3]Fac. Life Environ. Sci., Univ. Tsukuba, [4]TMRC, Fac. Medicine, Univ. Tsukuba, [5]Metabologenomics, Inc.)

DP1-09-06/P2-041

Gene expression of gut bacterial polyamine metabolism based on salt excretion and blood pressure

○Yasuo Ikagawa[1], Shigehiro Karashima[2], Ren Mizoguchi[3], Aoi Koshida[1], Hiromasa Tsujiguchi[4], Akinori Hara[4], Hiroyuki Nakamura[4], Shigefumi Okamoto[5] ([1]ILAS, Kanazawa Univ., [2]IFSI, Kanazawa Univ., [3]Dept. Health Prom. & Med. Fut., Kanazawa Univ., [4]Dept. Hygiene & Pub. Health, Grad. Sch. Adv. Prev. Med. Sci., Kanazawa Univ., [5]Div. Health Sci., Sch. Med., Osaka Univ.)

DP1-09-07/P2-042

Effect of ampicillin exposure in weaning period in diet-induced NASH model mice

Ryuji Ishikawa[1], Hikari Ohnishi[1], Mayuko Shimizu[2], Akiko Sakurai[1], ○Keiko Kataoka[1] ([1]Dept. Microbiol. Gen. Anal., Sch. Med., Tokushima Univ., [2]Dept. Pathol. Lab. Med., Sch. Med., Tokushima Univ.)

DP1-09-08/P2-043

Identification of membrane vesicle-producing gut bacteria correlated with host aging

○Miku Matsushita[1], Kaoru Kikuchi[1], Masakatsu Nohara[2], Nozomu Obana[3,4], Nobuhiko Nomura[4,5] ([1]Sch. Sci. Tech., Life Ear. Sci, Univ. Tsukuba, [2]Fac. Vet., Okayama Univ. Science, [3]TMRC, Inst. Med., Univ. Tsukuba, [4]MiCS, Univ. Tsukuba, [5]Inst. Life Environ., Sci. Univ. Tsukuba)

DP1-09-09/P1-045

Effect of long-term passage on the biofilm formation of *Fusobacterium nucleatum*

○Ayano Tada, Haruyuki Imaohji, Emmanuel Munyeshyaka, Nafisa Tabassum, Tomomi Kuwahara (Dept. Microbiol., Med., Kagawa Univ.)

DP1-09-10/P1-046

Investigation of methods for inducing germination of spore-forming bacteria

○Atsushi Hisatomi, Moriya Ohkuma, Mitsuo Sakamoto (RIKEN BRC-JCM)

DP1-09-11/P2-044

Adaptive Laboratory Evolution of Minimal Genome Bacterium to Low Temperature

○Masaki Mizutani[1], Minoru Moriyama[1], Ryuichi Koga[1], Takema Fukatsu[1,2,3], Shigeyuki Kakizawa[1] ([1]Bioproduct. Res. Inst., AIST., [2]Dept. Bio. Sci., Univ. Tokyo, [3]Grad. Sch. Life. Environ. Sci., Univ. Tsukuba)

DP1-09-12/P2-045

Controlling the viability of bacteria on dry surfaces: the effectiveness of warmed toilet seats

○Kotoka Kuriki[1,2], Torahiko Okubo[1], Hiroyuki Yamaguchi[1] ([1]Fac. Health. Sci., Hokkaido Univ., [2]Fac. Med., Hokkaido Univ.)

DP1-09-13/P2-046

Changes of Sensitivity to antibiotics against Streptococcus mutans under simulated microgravity

○Chika Tokairin, Michiyo Honda (Dept. Appl. Chem., Grad. Sch. Sci. Tech., Meiji Univ.)

DP1-09-14/P2-047

Effects of *Campylobacter jejuni* infection in the VBNC state on the mouse intestinal tract

Mizuki Tsuchida[1], Akihiro Hirata[1], Yasuo Inoshima[1,2], ○Ayaka Okada[1,2] ([1]Dept. Vet. Med., Gifu Univ., [2]GeFAH., Gifu Univ.)

DP1-10 Pathogenicity 02

Wednesday, August 7 14:10–15:10
Digital Poster Group 1 (Main Hall)

Chair: Keitaro Yoshida (Sapporo Medical University)

DP1-10-01/P1-108

The analysis of N-terminal side domain of MARTX toxin produced by *Vibrio vulnificus*

○Mai Sasaki[1], Shoko Takeuchi[1], Takahiro Tsuchiya[1,2], Katsushiro Miyamoto[1], Jun Komano[1], Hiroshi Tsujibo[1] ([1]Dept. Microbiol. Infect. Cont., Osaka Med. Pharm. Univ., [2]Ctr. Advance. Pharm. Educ., Osaka Med. Pharm. Univ.)

DP1-10-02/P1-109

The analysis of functional domain of MARTX toxin produced by *Vibrio vulnificus*

○Yurina Noso[1], Hina Sugimura[1], Takahiro Tsuchiya[1,2], Katsushiro Miyamoto[1], Jun Komano[1], Hiroshi Tsujibo[1] ([1]Dept. Microbiol. Infect. Cont., Osaka Med. Pharm. Univ., [2]Ctr. Advance. Pharm. Educ., Osaka Med. Pharm. Univ.)

DP1-10-03/P1-110

Negative transcriptional regulator of *V. parahaemolyticus* type III secretion system 2

○Sarunporn Tandhavanant[1,2], Hiroyuki Terashima[1], Dhira Saraswati Anggramukti[3], Hirotaka Hiyoshi[1], Narisara Chantratita[2], Tetsuya Iida[3], Shigeaki Matsuda[3], Toshio Kodama[1] ([1]Dept. Bacteriology, Inst. Tropical Medicine, Nagasaki Univ., [2]Dept. Microbiology and Immunology, Fac. Tropical Medicine, Mahidol Univ., [3]Dept. Bacterial Infections, Research Inst. Microbial Diseases, Osaka Univ.)

DP1-10-04/P1-111

The influence of PLC-mediated intracellular calcium influx in periodontitis during *Pg* infection

○Masaaki Nakayama[1,2], Mariko Naito[3], Koji Nakayama[3], Naoya Ohara[1,2] ([1]Dept. Oral Microbiol., Okayama Univ. Fac. Med. Dent. Pharm. Sci., [2]ARCOCS, Okayama Univ. Dent. Sch., [3]Dept. Microbiol. Oral Infect., Nagasaki Univ. Grad. Sch. Biomed. Sci.)

DP1-10-05/P1-112

Gingipain from Porphyromonas gingivalis promotes inflammation in hunan microglia cells

○Mika Fujii[1], Yutaka Yamazaki[1], Akira Hasebe[2], Ji-Won Lee[2] ([1]Gerodontology, Dept. Oral Health Science, Fac. Dental Medicine, Hokkaido Univ., [2]Microbiology, Dept. Oral Pathobiological Science, Grad. Sch. Dental Medicine, Hokkaido Univ.)

DP1-10-06

【Withdrawn】

DP1-10-07/P1-114

Mechanism of host-cellular response to streptolysin S produced by *Streptococcus anginosus*

○Yugo Yamamori[1], Hideaki Nagamune[1,2], Toshifumi Tomoyasu[1,2], Atsushi Tabata[1,2] ([1]Div. Bioresour. Sci., Grad. Sch. Sci. & Tech. for Innov., Tokushima Univ., [2]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ.)

DP1-10-08/P2-104

***Bordetella bronchiseptica* produces pertussis toxin**

○Shymaa Ali[1], Yukihiro Hiramatsu[1], Takashi Nishida[1], Dendi Krisna Nugraha[1], Yasuhiko Horiguchi[1,2] ([1]Dept. Mol. Bact., RIMD., Osaka Univ., [2]CiDER., Osaka Univ.)

DP1-10-09/P2-105

Analysis of the transcription of serine protease gene by *Aeromonas sobria*

○Eizo Takahashi[1], Sadayuki Ochi[1], Masaharu Tanaka[1], Toshiyuki Yui[1], Hidetomo Kobayashi[2], Soshi Seike[2], Hiroyasu Yamanaka[2], Keinosuke Okamoto[3] ([1]Fac. Pharm. Sci., Yokohama Univ. Pharm., [2]Fac. Pharm. Sci., Hiroshima Int. Univ., [3]Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ.)

DP1-10-10/P2-106

Structure and dynamics analysis of a clostridial collagenase

○Osamu Matsushita[1], Takehiko Mima[2], Adjoa Bonsu[3], Hiroya Oki[6], Ryo Masuda[7], Takaki Koide[8], Hayato Yamashita[4], Kazuki Kawahara[5], Joshua Sakon[3] ([1]Dept. Bacteriol., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., [2]Dept. Med. Tech., Fac. Health Sci., Ehime Pref. Univ. Health Sci., [3]Dept. Chem. Biochem., Univ. Arkansas, [4]Ctr. Sci. Tech. Extr. Cond, Grad. Sch. Eng. Sci., Osaka Univ., [5]Grad. Sch. Pharm. Sci., Osaka Univ., [6]Dept. Infect. Metagenomics., Res. Inst. Micro. Dis., Osaka Univ., [7]Waseda Res. Inst. Sci. Engineer., Waseda Univ., [8]Dept. Chem. Biochem., Sch. Adv. Sci Eng., Waseda Univ.)

DP1-10-11/P2-107

Investigation of the cytotoxic mechanism of Discoidinolysin produced by *S. mitis* strain Nm-76

○Sayaka Tsukasaki[1], Kazuto Ohkura[2], Toshifumi Tomoyasu[1,3], Hideaki Nagamune[3], Atsushi Tabata[1,3] ([1]Div. Bioresour. Sci., Grad. Sch. Sci. & Tech. Innov., Tokushima Univ., [2]Div. Pharm. Sci., Suzuka Univ. Med. Sci. Grad. Sch., [3]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ.)

DP1-10-12/P2-108

Elucidation of mechanism of vacuolation induced by Escherichia coli-derived Outer Membrane Vesicles

○Teresia Kimeu, Kazunori Murase, Atsuko Nozawa, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

DP1-10-13/P2-109

Interaction analysis between BteA and BopN produced by *Bordetella*

○Toshinobu Ogawa, Asaomi Kuwae, Akio Abe (Grad. Sch. Infect. Cont. Sci., Kitasato Univ.)

DP1-10-14/P2-110

Functional analysis of Bordetella BcrH2

○Maho Miyasugi, Akio Abe, Asaomi Kuwae (Grad. Sch. Infect. Contr. Sci., Kitasato Univ.)

DP1-10-15/P2-111

Functional analysis of the cell wall-anchored surface protein "Endo D" of *Streptococcus intermedius*

○Toshifumi Tomoyasu[1], Atsushi Tabata[1], Ayuko Takao[2], Hideaki Nagamune[1] ([1]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ., [2]Dept. Oral Bacteriol., Tsurumi Univ.)

DP1-10-16/P2-112

Investigation for growth and pathogenicity of *G. bergeri* isolate in the presence of serum components

◯Atsushi Tabata[1], Toshifumi Tomoyasu[1], Ken Kikuchi[2], Hideaki Nagamune[1] ([1]Div. Biosci. & Bioind., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ., [2]Dept. Infect. Dis., Tokyo Women's Med. Univ.)

DP1-11 Host defense 02

Wednesday, August 7 14:10–15:10
Digital Poster Group 2 (Main Hall)

Chair: Noriko Ogasawara (Sapporo Medical University)

DP1-11-01/P1-144

Fungal UV sensitivity is characteristically wavelength dependent due to melanin accumulation

◯Yushi Onoda[1,3], Kai Ishida[1], Miharu Nagahashi[1,2], Michiyo Yamashita[1,2], Toshihiko Aizawa[3], Shigeharu Yamauchi[3], Yasuo Fujikawa[3], Tomotake Tanaka[3], Kazuaki Mawatari[1,2], Akira Takahashi[1,2] ([1]Dept. Microbiol Cont., Inst. Biomed Sci., Tokushima Univ., [2]Dept. Prev Environ Nutr., Inst. Biomed Sci., Tokushima Univ., [3]Nichia Corp.)

DP1-11-02/P1-145

Host immunomodulation using membrane vesicles derived from Clostridioides difficile

◯Yotaro Isamu[1], Mayu Okuda[1], Nozomu Obana[2,4], Nobuhiko Nomura[3,4] ([1]Sch. Sci. Tech., Life Ear. Sci, Univ. Tsukuba, [2]TMRC, Fac. Med., Univ. Tsukuba, [3]Fac. Life Environ., Sci. Univ. Tsukuba, [4]MiCS, Univ. Tsukuba)

DP1-11-03/P1-146

Designing New-Age Peptide Vaccines Using Bacteriophages

◯Srivani Veeranarayanan, Takashi Sugano, Liu Yi, Myat Thu, Kanate Thitiananpakorn, Yoshifumi Aiba, XinEe Tan, Kazuhiko Miyanaga, Shinya Watanabe, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

DP1-11-04/P1-147

Phage Capsid Vaccines for *Mycobacterium tuberculosis* (*Mtb*): Purification & Concentration Strategies

◯Myat Thu, Srivani Veeranarayanan, Kanate Thitiananpakorn, Yoshifumi Aiba, XinEe Tan, Kazuhiko Miyanaga, Shinya Watanabe, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

DP1-11-05/P1-148

Nasal *Staphylococcus aureus* membrane vesicles induces mucosal IgA responses without adjuvant

◯Tomomi Hashizume-Takizawa, Masanori Saito, Noriko Shinozaki-Kuwahara, Ryoki Kobayashi, Hidenobu Senpuku (Dept. Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matsudo)

DP1-11-06/P2-139

Magnetic Nanoparticle Encapsulation of Membrane Vesicles to Enhance Cancer Therapy Effectiveness

◯Yushi Nagasaka[1], Chihiro Suzuki[2], Hiroyuki Futamata[1,3], Satoshi Ota[1], Yosuke Tashiro[1] ([1]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ., [2]Dept. Appl. Chem. Biochem. Eng. Shizuoka Univ., [3]Res. Inst. Green Sci. Tech. Shizuoka Univ.)

DP1-11-07/P2-140

Strategic Construction of DNA Vaccine Candidates with Bacteriophages for TB

◯Yi Liu, Srivani Veeranarayanan, Kanate Thitiananpakorn, Yoshifumi Aiba, XinEe Tan, Kazuhiko Miyanaga, Shinya Watanabe, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

DP1-11-08/P2-142

Molecular mechanism of the preventive effect of Ninjinyoeito on *Klebsiella pneumoniae* infection

◯Rika Tanaka[1], Shogo Tsubaki[2], Hitoshi Tsugawa[2] ([1]Dept. Immunology, Div. Infect. Host Def., Sch. Med., Tokai Univ., [2]Transkingdom Signaling Research Unit, Div. Infect. Host Def., Sch. Med., Tokai Univ.)

DP1-11-09/P2-143

Different prime-boost regimens via systemic or mucosal routes with a novel membrane vesicle vaccine

◯Hiroki Uchiyama[1,2], Takehiro Yamaguchi[1], Nozomu Obana[3], Kimihiro Abe[1], Masanori Toyofuku[4], Nobuhiko Nomura[4], Yukihiro Akeda[1], Ryoma Nakao[1] ([1]Dept. Bacteriol. I, Natl. Inst. Infect. Dis., [2]Dept. Surg., Tokyo Med. Dent. Univ. Grad Sch. Med., [3]Tsukuba Transborder Medical Research Center, Fac. Medicine, Univ. of Tsukuba, [4]Microbiology Research Center for Sustainability (MiCS), Univ. Tsukuba)

DP1-11-10/P2-144

Exploration of RNA signatures reflecting mycobacterial load in the lungs using active TB mouse model

◯Hajime Nakamura, Shintaro Seto, Minako Hijikata, Naoto Keicho (Dept. Pathophysiol. Host Defense, Research Inst. Tuberculosis)

DP1-11-11/P2-145

Evaluation of protective effect induced by intranasal vaccination of Bordetella Pertussis

◯Sora Ishikawa[1,3], Akira Ainai[1], Rena Sakamoto[1], Ryoma Nakao[2], Tadaki Suzuki[1], Koji Tamura[3] ([1]Dept. Pathology, NIID, [2]Dept. Bacteria 1, NIID, [3]Dept. Bio Sci. and Tech., Grad. Sch. Indu. Sci. and Tech., Tokyo Univ. of Sci.)

DP1-11-12/P2-147

Enhanced immunity to pulmonary tuberculosis by vaccination with Zinc metalloprotease 1-deficient BCG

◯Masayuki Umemura[1,2,3], Giichi Takaesu[1,2,3], Goro Matsuzaki[1,2,3] ([1]Trop. Biosphere Res. Cent., Univ. Ryukyus, [2]Drpt. Host Defense, Grad. Sch. Med., Univ. Ryukyus, [3]Adv. Med. Res. Cent., Fac. Med., Univ. Ryukyus)

DP1-11-13/P2-148
Genetic engineering employing MPB70 enables efficient expression of foreign antigen in BCG Tokyo
◯Atsuki Takeishi, Amina Kaboso Shaban, Yuriko Ozeki, Yutaka Yoshida, Akihito Nishiyama, Yoshitaka Tateishi, Sohkichi Matsumoto (Dept. Bacteriol., Sch. Med, Niigata Univ.)

DP1-11-14/P1-149
Identification of the intestinal bacteria that protect against Clostridium botulinum infection
◯Nobuhide Kobayashi[1], Hiroki Toriumi[2], Seiga Komiyama[2], Koji Hase[2], Yukako Fujinaga[1] ([1]Dept. Bacteriol., Grad. Sch. Med., Kanazawa Univ., [2]Divi. Biochem., Fac. Pharm., Keio Univ.)

DP1-11-15/P1-150
Neutralization mechanism of human monoclonal antibodies against type B botulinum neurotoxin
◯Takuhiro Matsumura, Mayu Kitamura, Sho Amatsu, Aki Yamaguchi, Nobuhide Kobayashi, Yukako Fujinaga (Dept. Bacteriol., Sch. Med. Sci., Kanazawa Univ.)

DP1-11-16/P1-151
RabGAP1L regulates exocytic and endocytic trafficking of the invading Group A Streptococcus
◯Atsuko Nozawa, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

DP1-11-17/P1-152
Analysis of OPN fragments reflecting the pathology in microbiological infection
◯Takashi Matsuba[1], Yui Uehara[1], Kana Sukizaki[1], Toshio Hattori[2] ([1]Animal Pharm. Sc., Sch. Pharm., Univ. Kyushu Med. Sci., [2]Inst. Health Welf., Kibi Int. Univ)

DP1-12　Antimicrobial agents and resistance 02

Wednesday, August 7　14:10–15:10
Digital Poster Group 3 (Main Hall)

Chair: Hajime Yamauchi (Asahikawa Medical University)

DP1-12-01/P1-157
Dermatophyte Cyp51 isozyme selectivity of azole antifungal agents
◯Masaki Ishii[1], Tsuyoshi Yamada[2], Shinya Ohata[1] ([1]Research Inst. Pharmaceutical Sciences, Fac. Pharmacy, Musashino Univ., [2]Inst. Med. Mycol., Teikyo Univ.)

DP1-12-02/P1-158
Optimized synthesis of CRISPR-Cas13a antimicrobial capsid against MRSA
◯Yuzuki Shimamori[1], XinEe Tan[1], Feng-Yu Li[1], Yutaro Nishikawa[1,2], Batbold Anujin[1], Nayanjin Tergel[1], Kotaro Kiga[1,3], Shinya Watanabe[1], Takayuki Shimojyo[2], Longzhu Cui[1] ([1]Div. Bacteriology, Dept. Inf. & Imm., Sch. Med., JMU., [2]EIKEN CHEMICAL CO.,LTD., [3]RCDVD, NIID)

DP1-12-03/P1-159
Development of chelator based novel MBL inhibitors to combat carbapenem resistance bacteria
◯Touya Toyomoto, Tianli Zhang, Ayaka Uegama, Hiroyasu Tsutsuki, Tomohiro Sawa (Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ)

DP1-12-04/P1-160
Functional impact by linker region of a staphylococcal endolysin
Sosuke Munetomo[1], ◯Jumpei Uchiyama[2], Iyo Uchiyama[2], Wanganuttara Thamonwan[2], Toshihiro Tsukui[3], Hideharu Hagiya[4], Yumiko Yamamoto[2], Hideyuki Kanda[1], Osamu Matsushita[2] ([1]Dept. Pub. Heal., Grad. Sch. Med. Dent. Pharm., Okayama Univ., [2]Dept. Bacteriol., Grad. Sch. Med. Dent. Pharm., Okayama Univ., [3]Nippon Zenyaku Kogyo Co., Ltd., [4]Dept. Infect. Dis., Okayama Univ. Hosp.)

DP1-12-05/P1-161
Antibacterial activity screening of Thai medicinal plant extracts using resazurin microtiter assay
◯Nitchatorn Sungsirin[1,2], Tanit Boonsiri[2], Saengthip Ngoenprong[3], Faesah Ayohsae[3], Oraya Dokkham[3], Siriwan Sriuan[3], Busaba Matrakool[3], Tassanee Saovana[3], Sudaluck Thunyaharn[3] ([1]Dept. Microbiology, Fac. Medicine, Shimane Univ., [2]Dept. Microbiology, Phramongkutklao College of Medicine, [3]Fac. Allied Health Sciences, Nakhonratchasima College)

DP1-12-06/P1-162
Development of antimicrobial peptide foldamers as therapeutics for multi-drug resistant bacteria
◯Takashi Misawa[1], Takahito Ito[1,2], Megumi Kurashima[1], Seiji Yamasaki[3], Kunihiko Nishino[3], Yosuke Demizu[1,2] ([1]National Inst. Health Sciences, [2]Grad. Sch. Med. Life Sci., Yokohama City Univ., [3]SANKEN, Osaka Univ.)

DP1-12-07/P1-163
Approaches for S. mutans by co-treatment with antimicrobial peptides and antimicrobial agents
◯Ryosuke Nakamura, Michiyo Honda (Dept. Appl. Chem., Grad. Sch. Sci. Tech., Meiji Univ.)

DP1-12-08/P1-164
Establishing phagemid packaging system to generate antimicrobials against MDR Staphylococcus aureus
Feng-Yu Li[1], ◯XinEe Tan[1], Yuzuki Shimamori[1], Kotaro Kiga[1,2], Shinya Watanabe[1], Yoshifumi Aiba[1], Kazuhiko Miyanaga[1], Kanate Thitiananpakorn[1], Yutaro Nishikawa[1,3], Longzhu Cui[1] ([1]Dept. Infect. Immun., Sch. Med., Jichi Med. Univ., [2]Research Center for Drug and Vaccine Development, National Inst. Infectious Diseases, [3]EIKEN CHEMICAL CO.,LTD.)

DP1-12-09/P1-165

Antifungal activity of bacteria isolated using a novel medium containing plant-derived components

◯Fumiaki Tabuchi[1], Kazuhiro Mikami[2], Masaki Ishii[3], Atsushi Miyashita[1] ([1]Lab. Antifungal Immunobiol., Inst. Med. Mycol., Teikyo Univ., [2]Dept. Med. Tech., Grad. Sch. Clinical Lab. Sci., Teikyo Univ., [3]Lab. Mol. Cell Biol., Sch. Pharm., Musashino Univ.)

DP1-12-10/P2-166

Mobile linezolid resistance genes in enterococci derived from livestock compost at Japanese farms

◯Akira Fukuda[1], Chie Nakajima[2], Yasuhiko Suzuki[2], Masaru Usui[1,2] ([1]Dept. Food Microbiol. and Food Safe., Sch. Vet. Med., Rakuno Gakuen Univ., [2]Div. Bioresources, Inter. Inst. Zoonosis Contr., Hokkaido Univ.)

DP1-12-11/P2-168

Genetic and phenotypic analyses of *mcr*-harboring ESBL-producing *E. coli* from dogs and cats in Japan

◯Mayo Yasugi[1], Shingo Hatoya[1], Daisuke Motooka[2], Daisuke Kondo[1], Hideo Akiyoshi[1], Masayuki Horie[1], Shota Nakamura[2], Terumasa Shimada[1] ([1]Grad. Sch. Vet. Sci., Osaka Metro. Univ., [2]RIMD, Osaka Univ.)

DP1-12-12/P2-169

Resistance to Sulfamethoxazole-Trimethoprim and Its Horizontal Transfer in *Haemophilus influenzae*

◯Tomokazu Ando, Takeaki Wajima, Emi Tanaka, Kei-ichi Uchiya (Dept. Microbiol., Fac. Pharm., Meijo Univ.)

DP1-12-13/P2-170

Mechanism of high-level quinolone resistance in *H. haemolyticus* revealed by gene transfer assay

◯Takeaki Wajima, Emi Tanaka, Kei-ichi Uchiya (Dept. Microbiol., Fac. Pharm., Meijo Univ.)

DP1-12-14/P2-172

Long-term cultivation triggers non-canonical susceptibilization of biofilm cells to antibiotics

◯Keiichiro Hara[1,2], Shinya Sugimoto[1,2,3], Yuki Kinjo[1,2] ([1]Dept. Bacteriol., Jikei Univ. Sch. Med., [2]Jikei Center for Biofilm Sci. Technol., Jikei Univ. Sch. Med., [3]Lab. Amyloid Reg., Jikei Univ. Sch. Med.)

DP1-12-15/P2-173

Alanine-transporter CycA supports cationic antimicrobial resistance in Staphylococcus aureus

◯Yujin Suzuki[1], Miki Matsuo[1,2], Nguyen Tra Mi Le[1,2], That Thuan Vy Ton[1], Hitoshi Komatsuzawa[1,2] ([1]Dept. Bacteriol., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., [2]Proj. Res. Ctr. for Nosocominal Infectious Diseases, Hiroshima Univ.)

DP1-12-16/P2-174

Increased prevalence of Kanamycin-resistant Salmonella Schwarzengrund from broilers in Kagoshima

◯George Sanga, Rika Miyajima, Vu Minh Duc, Takehisa Chuma (Joint Fac. Vet. Med. Kagoshima Univ.)

DP1-12-17/P2-178

Metabolic Remodeling by *rpoBC* Mutations is Associated with β-Lactam Resistance in OS-MRSA

◯Shinya Watanabe, Chijioke A Nsofor, Kanate Thitiananpakorn, XinEe Tan, Yoshifumi Aiba, Kazuhiko Miyanaga, Srivani Veeranarayanan, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

DP2-13 Taxonomy / Epidemiology / Infectious diseases 03

Thursday, August 8 9:00–10:00
Digital Poster Group 1 (Main Hall)

Chair: Soh Yamamoto (Sapporo Medical University)

DP2-13-01/P1-021

Development of real-time PCR assay specific for *astA* of *Escherichia coli*

◯Sakura Arai[1], Tadasuke Ooka[2], Nobuyo Ikeda[3], Kaori Shimmen[4], Koji Yokoyama[5], Emi Arikawa[6], Mayumi Kadoguchi[7], Akito Mizokoshi[8], Takayuki Konno[9], Yuka Kojima[10], Satomi Kando[11], Noriko Konishi[12], Shouhei Hirose[1], Yukiko Kudo[1] ([1]Div. Microbiol., Natl. Inst. Health Sci., [2]Dept. Microbiol., Grad. Sch. Med. Dent. Sci., Kagoshima Univ., [3]Hiroshima City Inst. Public Health, [4]Himeji Inst. Env. Health, [5]Fukui Inst. Health and Env. Sci., [6]Kitakyushu Inst. Health and Environ. Sci., [7]Kumamoto City Env. Res. Ctr., [8]Oita Pref. Inst. Health. Environ., [9]Akita Pref. Res. Ctr. Public Health and Env., [10]Kawasaki City Inst. for Public Health, [11]Saitama Inst. Public Health, [12]Tokyo Metropol. Inst. Public Health)

DP2-13-02/P1-022

Diagnosis of *Helicobacter suis* infection as a potential contributor to gastric malignancies

◯Hidenori Matsui[1,2], Emiko Rimbara[1], Sae Aoki[1], Keigo Shibayama[2], Masato Suzuki[3] ([1]Dept. Bacteriol. II, NIID, [2]Dept. Bacteriol., Sch. Med., Nagoya Univ., [3]AMR Res. Cent., NIID)

DP2-13-03/P1-023

Evaluation of MALDI Biotyper system in rapid identification of *Bacillus anthracis* spores

◯Yoshihito Fujinami, Hiroaki Nakahara, Junji Hosokawa-Muto, Akira Imamura (National Research Inst. Police Science)

DP2-13-04/P1-024

Optimization of tuberculosis diagnostics by detection of Ag85B antibody titer

◯Tomoya Yamazaki[1], Desak Nyoman Surya Suameitria Dewi[2], Satoshi Ishikawa[1,3], Yutaka Yoshida[1], Yuriko Ozeki[1], Akihito Nishiyama[1], Yoshitaka Tateishi[1], Sohkichi Matsumoto[1] ([1]Dept. Bacteriol., Sch. Med., Niigata Univ., [2]Dept. Microbiol., Sch. Med., Ciputra Univ., [3]Fukuyama Zoo)

DP2-13-05/P1-025

Improved Accurate Quantitative Analysis of Microbiome Using DNA Standard for 16S rRNA NGS analysis

◯Honami Miyakura, Yoshitaka Kimura (TAKARA BIO INC.)

DP2-13-06/P1-026

Detection of MVOCs from Keratinase Mutant Strain of *Trichophyton benhamiae*

◯Toha Mizutani[1], Tsuyoshi Yamada[2,3], Koichi Makimura[2], Shinichi Iwaguchi[1] ([1]Dept. Biol. Sci., Fac. Sci., Nara Women's Univ., [2]Inst. Med Mycol., Teikyo Univ., [3]Asia Intl. Inst. Infect. Dis. Ctrl., Teikyo Univ.)

DP2-13-07/P2-021

Analysis of the foodborne outbreak of Clostridium perfringens in Toyama prefecture, 2023

◯Kazuki Saito[1], Keiko Kimata[1], Junko Isobe[1], Jun-ichi Kanatani[1], Kaho Ikeda[1], Emi Maenishi[1], Takashi Takeuchi[2], Chiharu Matsuzaki[3], Kazunori Oishi[1] ([1]Dept. Bacteriol., Toyama Inst. Health, [2]Environmental Health Division in Toyama Prefecture, [3]Public Health Center of Imizu, Toyama Prefecture)

DP2-13-08/P2-022

Breath omics analysis for infectious diseases

◯Seiryo Ogata[1], Tetsuro Matsunaga[1], Minkyung Jung[1], Masanobu Morita[1], Fan-Yan Wei[2], Hozumi Motohashi[3], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., [2]Dept. Modomics Biol. Med., IDAC, Tohoku Univ., [3]Dept. Gene Exp. Regul., IDAC, Tohoku Univ.)

DP2-13-09/P2-023

Mechanisms of excretion of bacterial-specific modified nucleosides in urine

◯Ryosuke Yamamura[1], Yu Nagayoshi[1,2], Kayo Nishiguchi[1,2], Kazuhito Tomizawa[1] ([1]Dept. Mol. Physiol., Fac. Lif. Sci., Kumamoto Univ., [2]Dept. Nephrol., Fac. Lif. Sci., Kumamoto Univ.)

DP2-13-10/P2-024

Improvement of culture method for *Clostridioides difficile*

◯Mitsutoshi Senoh, Tsuyoshi Kenri (Dept. Bacteriol. II, Natl. Inst. Infect. Dis.)

DP2-13-11/P2-025

Development of a novel *in vitro* detection method for botulinum neurotoxin

◯Masahiro Yutani, Tsuyoshi Kenri, Mitsutoshi Senoh (Dept. Bacteriol. II, Natl. Inst. Infect. Dis.)

DP2-13-12/P2-026

Evaluation of VBNC-Helicobacter pylori by PMA-PCR

◯Fuhito Hojo[1], Jiro Mitobe[2], Shigeru Kamiya[3], Takako Osaki[2] ([1]Inst. Lab. Animals, Grad. Sch. Med, Kyorin Univ., [2]Dept. Infect. Dis., Kyorin Univ. Sch. Med., [3]Miyarisan Pharmaceutical Co., Ltd.)

DP2-13-13/P1-027

***Anaplasma* spp. in Yaku-deer of Yaku-shima Island, Kagoshima prefecture**

◯Masako Andoh[1,2], Mayu Goto[1], Takaki Nakamura[1] ([1]Vet. Med., Kagoshima Univ., [2]Int. Ctr. Is. Stud., Kagoshima Univ.)

DP2-13-14/P1-028

Effect of oral resident bacteria on risk of ocular infections when wearing orthokeratology lenses

◯Yuna Kimura, Ai Watanabe, Taizo Sumide (Menicon Co., Ltd.)

DP2-13-15/P1-030

Prevalence of *Corynebacterium ulcerans* in cynomolgus monkeys in Japan: retrospective analysis

◯Miyuki Kimura[1], Kenzo Yonemitsu[2], Yasushi Ami[2], Asuka Hirai-Yuki[2], Mitsutoshi Senoh[1], Tsuyoshi Kenri[1], Ken-Ichi Hanaki[2], Masaaki Iwaki[2] ([1]Dept. Bacteriology II, NIID, [2]Management Dept. Biosafety, Lab. Animal, and Pathogen Bank, NIID)

DP2-13-16/P2-027

Comparative analysis of *Leptotrichia* sp. isolated from human oral cavity

◯Noriko Shinozaki-Kuwahara[1], Masanori Saito[2], Tomomi Hashizume-Takizawa[2], Hidenobu Senpuku[2], Koichi Hiratsuka[1] ([1]Dept. Biochem. Mol. Biol., Nihon Univ. Sch. Dent. at Matsudo., [2]Dept. Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matsudo)

DP2-13-17/P2-028

Inhibition effect of oral moisturizing gel ingredients on the biofilm formation

◯Setsuhi Sei[1], Takafumi Miyazaki[2], Yoshiaki Kamikawa[3], Hidenobu Senpuku[1] ([1]Dept. Microbiol. Immunol., Dent., Sch. at Matsudo, Nihon Univ., [2]Pikasshu, [3]Sch. Dent., Kagoshima Univ.)

DP2-13-18/P2-029

Prevalence of intestinal carriage of hemolytic streptococci in the nursing home residents

◯Kaho Ikeda[1], Junko Isobe[1], Emi Maenishi[1], Keiko Kimata[1], Jun-ichi Kanatani[1], Kazuki Saito[1], Tadayoshi Ikebe[2], Yukihiro Akeda[2], Kazunori Oishi[1] ([1]Dept. Bacteriol., Toyama Inst. Health, [2]Dept. Bacteriol. 1, Natl. Inst. Infect. Dis.)

DP2-13-19/P2-030

***Bacillus cereus* foodborne outbreaks in Tokyo, 1977-2023**

◯Chie Monma, Wakaba Okada, Natsumi Furuta, Chikako Asayama, Satomi Uehara, Hiroshi Koike, Maki Kanda, Hiromi Obata, Keiko Yokoyama, Kenji Sadamasu (Dept. Microbial., Tokyo Metropolitan Inst.)

DP2-14 Genetics / Genomics / Biotechnology 01

Thursday, August 8 9:00–10:00
Digital Poster Group 2 (Main Hall)

Chair: Akira Hasebe (Hokkaido University)

DP2-14-01/P2-078

Diversity of the Japanese Gut Microbiome Analysis: Relative Approach Using Compositional Analysis

◯Tatsuki Itagaki, Keisuke Nakamura, Shintaro Nakano, Machiko Kasai, Ji-Won Lee, Akira Hasebe (Oral Molecular Microbiology, Fac. Dental Medicine, Grad. Sch. Dental Medicine, Hokkaido Univ.)

DP2-14-02/P2-079

Genomic Analysis of *Salmonella* Isolated from Canal Water in Bangkok, Thailand

◯Jirachaya Toyting[1], Narong Nuanmuang[2], Fuangfa Utrarachkij[3], Pimlapas Leekitcharoenphon[2], Frank Aarestrup[2], Toyotaka Sato[4], Jeewan Thapa[1], Chie Nakajima[1], Yasuhiko Suzuki[1] ([1]Div. Biores., Hokkaido Univ. Int. Inst. Zoonosi. Contr., [2]Res. Gr. for Genom. Epi., Nat. Food Int., Tech. Univ. of Denmark, [3]Dept. Microbiol., Fac. Publ. Healt. Mahidol Univ., [4]Lab. Vet. Hyg., Fac. Vet. Med., Hokkaido Univ.)

DP2-14-03/P2-080

Quantification and visualization of the *Escherichia coli* genome based on phylogenetic trees

◯Masahiro Suzuki (Dept. Microbiology, Sch. Med., Fujita Health Univ.)

DP2-14-04/P2-081

Statistical-genetic investigation of the pathogenic factors in invasive pneumococcal diseases

◯Masayuki Ono[1,2], Masaya Yamaguchi[1,2,3,4], Shigetada Kawabata[1,4] ([1]Dept. Microbiol., Osaka Univ. Grad. Sch. Dent., [2]Bioinfor. Res. Unit, Osaka Univ. Grad. Sch. Dent., [3]Bioinfor. Center, Res. Inst. Microbial Dis., Osaka Univ., [4]CiDER, Osaka Univ.)

DP2-14-05/P2-082

Phylogenetic analysis and cell adhesion of *astA*-positive *Escherichia coli* O166:H15

Akiko Kubomura[1], Ken-ichi Lee[1], Kaori Shimmen[2], Kaori Kashima[3], Nozomi Sakakida[3], Mayumi Kadoguchi[4], Yukiko Kudo[5], Yukihiro Akeda[1], ◯Sunao Iyoda[1] ([1]National Inst. Infectious Diseases, [2]Himeji Inst. Env. Health, [3]Saitama Pref., [4]Kumamoto City, [5]National Inst. Health Sciences)

DP2-14-06/P2-083

Genomic characterization of STEC strains isolated from asymptomatic carriers

◯Yumi Imai[1], Hiroshi Kaneko[2], Miki Okuno[1], Yuki Hoshiko[1], Takeshi Yamamoto[1], Ken-ichi Lee[3], Akio Noguchi[2], Sunao Iyoda[3], Toshio Sato[2], Yoshitoshi Ogura[1] ([1]Div. Microbiol. Dept. Infect. Med. Kurume Univ. Sch. Med., [2]Japan Microbiological Laboratory Co., Ltd., [3]Dept. Bacteriology I, National Inst. Infectious Diseases)

DP2-14-07/P2-084

Functional Genomic Characterization of Nontuberculous Mycobacteria from Bathroom Environments

◯Marie Ikai[1], Yukiko Nishiuchi[2], So Fujiyoshi[2], Fumito Maruyama[2], Yusuke Minato[1] ([1]Dept. Microbiol., Sch. Med., Fujita Health Univ., [2]Dept. Microbial Genomics and Ecology, Hiroshima Univ.)

DP2-14-08/P2-085

Genome analysis reveals mechanisms of resistance gene transfer in ESBL-producing *Aeromonas*

◯Miki Okuno[1], Michiyo Sugiyama[2], Yuki Hoshiko[1], Takeshi Yamamoto[1], Tetsuo Asai[2], Yoshitoshi Ogura[1] ([1]Dept. Infectious Med., Kurume Univ. Sch. Med., [2]United Grad. Sch. Vet. Sci., Gifu Univ.)

DP2-14-09/P1-078

Acceptability of *Escherichia coli* for IncF plasmids encoding antimicrobial-resistance genes

◯Kengo Hayashi[1], Masahiro Suzuki[1], Yohei Doi[1,2,3] ([1]Dept. Microbiol., Sch. Med., Fujita Health Univ., [2]Dept. Infect. Dis., Sch. Med., Fujita Health Univ., [3]Div. Infect. Dis., Sch. Med., Pittsburgh Univ.)

DP2-14-10/P1-079

DNA transfer by Pseudomonas aeruginosa using membrane vesicles of Pf4 prophage

◯Haruki Okumura[1], Satoshi Takenawa[2], Soutaro Takano[2], Mizuki Kanno[3], Hiroyuki Futamata[1,3,4], Akihiro Okamoto[2], Yosuke Tashiro[1,3] ([1]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ, [2]NIMS. MANA., [3]Grad. Sch. Sci. Tech. Shizuoka Univ., [4]Res. Inst. Green Sci. Tech. Shizuoka Univ.)

DP2-14-11/P1-080

Horizontal gene transfer through membrane vesicles facilitated by changes in cellular membrane state

◯Soichiro Eri[1], Mizuki Kanno[2], Hiroyuki Futamata[1,2,3], Yosuke Tashiro[1,2] ([1]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ., [2]Grad. Sch. Sci. Tech. Shizuoka Univ., [3]Res. Inst. Green. Sci. Tech. Shizuoka Univ.)

DP2-14-12/P1-081

Evolutionary process of Streptococcus dysgalactiae genome, with host switching

◯Kazunori Murase, Ryosuke Tsuge, Atsuko Minowa-Nozawa, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sc. Med., Kyoto Univ)

DP2-14-13/P1-082
Predicting the bacteria acquired the plasmid by conjugative transfer based on nucleotide sequences
○Maho Tokuda[1], Shunta Tsuruga[2], So Maeda[3], Rin Yamazaki[3], Chiho Minakuchi[4], Hideaki Nojiri[4], Kazuhide Kimbara[1,2,3], Masaki Shintani[1,2,3,5] ([1]Grad. Sch. Shizuoka Univ., [2]Grad. Sch. Shizuoka Univ., [3]Fac. Eng. Shizuoka Univ., [4]Grad. Sch. Agric. Life Sci., UTokyo, [5]Shizuoka Univ. RIGST)

DP2-14-14/P1-083
Upstream genetic structures of AMR genes and its utilization for presuming AMR plasmids
○Itaru Hirai[1], Nobuyoshi Yagi[2] ([1]Lab. Microbiol., Sch. Health Sci., Fac. Med., Univ. of the Ryukyus, [2]Lab. Clin. Physiol., Sch. Health Sci., Fac. Med., Univ. of the Ryukyus)

DP2-14-15/P1-084
The Temporal Trends of Molecular Typing and Resistance Gene Dynamics in *Neisseria gonorrhoeae*
○Yuki Ohama[1], Ken Shimuta[1], Masatomo Morita[1], Ai Yoshida[1], Hideyuki Takahashi[1], Mitsuru Yasuda[2], Makoto Ohnishi[3], Yukihiro Akeda[1] ([1]Dept. Bact. 1., NIID, [2]SMU Med, Dept. Infection Control & Clinical Lab Med., [3]OPHE-IDRC)

DP2-14-16/P1-085
Comprehensive analysis of small RNAs that control the expression of the virulence regulator in EHEC
○Naoki Sudo[1], Nobuhiko Okada[2], Jiro Mitobe[1] ([1]Dept. Infect. Dis., Sch. Med., Kyorin Univ., [2]Dept. Microbiol., Sch. Pharm., Kitasato Univ.)

DP2-14-17/P1-086
Appropriate transcription of *SPS1* of *Candida albicans* are necessary to normal growth
○Miyabi Sugano, Shinichi Iwaguchi (Dept. Biol. Sci, Fac. Sci., Nara Women's Univ.)

DP2-14-18/P1-087
Virulence factors of hemolytic streptococci SDSE strains prevalent in Japan
○Kohei Ogura[1,2], Koji Kinoshima[3], Hitomi Kitamura[3], Shigefumi Okamoto[2,3], Toru Akiyama[4] ([1]Div. Food Sci. Biotech., Grad. Sch. Agr., Kyoto Univ., [2]Inst. Front. Sci. Init., Kanazawa Univ., [3]Fac. Health Sci., Inst. Med. Pham. Health Sci., Kanazawa Univ., [4]Res. Insit., NCGM)

DP2-14-19/P1-088
New regulatory network via ArcAB and quorum sensing system of *Vibrio cholerae* biofilm formation
○JantCres Caigoy[1], Hirofumi Nariya[2], Toshi Shimamoto[1], Zhiqun Yan[3,4], Tadashi Shimamoto[1] ([1]Grad. Sch. Int. Sci. Life, Hiroshima Univ., [2]Grad. Sch. Human Life Sci. Jumonji Univ., [3]Grad. Sch. Biosph. Sci. Hiroshima Univ., [4]Res. Cent. Maruzen Pharm. Co. Ltd)

DP2-15 Antimicrobial agents and resistance 03

Thursday, August 8 9:00–10:00
Digital Poster Group 3 (Main Hall)

Chair: Hideki Hara (Asahikawa Medical University)

DP2-15-01/P2-179
Analysis of antimicrobial-resistant bacteria and drug-resistance genes from domestic chicken meat
○Runa Nakashima[1], Reina Kuwano[1], Tomoka Matsuo[1], Momoka Kondo[1], Rei Wakimoto[2], Mitsuoki Kawano[1] ([1]Dept. Nutritional Sciences., Nakamura Gakuen Univ., [2]Div. Food and Nutrition., Nakamura Gakuen Univ. JC.)

DP2-15-02/P2-180
Identification of ESBL genes using intestinal mucus samples from intestinal disease patients
○Rei Wakimoto[1], Riho Kashige[2], Momoko Shimai[2], Kakeru Teshima[2], Akiko Shiotani[3], Tingting Gu[3], Runa Nakashima[2], Mitsuoki Kawano[2] ([1]Div. Food and Nutrition., Nakamura Gakuen Univ. Junior College, [2]Dept. Nutritional Sciences, Nakamura Gakuen Univ., [3]Dept. Gastroenterology and Hepatology, Sch. Med., Kawasaki Univ.)

DP2-15-03/P2-181
Analysis of the amikacin resistance factor of carbapenem-resistant Escherichia coli AUH-256
○Hinako Yokoyama[1], Azuki Morishita[1], Shoichi Sakaguchi[2], Takashi Nakano[2], Yuji Nakada[1] ([1]Fac. Healthcare Sci., Aino. Univ., [2]Dept. Microbiol. & Infect. Cont., Fac. Med., Osaka Med. & Pharm. Univ.)

DP2-15-04/P2-182
Antimicrobial resistance of *emm*89 *Streptococcus pyogenes* isolates from patients throughout Japan
○Weichen Gong[1], Masayuki Ono[1,2], Masaya Yamaguchi[1,2], Daisuke Motooka[3], Yujiro Hirose[1], Rumi Okuno[4], Tadayoshi Ikebe[5], Shigetada Kawabata[1] ([1]Dept. Microbiol. Sch. Dent., Osaka Univ., [2]Dept. Info., Sch. Dent., Osaka Univ., [3]NGS Core Facility, RIMD., Osaka Univ., [4]Dept. Microbiol., Tokyo Metropolitan Inst. of Public Health, [5]Dept. Bacteriol. I., NIID)

DP2-15-05/P2-183
Mg^{2+} requirement in VmeJK, an RND multidrug efflux pump, in *Vibrio parahaemolyticus*
○Rino Murakami[1], Ayami Kunimitsu[1], Daichi Morita[2], Takanori Kumagai[2], Teruo Kuroda[2] ([1]Sch. Pharm., Hiroshima Univ., [2]Dept. Microbiol. Med., Sch. Med. Sci., Hiroshima Univ.)

DP2-15-06/P2-184

Isolation and Characterization of Bacteriophages Infecting Drug-Resistant *Acinetobacter* Species

◯Azumi Tamura[1,2,3], Tomohiro Nakamura[1], Aa Haeruman Azam[1], Kotaro Chihara[1], Shinjiro Ojima[1], Longzhu Cui[4], Koichi Watashi[1], Yoshimasa Takahashi[1], Hiroshi Yotsuyanagi[2,3], Kotaro Kiga[1,4] ([1]Res. Cent. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [2]Dept. Comp. Biol. Med. Sci., Grad. Sch. Front. Sci., Univ. of Tokyo, [3]Div. Infect. Dis., Inst. Med. Sci., Univ. of Tokyo, [4]Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

DP2-15-07/P2-186

Evaluation of the bactericidal effect of bacteriophages on food products

◯Mitsuoki Kawano[1], Akiho Ichino[1], Eri Kawaji[1], Nanoha Yoshida[1], Runa Nakashima[1], Rei Wakimoto[2] ([1]Dept. Nutritional Sci., Nakamura Gakuen Univ., [2]Div. Food and Nutrition, Junior College, Nakamura Gakuen Univ.)

DP2-15-08/P2-187

Isolation and application of *Klebsiella pneumoniae* prophage with a broad host range

Junjie Li, ◯Kazuhiko Miyanaga, Kanate Thitiananpakorn, Minh Huong Nguyen, XinEe Tan, Srivani Veeranarayanan, Yoshifumi Aiba, Teppei Sasahara, Shinya Watanabe, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

DP2-15-09/P2-188

Tailoring induce conditions for CRISPR-Cas13a loaded AB-Capsid and targeted killing of *S. aureus*

◯Anujin Batbold, XinEe Tan, Tergel Nayanjin, Shinya Watanabe, Yoshifumi Aiba, Kazuhiko Miyanaga, Teppei Sasahara, Srivani Veeranarayanan, Kanate Thitiananpakorn, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

DP2-15-10/P1-166

Investigation of phage therapy against multidrug-resistant Escherichia coli

◯Mana Tohyama[1], Haruka Ohashi[1], Tomohiro Nakamura[1,2], Jumpei Fujiki[1], Hidetomo Iwano[1] ([1]Dept. Biochemistry, Sch. Veterinary, Rakuno Gakuen Univ., [2]Reserach Center for Drug and Vaccine Development, National Inst. Infectious Diseases)

DP2-15-11/P1-167

Isolation and characterization of broad host range bacteriophages infecting *Acinetobacter baumannii*

◯Maniruzzaman , Adeline Yeo SyinLian, Yoshifumi Aiba, Minh Huong Nguyen, Shinya Watanabe, Kazuhiko Miyanaga, XinEe Tan, Teppei Sasahara, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

DP2-15-12/P1-168

Prevalence of extended-spectrum beta-lactamase-producing *Escherichia coli* in the Ijira River

◯Tomoki Nakatsubo[1], Michiyo Sugiyama[2], Tetsuo Asai[1,2] ([1]Dept. Appl. Vet. Sci., Jnt. Grad. Sch. Vet. Sci., Gifu Univ., [2]Dept. Appl. Vet. Sci., Unit. Grad. Sch. Vet. Sci., Gifu Univ.)

DP2-15-13/P1-169

Roles of RND multidrug efflux pumps on drug resistance of Achromobacter xylosoxidans type strain

◯Mizuki Sugano, Emiko Mizusawa, Ayami Mezaki, Go Kamoshida, Yuji Morita (Dept. Infection Control Science., Sch. Pharm. Sci., Meiji Pharmaceutical Univ.)

DP2-15-14/P1-170

Emergence of ciprofloxacin and penicillin resistant meningococcal isolates in Japan

◯Hideyuki Takahashi[1], Masatomo Morita[1], Hajime Kamiya[2], Munehisa Fukusumi[3], Mitsuru Yasuda[4], Yuki Ohama[1], Ken Shimuta[1,2], Makoto Ohnishi[1], Ryoichi Saitoh[5], Yukihiro Akeda[1] ([1]Dept. Bacteriol 1, Nat. Inst. Infect. Dis., [2]Infect. Dis. Survei. Center, Nat. Inst. Infect. Dis., [3]Center Field Epi. Intel. Res. Pro. Develop., Nat. Inst. Infect. Dis., [4]Dept. Infect. Cont. Lob. Med., Sch. Med., Sapporo Univ., [5]Dept. Mol. Microbiol., Sch. Med. & Dent. Sci., Tokyo Med. & Dent. Univ.)

DP2-15-15/P1-171

Phenotypic and genetic characteristics of $bla_{\text{IMP-6}}$ harbouring Enterobacteriaceae

◯Koichi Yamaguchi[1,2], Ryuichi Nakano[1], Akiyo Nakano[1], Yuki Suzuki[1], Miho Ogawa[2], Ryuji Sakata[2], Hisakazu Yano[1] ([1]Dept. Microbiol. Infect. Dis., Nara Med. Univ., [2]Dept. Bacteriol., BML Inc.)

DP2-15-16/P1-172

Genomic insights into an Enterohaemorrhagic *Escherichia coli* O4:H12 co-carrying *mcr-5* and $bla_{\text{SHV-12}}$

◯Christian Xedzro[1], Toshi Shimamoto[1], Liansheng Yu[2], Yo Sugawara[2], Motoyuki Sugai[2], Tadashi Shimamoto[1] ([1]Lab. Food Microbiol. Hyg., Grad. Sch. Integ. Sci. Life., Hiroshima Univ., [2]Antimicrob. Resist. Res. Cent., Nat. Inst. Infect. Dis.)

DP2-15-17/P1-173

Analysis of the antimicrobial resistance mechanism in Gram-positive mastitis-causing bacteria

◯Kazumi Yokoo[1], Toshi Shimamoto[1], Naoki Suzuki[2], Tadashi Shimamoto[1] ([1]Dept. Microbiology for Food Safety., Sch. Integrated Sciences for Life., Hiroshima Univ., [2]Dept. Terrestrial Field Science., Sch. Integrated Sciences for Life, Hiroshima Univ.)

DP2-16　Pathogenicity 03

Thursday, August 8　10:10–11:10
Digital Poster Group 1 (Main Hall)

Chair: Torahiko Okubo (Hokkaido University)

DP2-16-01/P2-113
The growth and toxin-production property of *S. infantis* in the presence of erythrocyte components
◯Yoshiki Itoh[1], Toshifumi Tomoyasu[1,2], Hideaki Nagamune[1,2], Ayuko Takao[3], Atsushi Tabata[1,2] ([1]Div. Bioresour. Sci., Grad. Sch. Sci & Tech. Innov., Tokushima Univ., [2]Div. Biosci. & Bioind., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ., [3]Dept. Oral Bacteriol., Tsurumi Univ.)

DP2-16-02/P2-114
***Listeria monocytogenes* promotes inflammasome activation through Btk phosphorylation**
◯Hajime Yamauchi, Yasuyuki Matsuda, Hideki Hara (Dept. Infect. Dis., Div. Microbiol. Immunochem., Asahikawa Med. Univ.)

DP2-16-03/P1-115
Functional analysis of Atg8 paralogs in pneumococci-induced hierarchical autophagy
◯Chisato Sakuma[1,2], Michinaga Ogawa[1], Sayaka Shizukuishi[1], Yukihiro Akeda[1] ([1]Bacteriol. I, Nat. Inst. Infect. Dis, [2]Nat. Inst. Agrobiol. Sci, NARO)

DP2-16-04/P1-116
Search for new target molecules used by Chlamydia trachomatis by screening approved drug libraries
◯Saicheng Zhang, Ruiyu Li, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci. Hokkaido Univ.)

DP2-16-05/P2-117
Analysis of protective function of mycobacterial biofilms for bacilli
◯Shota Torigoe[1,2], Kentaro Yamamoto[1], Manabu Ato[1] ([1]Dept. Mycobacteriol. Lepr. Res. Ctr., NIID, [2]Mgmt. Dept. Biosafety, Lab. Anim., and Pathog. Bank, NIID)

DP2-16-06/P2-120
Immunomodulatory Effect of Heat Shock Protein SSA1 Enriched in Hypoxic Secretome of Candida albican
◯Wei Teng[1], Phawinee Subsomwong[1], Kouji Narita[2], Akio Nakane[3], Krisana Asano[1,3] ([1]Dept. Microbiol. Immunol., Hirosaki Univ. Grad. Sch. Med, [2]Inst. Anim. Exp., Hirosaki Univ. Grad. Sch. Med., [3]Dept. Biopolym. Health Sci., Hirosaki Univ. Grad. Sch. Med.)

DP2-16-07/P2-121
Excess cation stress and tolerance mechanisms in Salmonella
◯Yumi Iwadate, James Slauch (Dept. Microbiol, Sch. Mol. Cell Biol., Univ. Illinois.)

DP2-16-08/P1-117
Functional analysis of ribD involved in immune escape of Francisella tularensis
◯Kensuke Shibata[1,2,3], Keishi Takagi[1], Takashi Shimizu[4], Masahisa Watarai[4] ([1]Dept. Microbiol. Immunol., Sch. Med., Yamaguchi Univ., [2]Dept. Ocular Pathology and Imaging Science, Sch. Med., Kyushu Univ., [3]Dept. Mol. Immunol., Sch. Med., Research Inst. Microbial Diseases, Osaka Univ., [4]Joint Fac. Veterinary Medicine, Yamaguchi Univ.)

DP2-16-09/P1-118
Surface antigen conversion at the early stages of infection in relapsing fever borreliae
◯Tomohi Takeuchi[1], Kozue Sato[2], Hiroki Kawabata[2], Ai Takano[1] ([1]Dept. Vet. Med., Joint Fac. Vet. Med., Yamaguchi Univ., [2]Dept. Bac-I, NIID)

DP2-16-10/P1-119
Pathogenic *Leptospira* induces lipolysis in the murine adipocytes in vitro and in vivo
◯Ryo Ozuru, Michinobu Yoshimura, Shotaro Fujiki, Kazunari Ishii, Akinori Shimizu, Yusuke Kurihara, Shuntaro Kuwahara, Kenji Hiromatsu (Dept. Microbiol. Immunol., Sch. Med., Fukuoka Univ.)

DP2-16-11/P1-120
Co-infection of C. pneumoniae and P. gingivalis exacerbates aspiration pneumonia
◯Yoshikazu Naiki[1], Shogo Nakanishi[2], Ayaka Kato[3], Ryo Arai[1], Tomohiko Iwase[1], Masayuki Umemura[4], Akio Mitani[2], Yoshiaki Hasegawa[1] ([1]Dept. Microbiol. Sch. Dent. Aichi Gakuin Univ., [2]Dept. Periodont. Sch. Dent. Aichi Gakuin Univ., [3]Dept. Pediatric. Sch. Dent. Aichi Gakuin Univ., [4]Trop. Biosphere Res. Cent., Univ. Ryukyus)

DP2-16-12/P1-121
Inflammatory responses in the intestinal mucosa of mice infected with *Helicobacter mastomyrinus*
◯Riku Yasuki[1], Ayano Miyauchi[1], Takahiro Yoshizawa[2], Shin Shimada[2], Kazutaka Ohsawa[3], Ritsuko Masuyama[1], Hitoki Yamanaka[2] ([1]Grad. Sch. Gastron. Manag., Ritsumeikan Univ., [2]Res. Ctr. Adv. Sci. Technol., Shinshu Univ., [3]Grad. Sch. Biomed. Sci., Nagasaki Univ.)

DP2-16-13/P1-122
Plasminogen-binding proteins of *Streptococcus pneumoniae* expressed during infection
◯Satoru Hirayama[1], Takumi Hiyoshi[1,2,3], Yoshihito Yasui[1,3], Hisanori Domon[1,2], Yutaka Terao[1,2] ([1]Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch. Med. Dent. Sci., [2]Cent. for Adv. Oral Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci., [3]Div. Periodontol., Niigata Univ. Grad. Sch. Med. Dent. Sci.)

DP2-16-14/P1-123

Pneumococcal protein SufC is released extracellularly by autolysis and binds to host plasminogen

◯Yoshihito Yasui[1,2], Satoru Hirayama[1], Toshihito Isono[1], Takumi Hiyoshi[1,2,3], Hisanori Domon[1,3], Yutaka Terao[1,3] ([1]Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch. Med. Dent. Sci., [2]Div. Periodontol., Niigata Univ. Grad. Sch. Med. Dent. Sci., [3]Cent. for Adv. Oral Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci.)

DP2-16-15/P1-124

Effects of nitrate-reducing bacteria from the gastric cancer patients in H. pylori co-infected mice

◯Marina Komatsubara[1], Yumiko Yamamoto[2], Jumpei Uchiyama[2], Osamu Matsushita[2], Kazuyoshi Gotoh[1], Akari Watanabe[3], Kenji Yokota[1] ([1]Grad. Sch. Health Science, Okayama Univ., [2]Dept. Path. Bacteriol., Grad. Sch. Med. Dent. Pharm., Okayama Univ., [3]Oral Health Care and Rehabilitation, Inst. Biomed. Sci. Tokushima Univ.)

DP2-16-16/P1-125

Analysis of Vi capsular polysaccharide on an alternative *Salmonella* Typhi mouse infection model

◯T. Hoan Pham[1,2], Hirotaka Hiyoshi[2], Toshio Kodama[2] ([1]Grad. Sch. Biomedical Sciences, Nagasaki Univ., [2]Dept. Bacteriology, Inst. Tropical Medicine, Nagasaki Univ.)

DP2-17 Genetics / Genomics / Biotechnology 02

Thursday, August 8 10:10–11:10
Digital Poster Group 2 (Main Hall)

Chair: Mitsuyo Kawaguchiya (Sapporo Medical University)

DP2-17-01/P1-089

Regulation of motility by ArcB/ArcA two-component regulatory system in Vibrio alginolyticus

◯Moe Fujii[1], Kenji Yokota[2], Takehiko Mima[1] ([1]Microbiol., Dept. Med. Techn., Fac. Health Sci., Ehime Pref. Univ. Health Sci., [2]Okayama Univ. Grad. Sch. Health Sci.)

DP2-17-02/P1-090

Identification of pneumococcal modulons based on transcriptome datasets

Yujiro Hirose[1], ◯Toshiki Tabuchi[1], Eri Ikeda[1], Masayuki Ono[1], Masaya Yamaguchi[1,2,3,4], Shigetada Kawabata[1,3] ([1]Dept. Microbiol., Osaka Univ. Grad. Sch. Dent., [2]Bioinfo., Osaka Univ. Grad. Sch. Dent., [3]CiDER. Osaka Univ., [4]OUBIC, RIMD, Osaka Univ.)

DP2-17-03/P2-086

The role of responses against environmental stress on the pathogenicity of *Treponema denticola*

◯Kazuyuki Ishihara[1], Yurie Kitamura[2], Yuichiro Kikuchi[1], Eitoyo Kokubu[1], Keiko Yamashita[2], Atsushi Saito[2] ([1]Dept. Microbiol., Tokyo Dent. Coll., [2]Dept. Periodontol., Tokyo Dent. Coll.)

DP2-17-04/P2-089

Effect of phased A-tracts on α-toxin gene expression in *Clostridium perfringens*

◯Seiichi Katayama[1], Saya Matsui[2], Naoya Hashikawa[1], Hinata Sato[2], Kazuyoshi Aibara[2], Chiharu Tanaka[2], Hirofumi Nariya[3], Nozomu Matsunaga[1] ([1]Dept. Life Sci., Fac. Sci., Okayama Univ. Sci., [2]Dept. Life Sci., Grad. Sch. Sci., Okayama Univ. Sci., [3]Dept. Food Sci., Fac. Human Life, Jumonji Univ.)

DP2-17-05/P2-090

Salmonella adiA mRNA encoding acid resistance core releases sRNA in acidic and anaerobic environment

◯Takeshi Kanda[1], Fang Liu[2], Sarah Reichardt[3], Hoda Kooshapour[3], Alexander Westermann[3], Yanjie Chao[2], Masatoshi Miyakoshi[1] ([1]Inst. Med., Univ. Tsukuba, [2]Shanghai Institute of Immunity and Infection, CAS, [3]Univ. Würzburg)

DP2-17-06/P2-091

Analysis of translation arrest peptides in Alteromonas species

◯Naoko Tsuji, Keigo Fujiwara, Hiraku Takada, Shionobu Chiba (Fac. Life Sci., Kyoto Sangyo Univ.)

DP2-17-07/P2-092

Exploring Cold Shock Protein Variants Across Bacterial Lineages and Analyzing Genome Characteristics

◯Satoshi Hasegawa[1,2], Rerina Inose[1], Teppei Morita[1,3] ([1]Inst. Adv. Biosci., Keio Univ., [2]Fac. Env. Info. Studies, Keio Univ., [3]Grad. Sch. Media & Governance, Keio Univ.)

DP2-17-08/P2-094

Development of Bacteriophage Vectors for Targeted Gene Delivery to Cancer Cells

◯Takashi Sugano, Srivani Veeranarayanan, Yoshifumi Aiba, Kazuhiko Miyanaga, XinEe Tan, Kanate Thitiananpakorn, Shinya Watanabe, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

DP2-17-09/P2-095

Isolation of membrane vesicle-producing bacteria using probes sensing highly curved membranes

◯Itsuki Oono[1], Yusuke Sato[2], Maho Tokuda[3], Masaki Shintani[1,3,4,5], Moriya Ohkuma[4], Hiroyuki Futamata[1,3,5], Yosuke Tashiro[1,3] ([1]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ., [2]Grad. Sch. Sci. Tohoku Univ., [3]Grad. Sch. Sci. Tech. Shizuoka Univ., [4]BRC-JCM, RIKEN, [5]Res. Inst. Green Sci. Tech. Shizuoka Univ.)

DP2-17-10/P1-091

Engineering a safety-enhanced synthetic phage capable of efficiently eliminating MRSA

◯Minh Huong Nguyen[1], Kotaro Kiga[1,2], Veeranarayanan Srivani[1], XinEe Tan[1], Jastin Edrian Cocuangco Revilleza[1], Shinya Watanabe[1], Kazuhiko Miyanaga[1], Yoshifumi Aiba[1], Teppei Sasahara[1], Longzhu Cui[1] ([1]Div. Bacteriology, Dept. Infection and Immunity, Jichi Medical Univ., [2]Research Center for Drug and Vaccine Development, National Inst. Infectious Diseases)

DP2-17-11/P1-092

Gene recombination system for Bacillus subtilis natto by conjugation

◯Wakana Suda[1], Mitsuhiro Itaya[2], Kei Asai[1] ([1]Dept. Biosci., Tokyo Univ. Agricul., [2]Dept. Materials Chem., Shinshu Univ.)

DP2-17-12/P1-093

Reconstitution of flagella biosynthesis of Segmented filamentous bacteria in *Bacillus subtilis*

◯Kei Asai[1], Kouki Tanaka[1], Yoshitoshi Ogura[2], Tomomi Kuwahara[3] ([1]Dept. Biosci., Tokyo Univ. Agricul., [2]Dept. Infect. Med., Kurume Univ. Sch. Med., [3]Dept. Microbiol., Sch. Med., Kagawa Univ.)

DP2-17-13/P1-094

Constructions and evaluations of *Campylobacter jejuni* phase-locked variant libraries

◯Shouji Yamamoto[1], Ken-ichi Lee[1], Akiko Kubomura[1], Sunao Iyoda[1], Yukihiro Akeda[1], Chihiro Aikawa[2], Masashi Okamura[2], Fuhito Hojo[3], Takako Osaki[4], Jiro Mitobe[4] ([1]Dept. Bac. I., Natl. Inst. Infect. Dis., [2]Dep. Vet. Med., Div. Vet. Sci., Obihiro Univ. Agr. Vet. Med., [3]Inst. Laboratory Animals, Graduate Sch. Med., Kyorin Univ., [4]Dept. Infect. Dis., Kyorin Univ. Sch. Med.)

DP2-17-14/P1-095

Zombie cells produced from the minimal synthetic bacterium JCVI-syn3B

◯Nanase Oda[1], Hana Kiyama[1], Makoto Miyata[1,2] ([1]Grad. Sch. Sci., Osaka Metropolitan Univ., [2]OCARINA, Osaka Metropolitan Univ.)

DP2-17-15/P1-096

Effect of *Escherichia coli* toxin-antitoxin systems on phage propagation

◯Ke Liu, Yuichi Otsuka (Grad. Sch. Science and Engineering, Saitama Univ.)

DP2-17-16/P1-097

Activation of the AbpA-AbpB phage defense system in *Escherichia coli*

◯Saya Takita, Takaomi Sasaki, Yunosuke Shintani, Yuichi Otsuka (Grad. Sch. Science and Engineering, Saitama Univ.)

DP2-17-17/P2-096

Development of an antimicrobial phage-capsid targeting Colorectal cancer (CRC)-associated *E. coli*

◯Ola Alessa[1], Kanate Thitiananpakorn[1], Yuya Hidaka[1], Yoshifumi Aiba[1], Shinya Watanabe[1], Kazuhiko Miyanaga[1], Srivani Veeranarayanan[1], XinEe Tan[1], Kotaro Kiga[2], Longzhu Cui[1] ([1]Div. Bacteriol, Sch. Med., Jichi Med. Univ., [2]Research Center for Drug and Vaccine Development, NIID)

DP2-17-18/P2-097

Functional genomics reveals the mechanism of hypoxic adaptation in nontuberculous mycobacteria

◯Yoshitaka Tateishi, Yuriko Ozeki, Akihito Nishiyama, Sohkichi Matsumoto (Dept. Bacteriol., Sch. Med., Niigata Univ.)

DP2-17-19/P2-098

Novel chromosomal markers for detecting *Bacillus anthracis*

◯Tuvshinzaya Zorigt[1], Hideaki Higashi[1], Yoshikazu Furuta[1], Atmika Paudel[1], Harvey Kamboyi[1], Misheck Shawa[1], Mungunsar Chuluun[1], Misa Sugawara[1], Musso Munyeme[2], Bernard Hang'ombe[3] ([1]Div. Infection and Immunity, International Inst. for Zoonosis Control, Hokkaido Univ., [2]Public Health Unit, Disease Control Studies, Sch. Veterinary Medicine, Univ. Zambia, [3]Microbiology Unit, Paraclinical Studies, Sch. Veterinary Medicine, Univ. Zambia)

DP2-18 Antimicrobial agents and resistance 04

Thursday, August 8 10:10–11:10
Digital Poster Group 3 (Main Hall)

Chair: Yasuyuki Matsuda (Asahikawa Medical University)

DP2-18-01/P1-174

Draft genome sequencing of the imipenem-intermediate resistant *Bacteroides thetaiotaomicron*

◯Takatsugu Goto, Masahiro Hayashi, Kaori Tanaka (Div. Anaerobe Res., Inst. for Glyco-core Res., Gifu Univ.)

DP2-18-02/P1-175

Adduct formation between cysteine and streptomycin in bacteria

◯Katsuhiko Ono[1], Takuro Niidome[2], Takaaki Akaike[3], Tomohiro Sawa[1] ([1]Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ., [2]Facul. Adv. Sci. Tech., Kumamoto Univ., [3]Dept. Envir. Health Sci. Mol. Toxicol., Grad. Sch. Med., Tohoku Univ.)

DP2-18-03/P1-176

Extracellular release of metallo-beta-lactamases from clinically isolated gram-negative bacteria

◯Ayaka Uegama, Touya Toyomoto, Hiroyasu Tsutsuki, Tomohiro Sawa (Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ.)

DP2-18-04/P1-177

Characterization of Vancomycin-Resistant Enterococci (VRE) Isolated from Kure Medical Center

○Hidetomo Kobayashi[1], Takeshi Sudo[2], Norimitsu Shimada[2], Mika Shingai[2], Hiroe Yoshino[2], Ryuto Maeda[2], Masahiro Takada[2], Soshi Seike[1], Akihiro Sawa[3], Hiroyasu Yamanaka[1] ([1]Lab. Mol. Microbiol. Sci., Fac. Pharm. Sci., Hiroshima Int. Univ., [2]Nat. Hosp. Org. Kure Med. Cent. and Chugoku Cancer Cent., [3]Res. Cent. for Pharm. Health Care and Sci., Fac. Pharm. Sci., Hiroshima Int. Univ.)

DP2-18-05/P1-178

Analysis of the antimicrobial resistance mechanism of coliform bacteria causing mastitis

○Toshi Shimamoto[1], Naoki Suzuki[2], Tadashi Shimamoto[1] ([1]Dept. Microbiol. Food Safety, Grad. Sch. Integrated Sci. Life, Hiroshima Univ., [2]Dept. Terrestrial Field Sci., Grad. Sch. Integrated Sci. Life, Hiroshima Univ.)

DP2-18-06/P1-179

Genetic characteristics of drug-resistant *Escherichia coli* isolated from wild deer

○Akiyo Nakano[1], Ryuichi Nakano[1], Yuki Suzuki[1], Saori Horiuchi[1], Koichi Yamaguchi[1], Ryuji Sakata[2], Miho Ogawa[2], Hisakazu Yano[1] ([1]Dept. Microbiol. Infect. Dis., Nara Med. Univ., [2]Dept. Bacteriol., BML, Inc.)

DP2-18-07/P1-180

Analysis of disinfectant resistance mechanism via two-component system SarRS in *Serratia marcescens*

○Koshiro Hyakutome[1,2], Moyu Tanishige[1], Riho Yasuoka[1], Yuma Kondo[2], Daichi Morita[2], Wakano Ogawa[3], Takanori Kumagai[2], Teruo Kuroda[2] ([1]Sch. Pharm., Hiroshima Univ., [2]Dept. Microbiol. Med., Sch. Med. Sci., Hiroshima Univ., [3]Dept. Microbiol. & Bioche. Daiichi Univ. of Pharm.)

DP2-18-08/P1-181

AMR surveillance of human and food-derived *Escherichia coli* strains based on the one health approach

○Hiroto Shinomiya, Yukiko Asano, Shintarou Hirai, Yuka Fukuguchi, Yuka Otsuka (Ehime Pref. Inst. Pub. Health Environ. Sci.)

DP2-18-09/P1-182

Characteristics of drug-resistant gram-positive cocci nasal carriage in livestock and farmers

Ryusei Taniguchi[1], ○Ryuichi Nakano[1], Akiyo Nakano[1], Yuki Suzuki[1], Yasuo Ono[2], Hisakazu Yano[1] ([1]Dept. Microbiol. Infect. Dis., Nara. Med. Univ., [2]Teikyo Heisei. Univ.)

DP2-18-10/P1-183

Molecular characteristics of drug resistant *Escherichia coli* isolated from hospital sewage in Japan

○Yuki Suzuki[1], Ryuichi Nakano[1], Akiyo Nakano[1], Yasumitsu Nomura[1], Saori Horiuchi[1], Tomoko Asada[1], Koichi Yamaguchi[1], Kai Saito[2], Mako Watanabe[3], Hisakazu Yano[1] ([1]Dept. Microbiology and Infectious Diseases, Nara Medical Univ., [2]Jichi Medical University Saitama Medical Center, [3]Fukaya Red Cross Hospital)

DP2-18-11/P1-184

Viruses encode tRNA and harbor anti-retron to evade bacterial immunity

○Aa Haeruman Azam[1], Kotaro Chihara[1], Kohei Kondo[2], Tomohiro Nakamura[1], Shinjiro Ojima[1], Wenhan Nie[1], Azumi Tamura[1], Wakana Yamashita[1], Longzhu Cui[3], Kotaro Kiga[1,3] ([1]Res. Cent. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [2]AMR Res. Cent., Natl. Inst. Infect. Dis., [3]Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

DP2-18-12/P1-185

Direct interaction of xenobiotic efflux components MmpL5 and MmpS5 in Mycobacterium tuberculosis

○Mikiko Kawabata[1], Kentaro Yamamoto[2], Hirotaka Tajima[3,4], Manabu Ato[2], Ikuro Kawagishi[1,3,4] ([1]Grad. Sch. Sci. Eng., Hosei Univ., [2]Dept. Mycobacteriol., Lepr. Res. Ctr., NIID, [3]Dept. Frontier Biosci., Hosei Univ., [4]Res. Cen. Micro-Nano Tech., Hosei Univ.)

DP2-18-13/P1-186

Genetic analysis of three carbapenemase-producing *Delftia tsuruhatensis* from hospital sewage

○Hiroyuki Fujikura[1,2,3], Yuki Suzuki[1], Ryuichi Nakano[1], Akiyo Nakano[1], Yasumitsu Nomura[1], Saori Horiuchi[1], Koichi Yamaguchi[1], Kei Kasahara[3], Hisakazu Yano[1] ([1]Dept. Microbiol. Infect. Dis., Nara Med. Univ., [2]Dept. Infect. Dis., Amagasaki Gen. Med. Ctr., [3]Dept. Infect. Dis., Nara Med. Univ.)

DP2-18-14/P1-187

Comparative analysis of AmpC/ESBL-producing and colistin-resistant Escherichia coli in chicken meat

○Tatsuya Nakayama[1], Natsuki Ohata[1], Takahiro Yamaguchi[2], Michio Jinnai[3], Yuko Kumeda[4], Atsushi Hase[5] ([1]Grad. Sch. Int. Sci. Life, Hiroshima Univ., [2]Dept. Microbio., Osaka Inst. Pub. Health, [3]Div. Microbiol., Kanagawa Pref. Inst. Pub. Health, [4]Res. Cent. Microorg. Cont., Osaka Met. Univ., [5]Fac. Contemp. Human Life Sci., Tezukayama Univ.)

DP2-18-15/P1-188

Search for novel antimicrobial resistance genes by analyzing genetic structure of integrons

○Yusuke Tsuda[1], Chihiro Norizuki[2], Yoshichika Arakawa[3] ([1]Div. Clinic. Labo., Kyoto Univ. Hosp., Kyoto Univ., [2]Dept. Med. Tech., Med. Sci., Shubun Univ., [3]Dept. Bacteriol., Med,. Fujita Health Univ.)

DP2-18-16/P1-189
Role of the MexAB-OprM and its regulators in aztreonam resistance of Pseudomonas aeruginosa
○Kota Hayashi[1], Ruri Nozima[1], Anne Ohnishi[1], Go Kamoshida[1], Yoshiaki Kawamura[2], Yuji Morita[1] ([1]Dept. Infection Control Science., Sch. Pharm. Meiji Pharmaceutical Univ., [2]Dept. Microbiol., Sch. Med., Aichi Gakuin Univ.)

DP2-18-17/P1-190
Effects of dual therapy with betamethasone and josamycin in NC/Nga mouse model of atopic dermatitis
○Katsuhiko Matsui, Madoka Muranaka, Tomoka Yamaguchi, Manami Maeda (Dept. Clin. Immunol., Meiji Pharmaceut. Univ.)

DP2-19　Pathogenicity 04

Thursday, August 8　15:10–16:10
Digital Poster Group 1 (Main Hall)

Chair: Keiji Nagano (Health Sciences University of Hokkaido)

DP2-19-01/P1-126
Catheter-associated biofilm infection of non-tuberculosis mycobacteria in mice
○Kentaro Yamamoto[1], Yusuke Tsujimura[1], Shota Torigoe[1,2], Manabu Ato[1] ([1]Dept. Mycobacteriol., Lepr. Res. Ctr., NIID, [2]Mgmt. Dept. Biosafety, Lab. Anim., and Pathog. Bank, NIID)

DP2-19-02/P2-122
***Salmonella enterica* serovar Gallinarum *ratA* contributes to lethal systemic infection in chickens**
○Chihiro Aikawa, Masashi Okamura (Lab. Vet. Microbiol., Div. Vet. Sci., Obihiro Univ. Agric. Vet. Med.)

DP2-19-03/P2-123
Analysis of host response to *Clostridium perfringens* type A infection
Tomoaki Ishihara[1], Yoshihiko Sakaguchi[2], Masahiro Nagahama[2], ○Masaya Takehara[2] ([1]Fac. Pharm. Sci., Nagasaki International Univ., [2]Dept. Microbiol., Fac. Pharm. Sci., Tokushima Bunri Univ.)

DP2-19-04/P2-124
Ability of *Paraclostridium bifermentans* subsp. *muricolitidis* to metabolize selenocysteine
○Ryo Kutsuna, Junko Tomida, Yoshiaki Kawamura (Dept. Microbiol., Sch. Pharm., Aichi Gakuin Univ.)

DP2-19-05/P2-125
Identification of virulence factors by comparative analysis of Vibrio vulnificus clinical isolates
○Yuuka Tonosaki, Ai Saito, Kohei Yamazaki, Shunji Ueno, Takashige Kashimoto (Lab. Vet. Public Health. Sch. Vet. Med., Kitasato Univ.)

DP2-19-06/P2-126
Analysis of immune responses in oral infection of mice with *Candida albicans*
○Kenji Toyonaga[1,2], Jun-ichi Nagao[1,2], Sonoko Tasaki[1], Masayuki Umemura[3], Sari Kishikawa[1,2], Emi Kaji[1], Aoba Iwanuma[1], Masanobu Nakagami[1], Satoru Iwai[1], Yoshihiko Tanaka[1,2] ([1]Div. Infect. Biol., Dept. Funct. Biosci., Fukuoka Dent. Coll., [2]Oral Med. Res. Cent., Fukuoka Dent. Coll., [3]Mol. Microbiol. Gr., TBRC, Univ. Ryukyus)

DP2-19-07/P2-128
Pathogenicity of *Paenibacillus* spp. from honey other than foulbrood pathogens to honeybee larvae
○Daisuke Takamatsu[1,2], Keiko Nakamura[3], Mariko Harada[3], Mariko Okamoto[1], Takashi Mada[1] ([1]Natl. Inst. Anim. Hlth., NARO, [2]Gifu Univ., [3]RIAS)

DP2-19-08/P2-129
Analysis of the effect of ozone ultrafine bubble water against various bacteria and bacterial toxins
○Fumio Takizawa[1], Hisanori Domon[1,2], Satoru Hirayama[1], Toshihito Isono[1], Karin Sasagawa[1], Daisuke Yonezawa[3], Akiomi Ushida[4], Satomi Tsutsuura[5], Yutaka Terao[1,2] ([1]Div. Microbiol. Infect Dis., Niigata Univ. Grad. Sch. Med. Dent. Sci., [2]Cent. For. Adv. Oral Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci., [3]Div. Oral Sci. Health Prom, Niigata Univ. Grad. Sch. Med. Dent. Sci., [4]Inst. Sci. Tech., Niigata Univ., [5]Fac. Agric., Niigata Univ.)

DP2-19-09/P2-130
Analysis of the effect of tyramine on the pathogenesis of European foulbrood in honey bees
○Mariko Okamoto[1], Daisuke Takamatsu[1,2], Ryuichi Uegaki[1], Keiko Nakamura[3], Mariko Harada[3] ([1]NIAH, NARO, [2]UGSVS, Gifu Univ., [3]RIAS)

DP2-19-10/P2-131
Characteristics of nitrate-reducing bacteria from patients with gastritis and gastric cancer
○Serika Kuwagi[1], Yumiko Yamamoto[2], Jumpei Uchiyama[2], Osamu Matsushita[2], Kazuyoshi Gotoh[1], Akari Watanabe[3], Kenji Yokota[1] ([1]Health Science, Okayama Univ., [2]Dept. Path. Bacteriol., Grad. Sch. Med. Dent. Pham. Okayama Univ., [3]Oral Health Care and Rehabilitation, Inst. Biomed. Sciences, Tokushima Univ.)

DP2-19-11/P2-132
Possibility of periodontal bacteria causing changes in liver drug metabolism
○Toshitaka Miura[1], Shuu Suzuki[2], Takako Oikawa[3], Taichi Ishikawa[1] ([1]Div. Mol. Microbiol., Dept. Microbiol., Sch. Dent., Iwate Med. Univ., [2]Div. Oral Maxillofac. Surg., Dep. Reconstructive Oral Maxillofac. Surg., Sch. Dent., Iwate Med. Univ., [3]Div. Periodont., Dep. Conservative Dent., Sch. Dent., Iwate Med. Univ.)

DP2-19-12/P1-127

Hog1-mediated stress tolerance in the pathogenic fungus *Trichosporon asahii*

◯Yasuhiko Matsumoto, Yu Sugiyama, Tae Nagamachi, Asami Yoshikawa, Takashi Sugita (Dept. Microbiol., Meiji Pharm Univ.)

DP2-19-13/P1-128

Mislocalization of the mechanosensor Piezo during leptospiral infection of epithelial cells

◯Isabel Sebastian, Tetsu Yamashiro, Claudia Toma (Dept. Bacteriol., Grad. Sch. Med., Univ. of the Ryukyus)

DP2-19-14/P1-129

The investigation of racemase involved in D-amino acid production by *Metamycoplasma hominis*

◯Takeshi Yamamoto[1], Miki Okuno[1], Yuichi Tsuchiya[2], Yuki Hoshiko[1], Nanae Yamamoto[2], Yumi Imai[1], Yoshitoshi Ogura[1] ([1]Dept. Infect. Med., Sch. Med., Kurume Univ., [2]Dept. Pharmacy., Kyushu Univ. Hosp.)

DP2-19-15/P1-130

Analysis of host infection-related genes of bacteriophages encoding botulinum toxin types C and D

◯Yoshihiko Sakaguchi[1], Akira Take[2], Kazuyoshi Gotoh[3], Yumiko Yamamoto[3], Tomoko Kohda[4], Masafumi Mukamoto[4], Masaya Takehara[1], Tetsuya Hayashi[5], Keiji Oguma[3], Masahiro Nagahama[1] ([1]Facul. Pharm. Sci., Tokushima Bunri Univ., [2]Kitasato Univ. Sch. Med., [3]Dept. Med., Lab. Sci., Grad. Sch. Heal. Sci., Okayama Univ., [4]Grad. Sch. Vet. Sci., Osaka Metropolitan Univ., [5]Facul. Med. Sci., Kyushu Univ.)

DP2-19-16/P1-131

Streptococcus pneumonia infection induced kidney specific depletion of sulfur metabolites in mice

Rahman Azizur, Tianli Zhang, Hiroyasu Tsutsuki, Touya Toyomoto, ◯Tomohiro Sawa (Dept. Microbiol., Grad. Sch. Med., Kumamoto Univ.)

DP2-19-17/P1-198

Involvement of the fungal flora in the colonic microbiota of the colorectal cancer

◯Yodai Hayashi[1], Yoshinori Uchino[1], Yuichi Goto[1], Sayaka Yuda[1], Hiroshi Hijioka[1], Tsuyoshi Sugiura[2], Tatsuo Okui[1] ([1]Dept. Maxillofacial Diagnostic and Surgical Science, Field of Oral and Maxillofacial Rehabilitation, Kagoshima Univ., [2]Div. Oral and Maxillofacial Oncology and Surgical Sciences, Div. Oral and Maxillofacial Reconstructive Surgery, Tohoku Univ.)

DP2-20 Physiology / Structural biology 03

Thursday, August 8 15:10–16:10
Digital Poster Group 2 (Main Hall)

Chair: Hiroshi Miyakawa (Health Sciences University of Hokkaido)

DP2-20-01/P2-065

The type VII secretion system's EsxA reveals a novel function in the sporulation of *Bacillus cereus*

◯Harvey Kamboyi[1], Hideaki Higashi[1], Atmika Paudel[1], Misheck Shawa[1], Misa Sugawara[1], Tuvshinzaya Zorigt[1], Joseph Chizimu[1], Yoshikazu Furuta[1], Bernard Hang'ombe[2], Musso Munyeme[3] ([1]Div. Infection and Immunity, International Inst. for Zoonosis Control, Hokkaido Univ., [2]Microbiology Unit, Paraclinical Studies, Sch. Veterinary Medicine, Univ. Zambia, [3]Public Health Unit, Disease Control Studies, Sch. Veterinary Medicine, Univ. Zambia)

DP2-20-02/P2-066

Novel structure of lipoteichoic acid in *Apilactobacillus kosoi* and its IgA-inducing activity

◯Tsukasa Shiraishi[1], Chiaki Matsuzaki[2], Tai-Ying Chiou[3], Hiroyuki Kumeta[4], Manami Kawada[2], Kenji Yamamoto[5], Tomoya Takahashi[6], Shin-ichi Yokota[1] ([1]Dept. Microbiol., Sch. Med., Sapporo Medical Univ., [2]Research Inst. Bioresources and Biotechnology, Ishikawa Prefectural Univ., [3]Dept. Biotechnol. Environ. Chem., Kitami Inst. Technology, [4]Fac. Adv. Life Sci., Hokkaido Univ., [5]Wakayama Univ., [6]ARSOA Research & Development Center, Arsoa Keioh Group Corp.)

DP2-20-03/P2-067

The biosynthesis of glycopeptidolipid in nontuberculous bacteria

◯Nagatoshi Fujiwara[1], Yuji Miyamoto[2], Yoshihiko Hoshino[2], Naoto Keicho[3], Makoto Nakaya[4], Shinji Maeda[5] ([1]Dept. Food Nutrition, Faclt. Contemp. Human Life Scie., Tezukayama Univ., [2]Nat. Inst. Infec. Dis.: Lep. Res. Cent., [3]The Res. Inst. TB, Jap. Anti-TB Assoc., [4]Org. Res. Prom., Osaka Metrop. Univ., [5]Fac. Pharm., Hokkaido Univ. Scie.)

DP2-20-04/P2-068

Vibrio FliK and FlhB catalyze export switching of the *Salmonella* flagellar type III secretion system

◯Tohru Minamino[1], Miki Kinoshita[1], Keiichi Namba[1,2] ([1]Grad. Sch. Frontier Biosci., Osaka Univ., [2]JEOL YOKOGUSHI, Osaka Univ.)

DP2-20-05/P2-069

Functional analyses of a T9SS PorE protein

Takashi Tominaga, ◯Mikio Shoji, Hideharu Yukitake, Mariko Naito (Dept. Microbiol. Oral Infect. Sch. Biomed. Sci., Nagasaki Univ.)

DP2-20-06/P2-070
Genetic screening of genes involved in membrane vesicles delivery
◯Shion Komatsu[1], Yuki Usukura[1], Nobuhiko Nomura[2], Masanori Toyofuku[2] ([1]Sch. Sci. Tech., Life Ear. Sci, Univ. Tsukuba, [2]MiCS, Fac. Life and Environ. Sci., Univ. Tsukuba)

DP2-20-07/P2-071
Characterization of SusD regarding xylan uptake from the human gut bacterium *Phocaeicola plebeius*
◯Yuki Chikaraishi[1], Hidenori Hayashi[1,2], Shogo Tsuji[1] ([1]Dept. Biotech., Grad. Sch. Eng., Maebashi Inst. Technol., [2]Dept. Biotech., Fac. Eng., Maebashi Inst. Technol.)

DP2-20-08/P1-073
Static cultivation induces avirulent phase conversion in *Bordetella bronchiseptica*
◯Xingyan Ma[1], Nugraga Dendi Krisna[1], Yasuhiko Horiguchi[1,2] ([1]RIMD, Osaka Univ., [2]CiDER, Osaka Univ.)

DP2-20-09/P1-074
Color tuning mechanism of the L/Q switch in Green- and Blue-absorbing proteorhodopsin
◯Tatsuro Nishikino[1], Teppei Sugimoto[1], Hideki Kandori[1,2] ([1]Grad. Sch. Eng., Nagoya Inst. Tech., [2]OptoBio Tech. Res. Cent., Nagoya Inst. of Tech.)

DP2-20-10/P1-075
Analysis of essentiality of GrpE in the production of extracellular amyloids in *E. coli*
◯Canon Fujita[1], Moeko Nara[1], Kotone Ohtaki[1], Rintaro Shigemori[1], Shinya Sugimoto[1,2,3], Yuki Kinjo[1,2] ([1]Dept. Bacteriol., Jikei Univ. Sch. Med., [2]Jikei Center for Biofilm Sci. Technol., Jikei Univ. Sch. Med., [3]Lab. Amyloid Regulation, Jikei Univ. Sch. Med.)

DP2-20-11/P1-076
Screening for lethal elements in the GrpE gene deletion in the genome of *E. coli*
◯Kotone Otaki[1], Moeko Nara[1], Rintaro Shigemori[1], Canon Fujita[1], Shinya Sugimoto[1,2,3], Yuki Kinjo[1,2] ([1]Dept. Bacteriol., Jikei Univ. Sch. Med., [2]Jikei Center for Biofilm Sci. Technol., Jikei Univ. Sch. Med., [3]Lab. Amyloid Regulation, Jikei Univ. Sch. Med.)

DP2-20-12/P1-077
Elucidation of an essential cellular function of GrpE for survival of *E. coli*
◯Rintaro Shigemori[1,2], Shinya Sugimoto[1,2,3], Yuki Kinjo[1,2] ([1]Dept. Bacteriol., Jikei Univ. Sch. Med., [2]Jikei Center for Biofilm Sci. Technol., Jikei Univ. Sch. Med., [3]Lab. Amyloid Reg., Jikei Univ. Sch. Med.)

DP2-20-13/P2-072
Effect of coexistence on biofilm-forming potency of bacteria from used orthokeratology lens cases
◯Ai Watanabe, Yuna Kimura, Taizo Sumide (Menicon Co., Ltd.)

DP2-20-14/P2-073
Group B Streptococcus of Stress-responsive ribonuclease MazF
◯Takuma Okabe[1,2], Rie Aoi[1,2], Akiko Yokota[2], Hiroko Tamiya-Ishitsuka[2], Jiang Yunong[2,3], Satoshi Tsuneda[1], Naohiro Noda[1,2,4] ([1]Dept. Life Sci. & Med. Biosci., Waseda Univ., [2]Biomed. Res. Inst., Natl. Inst. of Adv. Ind. Sci. & Tech. (AIST), [3]Grad. Sch. of Compr. Hum. Sci., Univ. of Tsukuba, [4]SIGMA, Univ. of Tsukuba)

DP2-20-15/P2-074
Overexpression of ribosomal proteins leads to zinc resistance in Escherichia coli
◯Tomoki Kosaki, Riko Shirakawa, Kazuya Ishikawa, Kazuyuki Furuta, Chikara Kaito (Lab. Mol. Biol., Fac. Pharm., Okayama Univ.)

DP2-20-16/P2-075
Limited proteolysis of mycobacterial DNA-binding protein 1 to unveil posttranslational modifications
◯Akihito Nishiyama[1], Yutaka Yoshida[1], Desak NSS Dewi[1], Tomoya Yamazaki[1], Akira Yokoyama[1], Daiki Kobayashi[2], Hitoshi Kondo[1], Yuriko Ozeki[1], Yoshitaka Tateishi[1], Sohkichi Matsumoto[1] ([1]Dept. Bacteriol., Niigata Univ. Sch. Med., [2]Omics Unit, Niigata Univ. Sch. Med.)

DP2-20-17/P2-076
Characterization of Staphylococcus aureus toxin-antitoxin system composed of membrane proteins
◯Fuminori Kato (Grad. Sch. Biomed. Heal Sci., Hiroshima Univ.)

DP2-21　Antimicrobial agents and resistance 05

Thursday, August 8　15:10–16:10
Digital Poster Group 3 (Main Hall)

Chair: Mari Fujita (Health Sciences University of Hokkaido)

DP2-21-01/P1-191
Molecular Analysis of Immunomodulatory Effects of Non-antimicrobial Erythromycin Derivatives
◯Rui Saito[1,2], Hisanori Domon[1,3], Takumi Hiyoshi[1,3], Akari Ikeda[4,5], Tomoyasu Hirose[4,5], Toshiaki Sunazuka[4,5], Yutaka Terao[1,3] ([1]Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch., Med. Dent. Sci., [2]Div. Cariol. Oper. Dent. Endo., Niigata Univ. Grad. Sch. Med. Dent. Sci., [3]Cent. for Adv. Oral. Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci., [4]Omura Inst., Kitasato Univ., [5]Grad. Sch. Infect. Cont. Sci., Kitasato Univ.)

DP2-21-02/P1-192
Analysis of lytic enzyme CD33800 of *Clostridioides difficile*
◯Hiroshi Sekiya[1], Mizuki Takahashi[1], Rui Okazaki[1], Shigehiro Kamitori[2], Eiji Tamai[1] ([1]Dept., Infect. Disease., Pharma., Matsuyama Univ., [2]Res. Faci. Cent. Sci. & Tec. Facul. Med., Kagawa Univ.)

DP2-21-03/P1-193

Antimicrobial susceptibility survey and phylogenetic analysis of *Actinotignum* spp.

○Junko Tomida, Ryo Kutsuna, Ryota Mori, Yoshiaki Kawamura (Dept. Microbiol., Sch. Pharm., Aichi Gakuin Univ.)

DP2-21-04/P1-194

Interaction between the tip of long tail fiber of PP01 phage and a porin of *Escherichia coli*

○Haruka Terasaki, Yuichi Otsuka (Grad. Sch. Science and Engineering, Saitama Univ.)

DP2-21-05/P1-195

Isolation and characterization of lytic phages against colibactin-producing *Escherichia coli*

○Yuya Hidaka[1], Kanate Thitiananpakorn[1], XinEe Tan[1], Yoshifumi Aiba[1], Kazuhiko Miyanaga[1], Teppei Sasahara[1,2], Shinya Watanabe[1], Longzhu Cui[1] ([1]Div. Bacteriol, Sch. Med., Jichi Med. Univ., [2]Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

DP2-21-06/P2-189

Identification of Receptors for Multiple Phylogenetically Novel Escherichia coli Phages

○Tomoyoshi Kaneko[1,2], Satoshi Tsuneda[1,2] ([1]Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., [2]Phage Therapy Inst., Waseda Univ.)

DP2-21-07/P2-190

Exploring the Arsenal: A Comprehensive Study of Staphylococcus aureus Phages for Phage Therapy

○Hiromasa Mizutani[1], Tomoyoshi Kaneko[1,2], Aa Haeruman Azam[3], Kazuki Kitaoka[2,5], Kotaro Kiga[2,3,4], Satoshi Tsuneda[1,2] ([1]Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., [2]Phage Therapy Inst., Waseda Univ., [3]Res. Ctr. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [4]Div. Bacteriol, Sch. Med., Jichi Med. Univ., [5]Shinjuku Satellite Clinic)

DP2-21-08

【Withdrawn】

DP2-21-09/P2-193

Reactive oxygen species generated by 222 nm Far UV-C impair photorepair in Escherichia coli

○Kouji Narita[1,2], Krisana Asano[1,3], Risako Fukushi[1,4], Kyosuke Yamane[5], Yoshihiko Okumura[5], Akio Nakane[1,3,4] ([1]Dept. Microbiol. Immunol., Hirosaki Univ. Grad. Sch. Med., [2]Inst. Animal Exp., Hirosaki Univ. Grad. Sch. Med., [3]Dept. Biopolym. Health Sci., Hirosaki Univ. Grad. Sch. Med., [4]Dept. Nursing, Sch. Health Sci., Hirosaki Univ. Health Welfare, [5]Ushio Inc.)

DP2-21-10/P2-194

Biochemical and structural analysis of the endolysin Ecd09610 catalytic domain from *C. difficile*

○Eiji Tamai[1], Hiroshi Sekiya[1], Yasuhiro Nonaka[2], Shigehiro Kamitori[3], Tomomi Miyaji[1] ([1]Dept. Infec. Dis., Col. Pharm. Sci., Matsuyama Univ., [2]Dept. Endocrinol., Fac. Med., Kagawa Univ., [3]Res. Faci. Cent. Sci. & Tec. Facul. Med., Kagawa Univ.)

DP2-21-11/P2-195

The effects of *Monascus* Fermented Rice Extract on the pathogenicity of toxigenic *Vibrio cholerae*

○Tetsu Yamashiro[1], Jun Xu[1], Rena Kinjo[2], Keiichiro Ishihara[3], Aino Kinjo[2], Shinjiro Tachibana[3] ([1]Dept. Bacteriol. Grad. Sch. Med., Univ. Ryukyus, [2]Grad. Sch. Agri., Univ. Ryukyus, [3]Fac. Agri., Univ. Ryukyus)

DP2-21-12/P2-197

Development of periodontal disease prevention using ultraviolet light-emitting diodes

○Tae Matsumura[1], Misato Suzuki[1], Hiromichi Yumoto[2], Tamotsu Tanaka[1], Mutsumi Aihara[1] ([1]Grad. Sch. Tech. Indust. & Social Sci., Tokushima Univ., [2]Grad. Sch. Inst. of Biomed Sci., Tokushima Univ.)

DP2-21-13/P2-198

Development of a water disinfection system by a combination of UV and chitosan

○Misato Suzuki, Tae Matsumura, Ryushi Kawakami, Tamotsu Tanaka, Mutsumi Aihara (Grad. Sch. Tech. Indust. & Social Sci., Tokushima Univ.)

DP2-21-14/P1-197

Antimicrobial activity of bacterial membrane vesicles-coated silver nanoparticles

○Wei Xu, Ryosuke Yoshii, Sayo Maruyama, Takuro Niidome (FAST, Kumamoto Univ.)

Poster

1. Taxonomy / Epidemiology /Infectious diseases -a. Phylogenetics, taxonomy and strain typing

P1-001/DP1-01-01
New species belonging to the genus *Waltera*
◯Mitsuo Sakamoto, Atsushi Hisatomi, Moriya Ohkuma (RIKEN BRC-JCM)

P1-002/DP1-01-02
Clostridium massiliodielmoense* from dead cattle suggests the need for improved PCR for *Clostridium
◯Takashi Mada[1], Asami Umeda[2], Akira Kodama[2], Daisuke Takamatsu[1,3] ([1]Anim. Infect. Res. Div., Natl. Inst. Anim. Hlth., NARO, [2]Oita LHSC, Oita Pref., [3]Utd. Grad. Sch. Vet. Sci., Gifu Univ.)

P1-003/DP1-01-03
Shallow-Seq; the method for presuming genetic lineage of bacteria with small amount of sequence data
◯Nobuyoshi Yagi[1], Nanase Miyagi[2], Itaru Hirai[2] ([1]Lab. Clin. Physiol., Dept. Health Sci., Univ. Ryukyus, [2]Lab. Microbiol., Dept. Health Sci., Univ. Ryukyus)

P1-004/DP1-01-04
Molecular epidemiological characterization of MRSA from bloodstream infections in Hokkaido
◯Meiji Soe Aung[1], Noriko Urushibara[1], Mitsuyo Kawaguchiya[1], Nobuhide Ohashi[1], Rou Araki[2], Kana Matsubara[2], Masahiko Ito[2], Nobumichi Kobayashi[1] ([1]Dept. Hygiene, Sch. Med., Sapporo Med. Univ., [2]Sapporo Clin. Lab. Inc.)

P1-005/DP1-01-05
Isolation of Oral Drug-Resistant Bacteria from Home-care Patient and Relation to Medical Information
◯Saki Nishihama[1], Miki Matsuo[2,3], Nguyen Tra Mi Le[2,3], Chika Arai[3,4], Toshiki Kajihara[3,4], Yo Sugawara[4], Hiroki Ohge[3,5], Motoyuki Sugai[3,4], Hideki Shiba[1], Hitoshi Komatsuzawa[2,3] ([1]Dept. Biol Endod., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., [2]Dept. Bacteriol., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., [3]Proj. Res. Ctr. for Nosocominal Infectious Diseases, Hiroshima Univ., [4]Res. Cent for AMR, NIID., [5]Dept. Infectious Diseases., Hiroshima Univ. Hosp.)

P1-006/DP1-01-06
Phylogenetic analysis of C. ulcerans isolated from patients and protected cats in Kumamoto
◯Chie Shitada[1], Takatoshi Yamamoto[1], Mikoto Moriguchi[2], Hideyuki Hayashi[3], Misato Mori[4], Hideaki Tokuoka[4], Kazutoshi Matsumoto[4], Chihiro Horiba[5], Makoto Kuroda[5], Motohide Takahashi[1] ([1]Dept. Toxin and Biologicals., Kumamoto Health Science Univ., [2]Kumamotorousai Hospital Clinical Laboratory Center, [3]Kumamoto Univ. Hospital Clinical Laboratory Center, [4]Kumamoto Prefectural Inst. Public Health and Environmental Science, [5]Pathogen Genomics Center Nat. Inst. Infect. Dis.)

P1-007/DP1-01-07
Comparative genomic analysis of *C. jejuni* isolates from Kolkata, India and Toyama
◯Daichi Morita[1], Junko Isobe[2], Emi Maenishi[2], Fumito Maruyama[3], Yuki Yamamoto[1], Hidetoshi Tahara[1], Ayumi Ohno[4], Kei Kitahara[3], Shin-ichi Miyoshi[4,5], Teruo Kuroda[1] ([1]Grad. Sch. Bio. Heal. Sci., Hiroshima Univ., [2]Toyama Inst. Heal., [3]The IDEC Inst., Hiroshima Univ., [4]Collab. Res. Cent. of Okayama Univ. for Inf. Diseas. India, [5]Grad. Sch. Med., Dent. & Pharm. Sci., Okayama Univ.)

P1-008/DP1-01-08
Whole-genome analysis of Bordetella parapertussis Isolated in Japan
◯Kentaro Koide[1], Azusa Onodera[2], Masahiro Kodana[2], Shintarou Ichimura[2], Nao Otsuka[1], Masataka Goto[1], Kazunari Kamachi[1], Tsuyoshi Kenri[1] ([1]Dept. Bact. II, Nat. Inst. Infectious Diseases, [2]Dept. Clin. Lab., Saitama Med. Univ. Hosp.)

1. Taxonomy / Epidemiology /Infectious diseases -b. Epidemiology and molecular epidemiology

P1-009/DP1-01-17
Drug Resistance and Molecular Typing of Campylobacter Associated with Food Poisoning in Saitama
◯Yuki Koyama, Shunsuke Kubokawa, Kotaro Yagi, Asami Arashima, Satomi Kando, Rie Doi, Kazumi Narisawa (Dept. Food Microbiol., Saitama Inst. Pub. Health)

P1-010/DP1-01-18
Molecular epidemiology of pathogenic Leptospira spp. in bats in Japan
◯Kazuki Kiuno[1], Miyuka Nishizato[1], Weuyin Hu[1], Saki Mitsunaga[1], Takashi Murakami[2], Daisuke Koyabu[3], Ai Takano[4], Nobuo Koizumi[5], Hiroshi Shimoda[1], Daisuke Hayasaka[1] ([1]Dept. Micro., Vet. Med., Yamaguchi Univ., [2]Div. Cultural Properties Protection, Mine City, [3]Dept. Precision Medicine., Res and Dev. Ctr., Tsukuba Univ., [4]Dept. Epi., Vet. Med., Yamaguchi Univ., [5]Dept. Bacteriol. I, Natl. Inst. Infect. Dis.)

P1-011/DP1-01-19
Molecular epidemiological analysis of Legionnaires' disease in Toyama Prefecture, Japan
◯Jun-ichi Kanatani, Junko Isobe, Keiko Kimata, Kaho Ikeda, Kazuki Saito, Emi Maenishi, Kazunori Oishi (Dept. Bacteriol., Toyama Inst. Health)

P1-012/DP1-07-01
Current trends in serotype distribution of *Streptococcus pneumoniae* isolated from children in 2023
◯Mitsuyo Kawaguchiya[1], Noriko Urushibara[1], Meiji Soe Aung[1], Nobuhide Ohashi[1], Yuuki Kimura[2], Yuuka Horino[2], Masahiko Ito[2], Nobumichi Kobayashi[1] ([1]Dept. Hygiene, Sapporo Medical Univ. Sch. Med., [2]Sapporo Clinical Laboratory Inc.)

P1-013/W2-7

Molecular epidemiology of *stx2f* EHEC strains isolated from asymptomatic carriers

◯Ken Kikuchi[1], Yuko Arai[1], Ran Abe[1], Akio Noguchi[2], Ko-ichi Uno[2], Hiroshi Kaneko[2], Toshio Sato[2] ([1]Dept. Infect. Dis., Tokyo Women's Med Univ, [2]Japan Microbiological Institute)

P1-014/DP1-07-03

Molecular epidemiology of methicillin-resistant *Staphylococcus pseudintermedius* in canine pyoderma

◯Takashi Sasaki[1], Masahiro Yamasaki[2], Kazuki Harada[3], Koji Nishifuji[4] ([1]Animal Research Center, Sch. Med., Sapporo Med. Univ., [2]Lab. Vet. Small Animal Int. Med., Facult. Agr., Iwate Univ., [3]Dept. Vet. Int. Med., Facult. Agr., Tottori Univ., [4]Div. Animal Life Sci., Fac. Agr., Tokyo Univ. of Agriculture and Tech.)

P1-015/DP1-07-04

Whole genome sequence analysis of extensively drug-resistant *Acinetobacter baumannii* ST1050

◯Satoshi Nishida[1], Yasuo Ono[1,2], Yusuke Yoshino[1] ([1]Dept. Microbiol. Immunol., Sch. Med., Teikyo Univ., [2]Fac. Health Med. Sci., Teikyo Heisei Univ.)

P1-016/DP1-07-05

Specific clonal types of MRSA associated with skin and soft tissue infections

Hiroshi Kaneko, Hana Kobayashi, Shogo Otake, Yuka Yanagi, Takumi Saito, Miki Kanai, ◯Hidemasa Nakaminami (Dept. Clin. Microbiol., Sch. Pharm., Tokyo Univ. Pharm. and Life Sci.)

1. Taxonomy / Epidemiology /Infectious diseases -c. Isolation and characterization of clinical isolates

P1-017/W2-3

Novel *Streptococcus* species forming extremely long chains isolated from the human oral cavity

◯Masanori Saito, Noriko Shinozaki-Kuwahara, Tomomi Hashizume-Takizawa, Hidenobu Senpuku (Dept. Microbiol. Immunol., Sch. Dent., Matsudo, Nihon Univ.)

P1-018

Microbiological profiling of the surfaces of used-masks: Effects of non-woven fabric mask sprays

◯Takashi Abe, Anna Wakui, Misato Miyazawa, Aya Sato, Miho Kawachi, Mirai Sekiguchi, Manami Imai, Shingo Maruyama, Hiroto Sano, Takuichi Sato (Div. Clin. Chem., Niigata Univ. Grad. Sch. Health Sci.)

P1-019/DP1-07-14

Characterization of GN-ARB from nasal and oral cavities and their relationship to bacterial flora

◯Tomoki Kawayanagi[1,2], Miki Matsuo[2,3], Nguyen Tra Mi Le[2,3], Mikari Asakawa[4], Yo Sugawara[5], Chika Arai[5], Toru Takeshita[4], Hideki Shiba[1], Motoyuki Sugai[5], Hitoshi Komatsuzawa[2,3] ([1]Dept. Biological Endodont., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., [2]Dept. Bacteriol., Grad. Sch. Biomed., Hiroshima Univ., [3]Project. Research Center for Oral Infectious Diseases., Hiroshima Univ., [4]Sec. Preventive & Public Health Dentist., Div. Oral Health., Growth and Deve., Kyushu Univ., [5]Antimicrobial Resistance Research Ctr., National Inst. Infectious Dis.)

P1-020

Molecular microbiological profiling of green tea bottled beverages: A screening experiment

◯Yuki Kato[1], Anna Wakui[1,2], Misato Miyazawa[1], Miho Kawachi[1], Takashi Abe[1], Aya Sato[1], Manami Imai[1], Haruna Sato[1], Rika Okabe[1], Takuichi Sato[1] ([1]Div. Clin. Chem., Niigata Univ. Grad. Sch. Health Sci., [2]Dept. Med. Technol., Niigata Univ. Health Welfare)

P1-021/DP2-13-01

Development of real-time PCR assay specific for *astA* of *Escherichia coli*

◯Sakura Arai[1], Tadasuke Ooka[2], Nobuyo Ikeda[3], Kaori Shimmen[4], Koji Yokoyama[5], Emi Arikawa[6], Mayumi Kadoguchi[7], Akito Mizokoshi[8], Takayuki Konno[9], Yuka Kojima[10], Satomi Kando[11], Noriko Konishi[12], Shouhei Hirose[1], Yukiko Kudo[1] ([1]Div. Microbiol., Natl. Inst. Health Sci., [2]Dept. Microbiol., Grad. Sch. Med. Dent. Sci., Kagoshima Univ., [3]Hiroshima City Inst. Public Health, [4]Himeji Inst. Env. Health, [5]Fukui Inst. Health and Env. Sci., [6]Kitakyushu Inst. Health and Environ. Sci., [7]Kumamoto City Env. Res. Ctr., [8]Oita Pref. Inst. Health. Environ., [9]Akita Pref. Res. Ctr. Public Health and Env., [10]Kawasaki City Inst. for Public Health, [11]Saitama Inst. Public Health, [12]Tokyo Metropol. Inst. Public Health)

P1-022/DP2-13-02

Diagnosis of *Helicobacter suis* infection as a potential contributor to gastric malignancies

◯Hidenori Matsui[1,2], Emiko Rimbara[1], Sae Aoki[1], Keigo Shibayama[2], Masato Suzuki[3] ([1]Dept. Bacteriol. II, NIID, [2]Dept. Bacteriol., Sch. Med., Nagoya Univ., [3]AMR Res. Cent., NIID)

P1-023/DP2-13-03

Evaluation of MALDI Biotyper system in rapid identification of *Bacillus anthracis* spores

◯Yoshihito Fujinami, Hiroaki Nakahara, Junji Hosokawa-Muto, Akira Imamura (National Research Inst. Police Science)

P1-024/DP2-13-04
Optimization of tuberculosis diagnostics by detection of Ag85B antibody titer
◯Tomoya Yamazaki[1], Desak Nyoman Surya Suameitria Dewi[2], Satoshi Ishikawa[1,3], Yutaka Yoshida[1], Yuriko Ozeki[1], Akihito Nishiyama[1], Yoshitaka Tateishi[1], Sohkichi Matsumoto[1] ([1]Dept. Bacteriol., Sch. Med., Niigata Univ., [2]Dept. Microbiol., Sch. Med., Ciputra Univ., [3]Fukuyama Zoo)

P1-025/DP2-13-05
Improved Accurate Quantitative Analysis of Microbiome Using DNA Standard for 16S rRNA NGS analysis
◯Honami Miyakura, Yoshitaka Kimura (TAKARA BIO INC.)

P1-026/DP2-13-06
Detection of MVOCs from Keratinase Mutant Strain of *Trichophyton benhamiae*
◯Toha Mizutani[1], Tsuyoshi Yamada[2,3], Koichi Makimura[2], Shinichi Iwaguchi[1] ([1]Dept. Biol. Sci., Fac. Sci., Nara Women's Univ., [2]Inst. Med Mycol., Teikyo Univ., [3]Asia Intl. Inst. Infect. Dis. Ctrl., Teikyo Univ.)

1. Taxonomy / Epidemiology /Infectious diseases -e. Others

P1-027/DP2-13-13
***Anaplasma* spp. in Yaku-deer of Yaku-shima Island, Kagoshima prefecture**
◯Masako Andoh[1,2], Mayu Goto[1], Takaki Nakamura[1] ([1]Vet. Med., Kagoshima Univ., [2]Int. Ctr. Is. Stud., Kagoshima Univ.)

P1-028/DP2-13-14
Effect of oral resident bacteria on risk of ocular infections when wearing orthokeratology lenses
◯Yuna Kimura, Ai Watanabe, Taizo Sumide (Menicon Co., Ltd.)

P1-029/W2-9
Efficiency of transmission of *Helicobacter pylori* in an animal model of mother-to-child infection
◯Takako Osaki[1], Fuhito Hojo[2], Kentaro Oka[3], Satoshi Kurata[4], Motomichi Takahashi[1], Jiro Mitobe[1], Shigeru Kamiya[1,3] ([1]Dept. Infect. Dis., Kyorin Univ. Sch. Med., [2]Inst. Lab. Animals, Grad. Sch. Med, Kyorin Univ., [3]R&D Division, Miyarisan Pharmaceutical Co., Ltd., [4]Div. Microbial., Dept. Med Technol., Fac. Health Sci., Kyorin Univ.)

P1-030/DP2-13-15
Prevalence of *Corynebacterium ulcerans* in cynomolgus monkeys in Japan: retrospective analysis
◯Miyuki Kimura[1], Kenzo Yonemitsu[2], Yasushi Ami[2], Asuka Hirai-Yuki[2], Mitsutoshi Senoh[1], Tsuyoshi Kenri[1], Ken-Ichi Hanaki[2], Masaaki Iwaki[2] ([1]Dept. Bacteriology II, NIID, [2]Management Dept. Biosafety, Lab. Animal, and Pathogen Bank, NIID)

2. Ecology -a. Ecology, symbiosis and environmental microbes

P1-031/DP1-03-01
Reactivity of autologous serum IgG to gut microbes in pediatric ulcerative colitis patients
◯Tabassum Nafisa[1], Haruyuki Imaohji[1], Takeo Kondo[2], Sonoko Kondo[2], Emmanuel Munyeshyaka[1], Ayano Tada[1], Takashi Kusaka[2], Tomomi Kuwahara[1] ([1]Dept. Microbiol., Sch. Med., Kagawa Univ., [2]Dept. Pediatr., Sch. Med., Kagawa Univ.)

P1-032/W2-5
Bile salt hydrolase degrades β-Lactam antibiotics and confers antibiotic resistance on Lactobacillus
◯Hiroyuki Kusada, Hideyuki Tamaki (BPRI., Dept. Life Sci. Biotechnol., AIST)

P1-033/DP1-03-02
Comparative analysis of Legionella symbiosis mechanisms between different protist hosts
◯Kenta Watanabe, Takashi Shimizu, Masahisa Watarai (Dept. Vet Med., Yamaguchi Univ.)

P1-034/W2-4
Comparative genomic analysis of long-term colonization of Bifidobacterium longum in the human gut
◯Ayana Shinomiya[1,2], Tomoya Tsukimi[1], Tsubasa Watabe[1], Yuki Yoshida[1], Haruo Suzuki[1,2], Kumiko Kato[3], Toshitaka Odamaki[3], Mitsuhiko Sato[4], Yoshitoshi Ogura[5], Shinji Fukuda[1] ([1]Inst. Adv. Biosci, Keio Univ., [2]Fac. Environ. Info. Stud., Keio Univ., [3]Innov. Res. Inst., Morinaga Milk Indust., [4]Kazusa DNA Res. Inst., [5]Kurume Univ. Sch. Med.)

P1-035/W2-1
Stomatal manipulation by leaf-inhabiting bacteria and its significance in plant health
◯Rikako Hirata[1], Utami Yuniar Devi[2], Kei Hiruma[2], Akira Mine[1] ([1]Grad. Sch. Agr., Kyoto Univ., [2]Grad. Sch. Arts and Sci., Univ. Tokyo)

P1-036/W2-6
Bacterial Olympics Achieved by Microfluidic Devices
◯Yoshiki Shimada[1], Aoba Yoshioka[2], Naoki Uemura[2], Daisuke Nakane[2], Tetsuo Kan[1] ([1]Dept. Mech. and Int. Sys. Eng., UEC, [2]Dept. Eng. Sci., UEC)

2. Ecology -b. Microbiota

P1-037/DP1-03-09
Dysbiosis of oral microbiome persists after treatment-induced remission of periodontal disease
◯Kazuma Yama, Takuya Inokuchi, Atsushi Sato, Kota Tsutsumi, Yasushi Kakizawa (R&D., Lion Corp.)

P1-038/DP1-03-10

An intestinal mucosa-associated bacterium which attenuates colitis

◯Jiayue Yang[1], Nozomu Obana[2,3], Gaku Nakato[4], Nobuhiko Nomura[3], Shinji Fukuda[1,5] ([1]Inst. Adv. Biosci., Keio Univ., [2]TMRC, Inst. Med., Univ. of Tsukuba, [3]Inst. Life Env. Sci., Univ. of Tsukuba, [4]KISTEC, [5]Metagen. Inc.)

P1-039/DP1-03-11

Gut microbiota controls the severity of dextran sulfate sodium-induced colitis in mice

◯Eri Ikeda[1], Masaya Yamaguchi[1,2,3,4], Shigetada Kawabata[1,3] ([1]Dept. Microbiol., Osaka Univ. Grad. Sch. Dent., [2]Bioinfo., Osaka Univ. Grad. Sch. Dent., [3]CiDER. Osaka Univ., [4]Bioinfo, RIMD, Osaka Univ.)

P1-040/DP1-03-12

Subgingival Plaque-Specific Bacteria in Severe Periodontitis Identified by Long-Read Sequencing

◯Jiale Ma, Shinya Kageyama, Mikari Asakawa, Toru Takeshita (Sect. Prev. Public Health Dent., Grad. Sch. Dent., Kyushu Univ.)

P1-041/DP1-03-13

Relationship between the skin bacterial community and skin condition

◯Ryosuke Kadoya, Ayano Kondo, Ayaka Matsukawa (Dept. Food and Nutrition, Sch. Life Studies, Sugiyama Jogakuen Univ.)

P1-042/DP1-03-14

Characterization and application of lytic bacteriophage to control *T. ramosa* in microbial consortia

◯Priyanka Baranwal, Kazuhiko Miyanaga, Yuya Hidaka, XinEe Tan, Kanate Thitiananpakorn, Yoshifumi Aiba, Shinya Watanabe, Longzhu Cui (Dept. Inf. Immunity., Sch. Med., Jichi Med. Univ.)

P1-043/DP1-09-01

Characterization of the sensitive skin microbiome of Japanese women

◯Nakako Shibagaki[1], Mako Yamamoto[2], Kosuke Fujimoto[3,4], Seiya Imoto[2], Satoshi Uematsu[3,4] ([1]Mirai Inst., Shiseido Co., Ltd., [2]Div. Health Medical Intelligence, The Inst. Medical Science, The Univ. of Tokyo, [3]Div. Metagenome Medicine, Human Genome Center, The Inst. Medical Science, The Univ. of Tokyo, [4]Dept. Immunology and Genomics, Grad. Sch. Medicine, Osaka Met. Univ.)

P1-044/W2-2

Multiple metagenomic analysis for the oral microbiome at a high resolution

◯Masaya Yamaguchi[1,2,3,4], Toshihiro Uchihashi[5], Shigetada Kawabata[2,4] ([1]Bioinform. Res. Unit, Osaka Univ. Grad. Sch. Dent., [2]Dept. Microbiology, Osaka Univ. Grad. Sch. Dent., [3]Bioinform. Cent., RIMD, Osaka Univ., [4]CiDER, Osaka Univ., [5]Dept. OMFS, Osaka Univ. Grad. Sch. Dent.)

2. Ecology -c. Growth and culture conditions

P1-045/DP1-09-09

Effect of long-term passage on the biofilm formation of *Fusobacterium nucleatum*

◯Ayano Tada, Haruyuki Imaohji, Emmanuel Munyeshyaka, Nafisa Tabassum, Tomomi Kuwahara (Dept. Microbiol., Med., Kagawa Univ.)

P1-046/DP1-09-10

Investigation of methods for inducing germination of spore-forming bacteria

◯Atsushi Hisatomi, Moriya Ohkuma, Mitsuo Sakamoto (RIKEN BRC-JCM)

P1-047/W3-8

***Chlamydia trachomatis* favors hypoxia because it suppresses methionine-related metabolites**

◯Hiroyuki Yamaguchi[1], Ruiyu Li[1], Saicheng Zhang[1], Sora Kuroiwa[1], Torahiko Okubo[1], Jeewan Thapa[2], Hideaki Higashi[3] ([1]Fac. Health Science, Hokkaido Univ., [2]Div. Bioresources, Int. Inst. Zoonosis Ctr., Hokkaido Univ., [3]Div. Infection and Immunity, Int. Inst. Zoonosis Ctr., Hokkaido Univ.)

P1-048/W3-6

Extended Vibrio cholerae cultivation induces flagella genes mutation with prolonged culturability

◯Kazuhisa Okada, Amonrattana Roobthaisong, Shigeyuki Hamada (RCC-ERI, RIMD, Osaka Univ.)

3. Physiology / Structural biology -a. Metabolism, biosynthesis and metabolome

P1-049/DP1-02-01

Serum albumin promotes reactivation of VBNC (viable but non-culturable) *Mycobacterium tuberculosis*

◯Yuta Morishige[1], Yoshiro Murase[1], Kinuyo Chikamatsu[1], Hiroyuki Yamada[1], Akio Aono[1], Yuriko Igarashi[1], Akiko Takaki[1], Satoshi Mitarai[1,2] ([1]Dept. Mycobac. Ref. Res., Res. Inst. Tubercul., JATA, [2]Dept. Basic Mycobacteriol., Grad. Sch. Biomed. Sci., Nagasaki Univ.)

P1-050/DP1-02-02

Malate dehydrogenase and malate: quinone oxidoreductase works as NADH oxidation system in C. jejuni

◯Augustin Kabongo[1,2], Rajib Acharjee[1,2], Sakura Takaya[1,2], Ozan Gundogdu[4], Tomoo Shiba[3], Kiyoshi Kita[5], Daniel Ken Inaoka[1,2] ([1]Dept. Glob. Health, Sch. Trop. Med. and Glob. Health, Nagasaki Univ., [2]Dept. Mol. Infect. Dyn., Inst. Trop. Med., Nagasaki Univ., [3]Grad. Sch. Sc. Tech., Kyoto Inst. Techn., [4]London Sch. Hyg. Trop. Med., [5]Dept. Host Defens. Biochem., Inst. Trop. Med., Nagasaki Univ.)

P1-051/DP1-02-03

Tolelance to oxidative stress by sulfide; quinone oxidoreductase in Mycobacterium smegmatis

◯Yuichi Matsuo[1], Tomoo Shiba[2], Kenji Iyoda[2], Uta Nakai[2], Akina Ota[2], Kiyoshi Kita[3,4], Daniel Ken Inaoka[3,5] ([1]Dept. Health Sciences., Sch. Med., Kumamoto Univ., [2]Dept. Appl. Biol., Grad. Sch. Sci. Technol., Kyoto Inst. Technol., [3]Sch. Trop. Med. and Glob. Health, Nagasaki Univ., [4]Dept. Host-Defense Biochem., Inst. of Trop. Med. (NEKKEN), Nagasaki Univ., [5]Dept. Molecular Infection Dynamics, Inst. of Trop. Med. (NEKKEN), Nagasaki Univ.)

3. Physiology / Structural biology -b. Motility

P1-052/DP1-02-07

The Role of Morphological Adaptability in *Vibrio cholerae*'s Motility and Pathogenicity

◯Jun Xu[1], Keigo Abe[2], Toshio Kodama[3], Marzia Sultana[4], Erika Kuba[1], Shiyu Tsunoda[1], Shuichi Nakamura[2], Tetsu Yamashiro[1] ([1]Dept. Bacteriol., Grad. Sch. Med., Univ. Ryukyus, [2]Dept. Appl. Phys., Grad. Sch. Eng., Tohoku Univ., [3]NEKKEN, Grad. Sch. Med., Nagasaki Univ., [4]Infectious Diseases Division, ICDDR, B.)

P1-053/DP1-02-08

Distinct roles of sheath proteins in coiling and rigidity reinforcement of *Leptospira* flagella

◯Nobuo Koizumi[1], Akihiro Kawamoto[2], Toshiki Kuribayashi[3], Masatomo Morita[1], Shuichi Nakamura[3] ([1]Dept. Bactoriol. I, Natl. Inst. Infect. Dis., [2]IPR, Osaka Univ., [3]Dept. Appl. Phys., Tohoku Univ.)

P1-054/DP1-02-09

Water flow triggers adhesion of gliding bacteria to solid surfaces

◯Motomu Araki, Naoki Uemura, Daisuke Nakane (Dept. Eng. Sci., UEC)

P1-055/DP1-02-10

An outer membrane protein governs cell rigidity and swimming stability of *Leptospira interrogans*

◯Shuichi Nakamura[1], Keigo Abe[1], Hiroko Takazaki[2], Mika Hirose[2], Kyosuke Takabe[3], Takayuki Kato[2], Nobuo Koizumi[3] ([1]Grad. Sch. Eng., Tohoku Univ., [2]IPR, Osaka Univ., [3]Dept. Bactoriol. I, NIID)

P1-056/DP1-02-11

Correlation between morphological and motile traits indicated by artificial intelligence

◯Kyosuke Takabe[1], Souichi Ugawa[2], Nobuo Koizumi[1], Shuichi Nakamura[2] ([1]Dept. Bacteriol. I, NIID, [2]Dept. Appl. Phys., Grad. Sch. Eng., Tohoku Univ.)

P1-057/W3-3

Narrow space triggers flagellar wrapping of *Helicobacter pylori*

◯Sarara Yokohama[1], Emiko Rimbara[2], Yoshiki Shimada[3], Tetsuo Kan[3], Tsuyoshi Kenri[2], Daisuke Nakane[1] ([1]Dep. Eng. Sci., UEC, [2]Dept. Bacteriol II, NIID, [3]Dep. Mech. Intell. Syst., UEC)

3. Physiology / Structural biology -c. Signal transduction (intracellular and intercellular)

P1-058/W3-1

A Gram-positive bacterium induces Quorum Sensing in a Gram-negative bacterium

◯Sui Sugimoto[1], Chikaho Sano[1], Toshiki Nagakubo[2,3], Nobuhiko Nomura[2,3], Masanori Toyofuku[2,3] ([1]Grad. Sch. Life Environ. Sci., Univ. Tsukuba, [2]Fac. Life and Environ. Sci., Univ. Tsukuba, [3]MiCS (Microbiology Research Center for Sustainability), Univ. Tsukuba)

P1-059/DP1-08-01

A lipoprotein involved in membrane vesicle-mediated iron acquisition in Corynebacterium glutamicum

◯Mao Fujita[1], Toshiki Nagakubo[2,3], Kayuki Kawashima[1], Nobuhiko Nomura[2,3], Masanori Toyofuku[2,3] ([1]Grad. Sch. Life Environ. Sci., Univ. Tsukuba, [2]Fac. Life and Environ. Sci., Univ. Tsukuba, [3]MiCS (Microbiology research Center for Sustainability), Univ. Tsukuba)

P1-060/DP1-08-02

Chemotaxis and motilities of *Clostridium botulinum* and *Clostridium sporogenes*

◯So-ichiro Nishiyama, Shohei Koike, Nao Iwahashi (Fac. App. Life Sci., Niigata Univ. Pharm. Med. Life Sci.)

P1-061/DP1-08-03

Exploration of target molecules involved in the MAPK and PI3K-AKT pathway used by C. trachomatis

◯Sora Kuroiwa, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

P1-062/DP1-08-04

Distinct iron-responsive regulation by Fur1 and Fur2 in *Ralstonia pseudosolanacearum* strain OE1-1

◯Sora Tateda, Tatsuya Ueyama, Akinori Kiba, Kouhei Ohnishi, Yasufumi Hikichi, Masayuki Tsuzuki (Fac. Agric. and Mar. Sci., Kochi Univ.)

3. Physiology / Structural biology -d. Cell surface structure, membrane structures and cytoskeleton

P1-063/DP1-08-10
Phase variable regulation of surface structures by promoter inversions in *Bacteroides vulgatus*
◯Emmanuel Munyeshyaka[1], Haruyuki Imaohji[1], Nafisa Tabassum[1], Ayano Tada[1], Hisashi Yamasaki[2], Tomomi Kuwahara[1] ([1]Dept. Microbiol., Sch. Med., Kagawa Univ., [2]Dept. Biology., Hyogo Med. Univ.)

P1-064/DP1-08-11
Cloning of *murE* of PG synthesis from lactic acid bacteria to *E. coli* and characters of transformants
◯Sho Noguchi, Sakura Onoue, Kazuyoshi Kawahara (Dept. Biosci., Col. Sci. Eng., Kanto Gakuin Univ.)

P1-065/W3-2
Cell division defect in Group A Streptococcus caused by E. coli-derived extracellular vesicle
◯Yu Kawagishi, Kazunori Murase, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

P1-066/DP1-08-12
Enterobacterial common antigen flippase wzxE is required for E. coli survival in plant environment
◯Saki Yamaguchi, Kazuya Ishikawa, Kazuyuki Furuta, Chikara Kaito (Lab. Mol. Biol., Fac. Pharm., Okayama Univ.)

P1-067/DP1-08-13
Characterization of novel actin-like protein Mad28 involved in magnetosome positioning
◯Rino Shimoshige[1], Azuma Taoka[2,3] ([1]Grad. Sch., Nat. Sci. Tech., Kanazawa Univ., [2]Fac. Biol. Sci. Tech., Inst. Sci. Eng., Kanazawa Univ., [3]NanoLSI, Kanazawa Univ.)

P1-068/DP1-08-14
Analysis of subcellular localization of FtsZ in bacteria with the minimum genome
◯Daiki Shimizu, Masafumi Hayashi, Daisuke Shiomi (Dept. Life Sci., Col. Sci., Rikkyo Univ.)

P1-069/W3-5
Reconstitution of *Haloplasma contractile* cell wall in JCVI-syn3.0
◯Taishi Kasai[1], Shingo Kato[2], Daisuke Shiomi[1] ([1]Dept. Life Sci., Col. Sci., Rikkyo Univ., [2]JCM. BRC. RIKEN)

3. Physiology / Structural biology -e. Secretion and transport

P1-070/DP1-08-18
The route of intrabacterial nanotransportation system for VacA in *Helicobacter pylori*
◯Hong Wu[1], Yoshihiko Fujioka[1], Noritaka Iwai[2], Shoichi Sakaguchi[1], Youichi Suzuki[1], Takashi Nakano[1] ([1]Dept. Microbiol. & Infect. Cont., Fac. Med., Osaka Med. & Pharm. Univ., [2]Grad. Sch. Biosci. & Biotechnol, Tokyo Inst. of Tech.)

P1-071/W3-4
Exploring Another Transition State of MFS-Type Drug Efflux Transporter MdfA in the Transport Cycle
Satomi Inaba-Inoue[1,2], Toshio Moriya[1], ◯Mikio Tanabe[1] ([1]SBRC., IMSS, KEK, [2]Fac. Adv. Life. Sci., Hokkaido Univ.)

P1-072/W3-7
Characterization of a novel pneumococcal ABC transporter involved in antibiotic efflux
◯Atsushi Taguchi[1,4], Junso Fujita[2], Mikio Tanabe[3], Daisuke Takaya[4], Kaori Fukuzawa[4], Keiichi Namba[2], Kunihiko Nishino[1,4] ([1]SANKEN, Osaka Univ., [2]Grad. Sch. Front. Biosci., Osaka Univ., [3]SBRC, KEK, [4]Grad. Sch. Pharm. Sci., Osaka Univ.)

3. Physiology / Structural biology -f. Others

P1-073/DP2-20-08
Static cultivation induces avirulent phase conversion in *Bordetella bronchiseptica*
◯Xingyan Ma[1], Nugraga Dendi Krisna[1], Yasuhiko Horiguchi[1,2] ([1]RIMD, Osaka Univ., [2]CiDER, Osaka Univ.)

P1-074/DP2-20-09
Color tuning mechanism of the L/Q switch in Green- and Blue-absorbing proteorhodopsin
◯Tatsuro Nishikino[1], Teppei Sugimoto[1], Hideki Kandori[1,2] ([1]Grad. Sch. Eng., Nagoya Inst. Tech., [2]OptoBio Tech. Res. Cent., Nagoya Inst. of Tech.)

P1-075/DP2-20-10
Analysis of essentiality of GrpE in the production of extracellular amyloids in *E. coli*
◯Canon Fujita[1], Moeko Nara[1], Kotone Ohtaki[1], Rintaro Shigemori[1], Shinya Sugimoto[1,2,3], Yuki Kinjo[1,2] ([1]Dept. Bacteriol., Jikei Univ. Sch. Med., [2]Jikei Center for Biofilm Sci. Technol., Jikei Univ. Sch. Med., [3]Lab. Amyloid Regulation, Jikei Univ. Sch. Med.)

P1-076/DP2-20-11
Screening for lethal elements in the GrpE gene deletion in the genome of *E. coli*
○Kotone Otaki[1], Moeko Nara[1], Rintaro Shigemori[1], Canon Fujita[1], Shinya Sugimoto[1,2,3], Yuki Kinjo[1,2] ([1]Dept. Bacteriol., Jikei Univ. Sch. Med., [2]Jikei Center for Biofilm Sci. Technol., Jikei Univ. Sch. Med., [3]Lab. Amyloid Regulation, Jikei Univ. Sch. Med.)

P1-077/DP2-20-12
Elucidation of an essential cellular function of GrpE for survival of *E. coli*
○Rintaro Shigemori[1,2], Shinya Sugimoto[1,2,3], Yuki Kinjo[1,2] ([1]Dept. Bacteriol., Jikei Univ. Sch. Med., [2]Jikei Center for Biofilm Sci. Technol., Jikei Univ. Sch. Med., [3]Lab. Amyloid Reg., Jikei Univ. Sch. Med.)

4. Genetics / Genomics / Biotechnology -b. Horizontal gene transfer, mobile genetic element and evolution

P1-078/DP2-14-09
Acceptability of *Escherichia coli* for IncF plasmids encoding antimicrobial-resistance genes
○Kengo Hayashi[1], Masahiro Suzuki[1], Yohei Doi[1,2,3] ([1]Dept. Microbiol., Sch. Med., Fujita Health Univ., [2]Dept. Infect. Dis., Sch. Med., Fujita Health Univ., [3]Div. Infect. Dis., Sch. Med., Pittsburgh Univ.)

P1-079/DP2-14-10
DNA transfer by Pseudomonas aeruginosa using membrane vesicles of Pf4 prophage
○Haruki Okumura[1], Satoshi Takenawa[2], Soutaro Takano[2], Mizuki Kanno[3], Hiroyuki Futamata[1,3,4], Akihiro Okamoto[2], Yosuke Tashiro[1,3] ([1]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ, [2]NIMS. MANA., [3]Grad. Sch. Sci. Tech. Shizuoka Univ., [4]Res. Inst. Green Sci. Tech. Shizuoka Univ.)

P1-080/DP2-14-11
Horizontal gene transfer through membrane vesicles facilitated by changes in cellular membrane state
○Soichiro Eri[1], Mizuki Kanno[2], Hiroyuki Futamata[1,2,3], Yosuke Tashiro[1,2] ([1]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ., [2]Grad. Sch. Sci. Tech. Shizuoka Univ., [3]Res. Inst. Green. Sci. Tech. Shizuoka Univ.)

P1-081/DP2-14-12
Evolutionary process of Streptococcus dysgalactiae genome, with host switching
○Kazunori Murase, Ryosuke Tsuge, Atsuko Minowa-Nozawa, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sc. Med., Kyoto Univ)

P1-082/DP2-14-13
Predicting the bacteria acquired the plasmid by conjugative transfer based on nucleotide sequences
○Maho Tokuda[1], Shunta Tsuruga[2], So Maeda[3], Rin Yamazaki[3], Chiho Minakuchi[4], Hideaki Nojiri[4], Kazuhide Kimbara[1,2,3], Masaki Shintani[1,2,3,5] ([1]Grad. Sch. Shizuoka Univ., [2]Grad. Sch. Shizuoka Univ., [3]Fac. Eng. Shizuoka Univ., [4]Grad. Sch. Agric. Life Sci., UTokyo, [5]Shizuoka Univ. RIGST)

P1-083/DP2-14-14
Upstream genetic structures of AMR genes and its utilization for presuming AMR plasmids
○Itaru Hirai[1], Nobuyoshi Yagi[2] ([1]Lab. Microbiol., Sch. Health Sci., Fac. Med., Univ. of the Ryukyus, [2]Lab. Clin. Physiol., Sch. Health Sci., Fac. Med., Univ. of the Ryukyus)

P1-084/DP2-14-15
The Temporal Trends of Molecular Typing and Resistance Gene Dynamics in *Neisseria gonorrhoeae*
○Yuki Ohama[1], Ken Shimuta[1], Masatomo Morita[1], Ai Yoshida[1], Hideyuki Takahashi[1], Mitsuru Yasuda[2], Makoto Ohnishi[3], Yukihiro Akeda[1] ([1]Dept. Bact. 1., NIID, [2]SMU Med, Dept. Infection Control & Clinical Lab Med., [3]OPHE-IDRC)

4. Genetics / Genomics / Biotechnology -c. Gene regulation and transcriptome analysis

P1-085/DP2-14-16
Comprehensive analysis of small RNAs that control the expression of the virulence regulator in EHEC
○Naoki Sudo[1], Nobuhiko Okada[2], Jiro Mitobe[1] ([1]Dept. Infect. Dis., Sch. Med., Kyorin Univ., [2]Dept. Microbiol., Sch. Pharm., Kitasato Univ.)

P1-086/DP2-14-17
Appropriate transcription of *SPS1* of *Candida albicans* are necessary to normal growth
○Miyabi Sugano, Shinichi Iwaguchi (Dept. Biol. Sci, Fac. Sci., Nara Women's Univ.)

P1-087/DP2-14-18
Virulence factors of hemolytic streptococci SDSE strains prevalent in Japan
○Kohei Ogura[1,2], Koji Kinoshima[3], Hitomi Kitamura[3], Shigefumi Okamoto[2,3], Toru Akiyama[4] ([1]Div. Food Sci. Biotech., Grad. Sch. Agr., Kyoto Univ., [2]Inst. Front. Sci. Init., Kanazawa Univ., [3]Fac. Health Sci., Inst. Med. Pham. Health Sci., Kanazawa Univ., [4]Res. Insit., NCGM)

P1-088/DP2-14-19

New regulatory network via ArcAB and quorum sensing system of *Vibrio cholerae* biofilm formation

◯JantCres Caigoy[1], Hirofumi Nariya[2], Toshi Shimamoto[1], Zhiqun Yan[3,4], Tadashi Shimamoto[1] ([1]Grad. Sch. Int. Sci. Life, Hiroshima Univ., [2]Grad. Sch. Human Life Sci. Jumonji Univ., [3]Grad. Sch. Biosph. Sci. Hiroshima Univ., [4]Res. Cent. Maruzen Pharm. Co. Ltd)

P1-089/DP2-17-01

Regulation of motility by ArcB/ArcA two-component regulatory system in Vibrio alginolyticus

◯Moe Fujii[1], Kenji Yokota[2], Takehiko Mima[1] ([1]Microbiol., Dept. Med. Techn., Fac. Health Sci., Ehime Pref. Univ. Health Sci., [2]Okayama Univ. Grad. Sch. Health Sci.)

P1-090/DP2-17-02

Identification of pneumococcal modulons based on transcriptome datasets

Yujiro Hirose[1], ◯Toshiki Tabuchi[1], Eri Ikeda[1], Masayuki Ono[1], Masaya Yamaguchi[1,2,3,4], Shigetada Kawabata[1,3] ([1]Dept. Microbiol., Osaka Univ. Grad. Sch. Dent., [2]Bioinfo., Osaka Univ. Grad. Sch. Dent., [3]CiDER. Osaka Univ., [4]OUBIC, RIMD, Osaka Univ.)

4. Genetics / Genomics / Biotechnology -d. Genetic manipulation and analysis, biotechnology and synthetic biology

P1-091/DP2-17-10

Engineering a safety-enhanced synthetic phage capable of efficiently eliminating MRSA

◯Minh Huong Nguyen[1], Kotaro Kiga[1,2], Veeranarayanan Srivani[1], XinEe Tan[1], Jastin Edrian Cocuangco Revilleza[1], Shinya Watanabe[1], Kazuhiko Miyanaga[1], Yoshifumi Aiba[1], Teppei Sasahara[1], Longzhu Cui[1] ([1]Div. Bacteriology, Dept. Infection and Immunity, Jichi Medical Univ., [2]Research Center for Drug and Vaccine Development, National Inst. Infectious Diseases)

P1-092/DP2-17-11

Gene recombination system for Bacillus subtilis natto by conjugation

◯Wakana Suda[1], Mitsuhiro Itaya[2], Kei Asai[1] ([1]Dept. Biosci., Tokyo Univ. Agricul., [2]Dept. Materials Chem., Shinshu Univ.)

P1-093/DP2-17-12

Reconstitution of flagella biosynthesis of Segmented filamentous bacteria in *Bacillus subtilis*

◯Kei Asai[1], Kouki Tanaka[1], Yoshitoshi Ogura[2], Tomomi Kuwahara[3] ([1]Dept. Biosci., Tokyo Univ. Agricul., [2]Dept. Infect. Med., Kurume Univ. Sch. Med., [3]Dept. Microbiol., Sch. Med., Kagawa Univ.)

P1-094/DP2-17-13

Constructions and evaluations of *Campylobacter jejuni* phase-locked variant libraries

◯Shouji Yamamoto[1], Ken-ichi Lee[1], Akiko Kubomura[1], Sunao Iyoda[1], Yukihiro Akeda[1], Chihiro Aikawa[2], Masashi Okamura[2], Fuhito Hojo[3], Takako Osaki[4], Jiro Mitobe[4] ([1]Dept. Bac. I., Natl. Inst. Infect. Dis., [2]Dep. Vet. Med., Div. Vet. Sci., Obihiro Univ. Agr. Vet. Med., [3]Inst. Laboratory Animals, Graduate Sch. Med., Kyorin Univ., [4]Dept. Infect. Dis., Kyorin Univ. Sch. Med.)

P1-095/DP2-17-14

Zombie cells produced from the minimal synthetic bacterium JCVI-syn3B

◯Nanase Oda[1], Hana Kiyama[1], Makoto Miyata[1,2] ([1]Grad. Sch. Sci., Osaka Metropolitan Univ., [2]OCARINA, Osaka Metropolitan Univ.)

4. Genetics / Genomics / Biotechnology -e. Others

P1-096/DP2-17-15

Effect of *Escherichia coli* toxin-antitoxin systems on phage propagation

◯Ke Liu, Yuichi Otsuka (Grad. Sch. Science and Engineering, Saitama Univ.)

P1-097/DP2-17-16

Activation of the AbpA-AbpB phage defense system in *Escherichia coli*

◯Saya Takita, Takaomi Sasaki, Yunosuke Shintani, Yuichi Otsuka (Grad. Sch. Science and Engineering, Saitama Univ.)

5. Pathogenicity -a. Adhesins and colonization factors

P1-098/DP1-04-06

Biofilm formation of *A. acitnomycetemcomitans* associates with genes expression regulated by Hfq

◯Yuichi Oogai, Airi Matsumoto, Masanobu Nakata (Dept. Oral-Microbiol., Sch. Med. and Dent., Kagoshima Univ.)

P1-099/DP1-04-07

Identification of *Clostridium perfringens* FbpA binding site to dermatopontin

◯Nozomu Matsunaga, Akiba Endo, Yasuo Hitsumoto, Seiichi Katayama (Dept. Life Sci., Fac. Sci., Okayama Univ. Sci.)

P1-100/DP1-04-08

Colocalization of GAPDH and autolysin on the *Clostridium perfringens* cell surface

◯Riyo Aono[1,2], Nozomu Matsunaga[1], Yasuo Hitsumoto[1], Seiichi Katayama[1] ([1]Dept. Life Sci., Fac. Sci., Okayama Univ. of Sci., [2]Dept. Med. Tech., Kagawa Pref. Univ. of Health Sci.)

P1-101/DP1-04-09
ETEC colonization factor CS6 binds to β-actin and myosin-9 on epithelial cells
◯Alafate Ayibieke, Takaki Nishi, Takashi Hamabata (Dept. Infect. Dis., RI., NCGM)

P1-102/DP1-04-10
Clarification of the colonization mechanism of vaginal *Lactobacillus* on the vaginal Mucosa
◯Kirika Yoshioka, Masahiro Ito, Riho Tabata, Tsuyoshi Miki, Takeshi Haneda, Nobuhiko Okada (Dept. Microbiol., Sch. Pha., Kitasato Univ.)

5. Pathogenicity -b. Toxins, effectors and physically active substances

P1-103/DP1-04-11
The role of lipoprotein signal peptidase in the innate immune stimulatory activity of pneumococci
◯Hisanori Domon[1,2], Satoru Hirayama[1], Toshihito Isono[1], Rui Saito[1], Katsunori Yanagihara[3], Yutaka Terao[1,2] ([1]Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch. Med. Dent. Sci., [2]Cent. for Adv. Oral Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci., [3]Dept. Lab. Med., Nagasaki Univ. Grad. Sch. Biomed. Sci.)

P1-104/DP1-04-12
Alteration of gene expression in macrophages by D-amino acids from *Mycobacterium avium* complex
◯Yutaka Tatano[1], Tatsuo Munakata[1], Madoka Sawai[1], Hideki Yagi[2], Chiaki Sano[3], Haruaki Tomioka[4] ([1]Dept. Pharm. Sci., Sch. Pharm. Fukuoka., IUHW., [2]Dept. Pharm. Sci., Sch. Pharm., IUHW, [3]Dept. Community. Med. Mgt., Fac. Med., Shimane Univ., [4]Fac. Med., Shimane Univ.)

P1-105/DP1-04-13
Investigation of LCV-mitochondria communication machinery through Rab32 function
◯Hiromu Oide, Kohei Arasaki (Dept. Mol. Cell Biol., Sch. Life Sci., Tokyo Univ. Pharm and Life Sci.)

P1-106
***Legionella pneumophila*-utilizes Rab33B function through the multiple bacterial proteins**
◯Kohei Arasaki[1], Honoka Matsuo[1], Tomoko Kubori[2], Hiroki Nagai[2,3] ([1]Sch. Life Sci., Tokyo Univ. Pharm. Life Sci., [2]Dept. Microbiol., Grad. Sch. Med., Gifu Univ., [3]COMIT, Gifu Univ.)

P1-107/DP1-04-15
The analysis of C-terminal side domain of MARTX toxin produced by *Vibrio vulnificus*
◯Nene Kurata[1], Shoko Takeuchi[1], Takahiro Tsuchiya[1,2], Katsushiro Miyamoto[1], Jun Komano[1], Hiroshi Tsujibo[1] ([1]Dept. Microbiol. Infect. Cont., Osaka Med. Pharm. Univ., [2]Ctr. Advance. Pharm. Educ., Osaka Med. Pharm. Univ.)

P1-108/DP1-10-01
The analysis of N-terminal side domain of MARTX toxin produced by *Vibrio vulnificus*
◯Mai Sasaki[1], Shoko Takeuchi[1], Takahiro Tsuchiya[1,2], Katsushiro Miyamoto[1], Jun Komano[1], Hiroshi Tsujibo[1] ([1]Dept. Microbiol. Infect. Cont., Osaka Med. Pharm. Univ., [2]Ctr. Advance. Pharm. Educ., Osaka Med. Pharm. Univ.)

P1-109/DP1-10-02
The analysis of functional domain of MARTX toxin produced by *Vibrio vulnificus*
◯Yurina Noso[1], Hina Sugimura[1], Takahiro Tsuchiya[1,2], Katsushiro Miyamoto[1], Jun Komano[1], Hiroshi Tsujibo[1] ([1]Dept. Microbiol. Infect. Cont., Osaka Med. Pharm. Univ., [2]Ctr. Advance. Pharm. Educ., Osaka Med. Pharm. Univ.)

P1-110/DP1-10-03
Negative transcriptional regulator of *V. parahaemolyticus* type III secretion system 2
◯Sarunporn Tandhavanant[1,2], Hiroyuki Terashima[1], Dhira Saraswati Anggramukti[3], Hirotaka Hiyoshi[1], Narisara Chantratita[2], Tetsuya Iida[3], Shigeaki Matsuda[3], Toshio Kodama[1] ([1]Dept. Bacteriology, Inst. Tropical Medicine, Nagasaki Univ., [2]Dept. Microbiology and Immunology, Fac. Tropical Medicine, Mahidol Univ., [3]Dept. Bacterial Infections, Research Inst. Microbial Diseases, Osaka Univ.)

P1-111/DP1-10-04
The influence of PLC-mediated intracellular calcium influx in periodontitis during *Pg* infection
◯Masaaki Nakayama[1,2], Mariko Naito[3], Koji Nakayama[3], Naoya Ohara[1,2] ([1]Dept. Oral Microbiol., Okayama Univ. Fac. Med. Dent. Pharm. Sci., [2]ARCOCS, Okayama Univ. Dent. Sch., [3]Dept. Microbiol. Oral Infect., Nagasaki Univ. Grad. Sch. Biomed. Sci.)

P1-112/DP1-10-05
Gingipain from Porphyromonas gingivalis promotes inflammation in hunan microglia cells
◯Mika Fujii[1], Yutaka Yamazaki[1], Akira Hasebe[2], Ji-Won Lee[2] ([1]Gerodontology, Dept. Oral Health Science, Fac. Dental Medicine, Hokkaido Univ., [2]Microbiology, Dept. Oral Pathobiological Science, Grad. Sch. Dental Medicine, Hokkaido Univ.)

P1-114/DP1-10-07
Mechanism of host-cellular response to streptolysin S produced by *Streptococcus anginosus*
◯Yugo Yamamori[1], Hideaki Nagamune[1,2], Toshifumi Tomoyasu[1,2], Atsushi Tabata[1,2] ([1]Div. Bioresour. Sci., Grad. Sch. Sci. & Tech. for Innov., Tokushima Univ., [2]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ.)

5. Pathogenicity
-c. Cell invasion and intracellular parsitism

P1-115/DP2-16-03
Functional analysis of Atg8 paralogs in pneumococci-induced hierarchical autophagy

◯Chisato Sakuma[1,2], Michinaga Ogawa[1], Sayaka Shizukuishi[1], Yukihiro Akeda[1] ([1]Bacteriol. I, Nat. Inst. Infect. Dis, [2]Nat. Inst. Agrobiol. Sci, NARO)

P1-116/DP2-16-04
Search for new target molecules used by Chlamydia trachomatis by screening approved drug libraries

◯Saicheng Zhang, Ruiyu Li, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci. Hokkaido Univ.)

5. Pathogenicity
-d. Immune escape and proliferation in hosts

P1-117/DP2-16-08
Functional analysis of ribD involved in immune escape of Francisella tularensis

◯Kensuke Shibata[1,2,3], Keishi Takagi[1], Takashi Shimizu[4], Masahisa Watarai[4] ([1]Dept. Microbiol. Immunol., Sch. Med., Yamaguchi Univ., [2]Dept. Ocular Pathology and Imaging Science, Sch. Med., Kyushu Univ., [3]Dept. Mol. Immunol., Sch. Med., Research Inst. Microbial Diseases, Osaka Univ., [4]Joint Fac. Veterinary Medicine, Yamaguchi Univ.)

P1-118/DP2-16-09
Surface antigen conversion at the early stages of infection in relapsing fever borreliae

◯Tomohi Takeuchi[1], Kozue Sato[2], Hiroki Kawabata[2], Ai Takano[1] ([1]Dept. Vet. Med., Joint Fac. Vet. Med., Yamaguchi Univ., [2]Dept. Bac-I, NIID)

P1-119/DP2-16-10
Pathogenic *Leptospira* induces lipolysis in the murine adipocytes in vitro and in vivo

◯Ryo Ozuru, Michinobu Yoshimura, Shotaro Fujiki, Kazunari Ishii, Akinori Shimizu, Yusuke Kurihara, Shuntaro Kuwahara, Kenji Hiromatsu (Dept. Microbiol. Immunol., Sch. Med., Fukuoka Univ.)

P1-120/DP2-16-11
Co-infection of C. pneumoniae and P. gingivalis exacerbates aspiration pneumonia

◯Yoshikazu Naiki[1], Shogo Nakanishi[2], Ayaka Kato[3], Ryo Arai[1], Tomohiko Iwase[1], Masayuki Umemura[4], Akio Mitani[2], Yoshiaki Hasegawa[1] ([1]Dept. Microbiol. Sch. Dent. Aichi Gakuin Univ., [2]Dept. Periodont. Sch. Dent. Aichi Gakuin Univ., [3]Dept. Pediatric. Sch. Dent. Aichi Gakuin Univ., [4]Trop. Biosphere Res. Cent., Univ. Ryukyus)

P1-121/DP2-16-12
Inflammatory responses in the intestinal mucosa of mice infected with *Helicobacter mastomyrinus*

◯Riku Yasuki[1], Ayano Miyauchi[1], Takahiro Yoshizawa[2], Shin Shimada[2], Kazutaka Ohsawa[3], Ritsuko Masuyama[1], Hitoki Yamanaka[2] ([1]Grad. Sch. Gastron. Manag., Ritsumeikan Univ., [2]Res. Ctr. Adv. Sci. Technol., Shinshu Univ., [3]Grad. Sch. Biomed. Sci., Nagasaki Univ.)

5. Pathogenicity -e. Infection models

P1-122/DP2-16-13
Plasminogen-binding proteins of *Streptococcus pneumoniae* expressed during infection

◯Satoru Hirayama[1], Takumi Hiyoshi[1,2,3], Yoshihito Yasui[1,3], Hisanori Domon[1,2], Yutaka Terao[1,2] ([1]Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch. Med. Dent. Sci., [2]Cent. for Adv. Oral Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci., [3]Div. Periodontol., Niigata Univ. Grad. Sch. Med. Dent. Sci.)

P1-123/DP2-16-14
Pneumococcal protein SufC is released extracellularly by autolysis and binds to host plasminogen

◯Yoshihito Yasui[1,2], Satoru Hirayama[1], Toshihito Isono[1], Takumi Hiyoshi[1,2,3], Hisanori Domon[1,3], Yutaka Terao[1,3] ([1]Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch. Med. Dent. Sci., [2]Div. Periodontol., Niigata Univ. Grad. Sch. Med. Dent. Sci., [3]Cent. for Adv. Oral Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci.)

P1-124/DP2-16-15
Effects of nitrate-reducing bacteria from the gastric cancer patients in H. pylori co-infected mice

◯Marina Komatsubara[1], Yumiko Yamamoto[2], Jumpei Uchiyama[2], Osamu Matsushita[2], Kazuyoshi Gotoh[1], Akari Watanabe[3], Kenji Yokota[1] ([1]Grad. Sch. Health Science, Okayama Univ., [2]Dept. Path. Bacteriol., Grad. Sch. Med. Dent. Pharm., Okayama Univ., [3]Oral Health Care and Rehabilitation, Inst. Biomed. Sci. Tokushima Univ.)

P1-125/DP2-16-16
Analysis of Vi capsular polysaccharide on an alternative *Salmonella* Typhi mouse infection model

◯T. Hoan Pham[1,2], Hirotaka Hiyoshi[2], Toshio Kodama[2] ([1]Grad. Sch. Biomedical Sciences, Nagasaki Univ., [2]Dept. Bacteriology, Inst. Tropical Medicine, Nagasaki Univ.)

P1-126/DP2-19-01
Catheter-associated biofilm infection of non-tuberculosis mycobacteria in mice

◯Kentaro Yamamoto[1], Yusuke Tsujimura[1], Shota Torigoe[1,2], Manabu Ato[1] ([1]Dept. Mycobacteriol., Lepr. Res. Ctr., NIID, [2]Mgmt. Dept. Biosafety, Lab. Anim., and Pathog. Bank, NIID)

5. Pathogenicity -f. Others

P1-127/DP2-19-12
Hog1-mediated stress tolerance in the pathogenic fungus *Trichosporon asahii*
◯Yasuhiko Matsumoto, Yu Sugiyama, Tae Nagamachi, Asami Yoshikawa, Takashi Sugita (Dept. Microbiol., Meiji Pharm Univ.)

P1-128/DP2-19-13
Mislocalization of the mechanosensor Piezo during leptospiral infection of epithelial cells
◯Isabel Sebastian, Tetsu Yamashiro, Claudia Toma (Dept. Bacteriol., Grad. Sch. Med., Univ. of the Ryukyus)

P1-129/DP2-19-14
The investigation of racemase involved in D-amino acid production by *Metamycoplasma hominis*
◯Takeshi Yamamoto[1], Miki Okuno[1], Yuichi Tsuchiya[2], Yuki Hoshiko[1], Nanae Yamamoto[2], Yumi Imai[1], Yoshitoshi Ogura[1] ([1]Dept. Infect. Med., Sch. Med., Kurume Univ., [2]Dept. Pharmacy., Kyushu Univ. Hosp.)

P1-130/DP2-19-15
Analysis of host infection-related genes of bacteriophages encoding botulinum toxin types C and D
◯Yoshihiko Sakaguchi[1], Akira Take[2], Kazuyoshi Gotoh[3], Yumiko Yamamoto[3], Tomoko Kohda[4], Masafumi Mukamoto[4], Masaya Takehara[1], Tetsuya Hayashi[5], Keiji Oguma[3], Masahiro Nagahama[1] ([1]Facul. Pharm. Sci., Tokushima Bunri Univ., [2]Kitasato Univ. Sch. Med., [3]Dept. Med., Lab. Sci., Grad. Sch. Heal. Sci., Okayama Univ., [4]Grad. Sch. Vet. Sci., Osaka Metropolitan Univ., [5]Facul. Med. Sci., Kyushu Univ.)

P1-131/DP2-19-16
Streptococcus pneumonia infection induced kidney specific depletion of sulfur metabolites in mice
Rahman Azizur, Tianli Zhang, Hiroyasu Tsutsuki, Touya Toyomoto, ◯Tomohiro Sawa (Dept. Microbiol., Grad. Sch. Med., Kumamoto Univ.)

6. Host defense -a. Innate immunity

P1-132/DP1-05-06
Tannerella forsythia induces inflammasome activation by triggering both NLRP3 and Caspase-4
◯Chenwei Hsu, Tokuju Okano, Toshihiko Suzuki (Dept. Bact. Pathogenesis, TMDU)

P1-133/DP1-05-07
Two sub-families of NF-κB are activated in macrophages infected with *M. bovis* BCG
◯Akari Shinohara[1], Yasuhiko Horiguchi[2], Mayuko Osada-Oka[3] ([1]Food Hyg. Health., Agric. Food. Sci., Kyoto Pref. Univ., [2]Dept. Mol. Bact., RIMD, Osaka Univ., [3]Food Hyg. Env. Health., Grad. Sch. Life Env. Sci., Kyoto Pref. Univ.)

P1-134/DP1-05-08
Selection of a lactic acid bacterium that produces membrane vesicles under aerobic conditions
◯Hinako Inagaki[1], Mizuki Kanno[2], Hiroyuki Futamata[1,2,3], Yosuke Tashiro[1,2] ([1]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ, [2]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ., [3]Res. Inst. Green. Sci. Tech. Shizuoka Univ.)

P1-135/DP1-05-09
Modification of *E. coli* lipidA using palmitoyltransferase genes cloned in low-copy number plasmids
◯Yuki Nonaka, Sho Noguchi, Eri Tanaka, Sakura Onoue, Kazuyoshi Kawahara (Dept. Biosci., Col. Sci. Eng., Kanto Gakuin Univ.)

P1-136/DP1-05-10
Induction of antibody production by antigen proteins encapsulated in E. coli outer membrane vesicles
◯Ryunosuke Tominaga[1,2], Kimihiro Abe[1], Tomoyo Nakamura[2,3], Tomohiko Nishino[2,3], Takehiro Yamaguchi[1], Yukihiro Akeda[1], Ryoma Nakao[1] ([1]Dept. Bacteriol. I, Natl. Inst. Infect. Dis., [2]Grad. Sch. Bionics., Tokyo Univ. Technol., [3]Sch. Biosci. Biotechnol., Tokyo Univ. Technol.)

P1-137/DP1-05-11
Induction of Immune Priming in the silkworm, Bombyx mori, by chitin-derived oligosaccharide
◯Kazuhiro Mikami[1], Fumiaki Tabuchi[2], Masaki Ishii[3], Atsushi Miyashita[2] ([1]Dept. Med. Tech., Grad. Sch. Clinical Lab Sci., Teikyo Univ., [2]Lab. Antifungal Immunobiol., Inst. Med. Mycol., Teikyo Univ., [3]Lab. Mol. Cell Biol., Sch. Pharm., Musashino Univ.)

P1-138/DP1-05-12
Search for essential oils that confer infection resistance through the innate immune system
◯Naho Maruyama[1,2], Atsushi Miyashita[1] ([1]Teikyo Univ. Inst. Medical Mycology, [2]Dept. Health and Dietetics, Teikyo Heisei Univ.)

6. Host defense -b. Acquired immunity, vaccines and prevention and control of infections

P1-139/DP1-05-13
Delivering of antibodies into neuron by chimeric-toxin: a follow-up study in rodent models
◯Shin-Ichiro Miyashita, Akane Kanazawa, Rintaro Ohno, Yoshimasa Sagane (Dept. Food Aroma Cosme. Chem., Fac. Bio-ind., Tokyo NODAI)

P1-140/DP1-05-14
***Salmonella* eliminating mechanism introduced by vaccination**
◯Momoko Nakayama[1], Masahiro Eguchi[1], Yohsuke Ogawa[2] ([1]National Inst. Animal Health, NARO, [2]National Inst. Animal Health, NARO)

P1-141/DP1-05-15
Single cell RNA sequencing of necrotic granulomas in active tuberculosis mouse model
◯Shintaro Seto, Minako Hijikata, Naoto Keicho (Dept. Pathophysiol. Host Defense, RIT)

P1-142/DP1-05-16
Impact of lactoferrin on the interaction between vaginal *Lactobacillus crispatus* and vaginal mucosa
◯Masahiro Ito, Riho Tabata, Tsuyoshi Miki, Takeshi Haneda, Nobuhiko Okada (Dept. Microbiol., Sch. Pha., Kitasato Univ.)

P1-143/DP1-05-17
A standardized evaluation method for bacterial UV sensitivity using light-emitting diodes
◯Kai Ishida[1], Yushi Onoda[1,3], Yasuko Ishikawa[1], Toshihiko Aizawa[3], Shigeharu Yamauchi[3], Yasuo Fujikawa[3], Tomotake Tanaka[3], Takashi Uebanso[1,2], Kazuaki Mawatari[1,2], Akira Takahashi[1,2] ([1]Dept. Microbiol. Cont., Inst. Biomed Sci., Tokushima Univ., [2]Dept. Prev Environ Nutr., Inst. Biomed Sci., Tokushima Univ., [3]Nichia Corp.)

P1-144/DP1-11-01
Fungal UV sensitivity is characteristically wavelength dependent due to melanin accumulation
◯Yushi Onoda[1,3], Kai Ishida[1], Miharu Nagahashi[1,2], Michiyo Yamashita[1,2], Toshihiko Aizawa[3], Shigeharu Yamauchi[3], Yasuo Fujikawa[3], Tomotake Tanaka[3], Kazuaki Mawatari[1,2], Akira Takahashi[1,2] ([1]Dept. Microbiol Cont., Inst. Biomed Sci., Tokushima Univ., [2]Dept. Prev Environ Nutr., Inst. Biomed Sci., Tokushima Univ., [3]Nichia Corp.)

P1-145/DP1-11-02
Host immunomodulation using membrane vesicles derived from Clostridioides difficile
◯Yotaro Isamu[1], Mayu Okuda[1], Nozomu Obana[2,4], Nobuhiko Nomura[3,4] ([1]Sch. Sci. Tech., Life Ear. Sci, Univ. Tsukuba, [2]TMRC, Fac. Med., Univ. Tsukuba, [3]Fac. Life Environ., Sci. Univ. Tsukuba, [4]MiCS, Univ. Tsukuba)

P1-146/DP1-11-03
Designing New-Age Peptide Vaccines Using Bacteriophages
◯Srivani Veeranarayanan, Takashi Sugano, Liu Yi, Myat Thu, Kanate Thitiananpakorn, Yoshifumi Aiba, XinEe Tan, Kazuhiko Miyanaga, Shinya Watanabe, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

P1-147/DP1-11-04
Phage Capsid Vaccines for *Mycobacterium tuberculosis* (*Mtb*): Purification & Concentration Strategies
◯Myat Thu, Srivani Veeranarayanan, Kanate Thitiananpakorn, Yoshifumi Aiba, XinEe Tan, Kazuhiko Miyanaga, Shinya Watanabe, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P1-148/DP1-11-05
Nasal *Staphylococcus aureus* membrane vesicles induces mucosal IgA responses without adjuvant
◯Tomomi Hashizume-Takizawa, Masanori Saito, Noriko Shinozaki-Kuwahara, Ryoki Kobayashi, Hidenobu Senpuku (Dept. Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matsudo)

6. Host defense -c. Others

P1-149/DP1-11-14
Identification of the intestinal bacteria that protect against Clostridium botulinum infection
◯Nobuhide Kobayashi[1], Hiroki Toriumi[2], Seiga Komiyama[2], Koji Hase[2], Yukako Fujinaga[1] ([1]Dept. Bacteriol., Grad. Sch. Med., Kanazawa Univ., [2]Divi. Biochem., Fac. Pharm., Keio Univ.)

P1-150/DP1-11-15
Neutralization mechanism of human monoclonal antibodies against type B botulinum neurotoxin
◯Takuhiro Matsumura, Mayu Kitamura, Sho Amatsu, Aki Yamaguchi, Nobuhide Kobayashi, Yukako Fujinaga (Dept. Bacteriol., Sch. Med. Sci., Kanazawa Univ.)

P1-151/DP1-11-16
RabGAP1L regulates exocytic and endocytic trafficking of the invading Group A Streptococcus
◯Atsuko Nozawa, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

P1-152/DP1-11-17
Analysis of OPN fragments reflecting the pathology in microbiological infection
◯Takashi Matsuba[1], Yui Uehara[1], Kana Sukizaki[1], Toshio Hattori[2] ([1]Animal Pharm. Sc., Sch. Pharm., Univ. Kyushu Med. Sci., [2]Inst. Health Welf., Kibi Int. Univ)

7. Antimicrobial agents and resistance -a. Antimicrobial agents

P1-153/DP1-06-14
Isolation and Characterization of Broad-Host-Range Prophages Against MRSA
◯Tergel Nayanjin, XinEe Tan, Anujin Batbold, Shinya Watanabe, Yoshifumi Aiba, Kazuhiko Miyanaga, Teppei Sasahara, Srivani Veeranarayanan, Kanate Thitiananpakorn, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P1-154/DP1-06-15
Regulation of Staphylococcus aureus growth by Pseudomonas aeruginosa extracellular vesicles
◯Phawinee Subsomwong[1], Takahito Ishiai[1], Kouji Narita[2], Akio Nakane[3,4], Krisana Asano[1,3] ([1]Dept. Microbiol. Immunol., Hirosaki Univ. Grad. Sch. Med., [2]Inst. Anim. Exp., Hirosaki Univ. Grad. Sch. Med., [3]Dept. Biopolym. Health Sci., Hirosaki Univ. Grad. Sch. Med., [4]Hirosaki Univ. Health Welf.)

P1-155/DP1-06-16
Antimicrobial Activity of Bahia Propolis and its Fractionation Effects on Oral Bacteria
◯Hiroki Takigawa[1], Chiho Mashimo[1], Shiho Ikegami[2], Ayanori Yamaki[2], Hugo Maruyama[1], Takayuki Nambu[1], Toshinori Okinaga[1] ([1]Dept. Bact., Sch. Dent., Osaka Dent Univ., [2]Yamada Bee Company Health Science Labo.)

P1-156/DP1-06-17
Antimycobacterial activities of tanshinones and speculations on their mechanism of action
◯Shigetarou Mori[1], Toshiki Tamura[2], Yumi Maeda[2], Yumiko Tsukamoto[2], Manabu Ato[2], Tsuyoshi Kenri[1] ([1]Dept. Bacteriology II, NIID, [2]Dept. Mycobacteriology, LRC, NIID)

P1-157/DP1-12-01
Dermatophyte Cyp51 isozyme selectivity of azole antifungal agents
◯Masaki Ishii[1], Tsuyoshi Yamada[2], Shinya Ohata[1] ([1]Research Inst. Pharmaceutical Sciences, Fac. Pharmacy, Musashino Univ., [2]Inst. Med. Mycol., Teikyo Univ.)

P1-158/DP1-12-02
Optimized synthesis of CRISPR-Cas13a antimicrobial capsid against MRSA
◯Yuzuki Shimamori[1], XinEe Tan[1], Feng-Yu Li[1], Yutaro Nishikawa[1,2], Batbold Anujin[1], Nayanjin Tergel[1], Kotaro Kiga[1,3], Shinya Watanabe[1], Takayuki Shimojyo[2], Longzhu Cui[1] ([1]Div. Bacteriology, Dept. Inf. & Imm., Sch. Med., JMU., [2]EIKEN CHEMICAL CO.,LTD., [3]RCDVD, NIID)

P1-159/DP1-12-03
Development of chelator based novel MBL inhibitors to combat carbapenem resistance bacteria
◯Touya Toyomoto, Tianli Zhang, Ayaka Uegama, Hiroyasu Tsutsuki, Tomohiro Sawa (Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ)

P1-160/DP1-12-04
Functional impact by linker region of a staphylococcal endolysin
Sosuke Munetomo[1], ◯Jumpei Uchiyama[2], Iyo Uchiyama[2], Wanganuttara Thamonwan[2], Toshihiro Tsukui[3], Hideharu Hagiya[4], Yumiko Yamamoto[2], Hideyuki Kanda[1], Osamu Matsushita[2] ([1]Dept. Pub. Heal., Grad. Sch. Med. Dent. Pharm., Okayama Univ., [2]Dept. Bacteriol., Grad. Sch. Med. Dent. Pharm., Okayama Univ., [3]Nippon Zenyaku Kogyo Co., Ltd., [4]Dept. Infect. Dis., Okayama Univ. Hosp.)

P1-161/DP1-12-05
Antibacterial activity screening of Thai medicinal plant extracts using resazurin microtiter assay
◯Nitchatorn Sungsirin[1,2], Tanit Boonsiri[2], Saengthip Ngoenprong[3], Faesah Ayohsae[3], Oraya Dokkham[3], Siriwan Sriuan[3], Busaba Matrakool[3], Tassanee Saovana[3], Sudaluck Thunyaharn[3] ([1]Dept. Microbiology, Fac. Medicine, Shimane Univ., [2]Dept. Microbiology, Phramongkutklao College of Medicine, [3]Fac. Allied Health Sciences, Nakhonratchasima College)

P1-162/DP1-12-06
Development of antimicrobial peptide foldamers as therapeutics for multi-drug resistant bacteria
◯Takashi Misawa[1], Takahito Ito[1,2], Megumi Kurashima[1], Seiji Yamasaki[3], Kunihiko Nishino[3], Yosuke Demizu[1,2] ([1]National Inst. Health Sciences, [2]Grad. Sch. Med. Life Sci., Yokohama City Univ., [3]SANKEN, Osaka Univ.)

P1-163/DP1-12-07
Approaches for S. mutans by co-treatment with antimicrobial peptides and antimicrobial agents
◯Ryosuke Nakamura, Michiyo Honda (Dept. Appl. Chem., Grad. Sch. Sci. Tech., Meiji Univ.)

P1-164/DP1-12-08
Establishing phagemid packaging system to generate antimicrobials against MDR Staphylococcus aureus
Feng-Yu Li[1], ◯XinEe Tan[1], Yuzuki Shimamori[1], Kotaro Kiga[1,2], Shinya Watanabe[1], Yoshifumi Aiba[1], Kazuhiko Miyanaga[1], Kanate Thitiananpakorn[1], Yutaro Nishikawa[1,3], Longzhu Cui[1] ([1]Dept. Infect. Immun., Sch. Med., Jichi Med. Univ., [2]Research Center for Drug and Vaccine Development, National Inst. Infectious Diseases, [3]EIKEN CHEMICAL CO.,LTD.)

P1-165/DP1-12-09
Antifungal activity of bacteria isolated using a novel medium containing plant-derived components
◯Fumiaki Tabuchi[1], Kazuhiro Mikami[2], Masaki Ishii[3], Atsushi Miyashita[1] ([1]Lab. Antifungal Immunobiol., Inst. Med. Mycol., Teikyo Univ., [2]Dept. Med. Tech., Grad. Sch. Clinical Lab. Sci., Teikyo Univ., [3]Lab. Mol. Cell Biol., Sch. Pharm., Musashino Univ.)

7. Antimicrobial agents and resistance -b. Antimicrobial resistance

P1-166/DP2-15-10
Investigation of phage therapy against multidrug-resistant Escherichia coli
◯Mana Tohyama[1], Haruka Ohashi[1], Tomohiro Nakamura[1,2], Jumpei Fujiki[1], Hidetomo Iwano[1] ([1]Dept. Biochemistry, Sch. Veterinary, Rakuno Gakuen Univ., [2]Reserach Center for Drug and Vaccine Development, National Inst. Infectious Diseases)

P1-167/DP2-15-11

Isolation and characterization of broad host range bacteriophages infecting *Acinetobacter baumannii*

○Maniruzzaman, Adeline Yeo SyinLian, Yoshifumi Aiba, Minh Huong Nguyen, Shinya Watanabe, Kazuhiko Miyanaga, XinEe Tan, Teppei Sasahara, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P1-168/DP2-15-12

Prevalence of extended-spectrum beta-lactamase-producing *Escherichia coli* in the Ijira River

○Tomoki Nakatsubo[1], Michiyo Sugiyama[2], Tetsuo Asai[1,2] ([1]Dept. Appl. Vet. Sci., Jnt. Grad. Sch. Vet. Sci., Gifu Univ., [2]Dept. Appl. Vet. Sci., Unit. Grad. Sch. Vet. Sci., Gifu Univ.)

P1-169/DP2-15-13

Roles of RND multidrug efflux pumps on drug resistance of Achromobacter xylosoxidans type strain

○Mizuki Sugano, Emiko Mizusawa, Ayami Mezaki, Go Kamoshida, Yuji Morita (Dept. Infection Control Science., Sch. Pharm. Sci., Meiji Pharmaceutical Univ.)

P1-170/DP2-15-14

Emergence of ciprofloxacin and penicillin resistant meningococcal isolates in Japan

○Hideyuki Takahashi[1], Masatomo Morita[1], Hajime Kamiya[2], Munehisa Fukusumi[3], Mitsuru Yasuda[4], Yuki Ohama[1], Ken Shimuta[1,2], Makoto Ohnishi[1], Ryoichi Saitoh[5], Yukihiro Akeda[1] ([1]Dept. Bacteriol 1, Nat. Inst. Infect. Dis., [2]Infect. Dis. Survei. Center, Nat. Inst. Infect. Dis., [3]Center Field Epi. Intel. Res. Pro. Develop., Nat. Inst. Infect. Dis., [4]Dept. Infect. Cont. Lob. Med., Sch. Med., Sapporo Univ., [5]Dept. Mol. Microbiol., Sch. Med. & Dent. Sci., Tokyo Med. & Dent. Univ.)

P1-171/DP2-15-15

Phenotypic and genetic characteristics of bla_{IMP-6} harbouring Enterobacteriaceae

○Koichi Yamaguchi[1,2], Ryuichi Nakano[1], Akiyo Nakano[1], Yuki Suzuki[1], Miho Ogawa[2], Ryuji Sakata[2], Hisakazu Yano[1] ([1]Dept. Microbiol. Infect. Dis., Nara Med. Univ., [2]Dept. Bacteriol., BML Inc.)

P1-172/DP2-15-16

Genomic insights into an Enterohaemorrhagic *Escherichia coli* O4:H12 co-carrying *mcr-5* and bla_{SHV-12}

○Christian Xedzro[1], Toshi Shimamoto[1], Liansheng Yu[2], Yo Sugawara[2], Motoyuki Sugai[2], Tadashi Shimamoto[1] ([1]Lab. Food Microbiol. Hyg., Grad. Sch. Integ. Sci. Life., Hiroshima Univ., [2]Antimicrob. Resist. Res. Cent., Nat. Inst. Infect. Dis.)

P1-173/DP2-15-17

Analysis of the antimicrobial resistance mechanism in Gram-positive mastitis-causing bacteria

○Kazumi Yokoo[1], Toshi Shimamoto[1], Naoki Suzuki[2], Tadashi Shimamoto[1] ([1]Dept. Microbiology for Food Safety., Sch. Integrated Sciences for Life., Hiroshima Univ., [2]Dept. Terrestrial Field Science., Sch. Integrated Sciences for Life, Hiroshima Univ.)

P1-174/DP2-18-01

Draft genome sequencing of the imipenem-intermediate resistant *Bacteroides thetaiotaomicron*

○Takatsugu Goto, Masahiro Hayashi, Kaori Tanaka (Div. Anaerobe Res., Inst. for Glyco-core Res., Gifu Univ.)

P1-175/DP2-18-02

Adduct formation between cysteine and streptomycin in bacteria

○Katsuhiko Ono[1], Takuro Niidome[2], Takaaki Akaike[3], Tomohiro Sawa[1] ([1]Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ., [2]Facul. Adv. Sci. Tech., Kumamoto Univ., [3]Dept. Envir. Health Sci. Mol. Toxicol., Grad. Sch. Med., Tohoku Univ.)

P1-176/DP2-18-03

Extracellular release of metallo-beta-lactamases from clinically isolated gram-negative bacteria

○Ayaka Uegama, Touya Toyomoto, Hiroyasu Tsutsuki, Tomohiro Sawa (Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ.)

P1-177/DP2-18-04

Characterization of Vancomycin-Resistant Enterococci (VRE) Isolated from Kure Medical Center

○Hidetomo Kobayashi[1], Takeshi Sudo[2], Norimitsu Shimada[2], Mika Shingai[2], Hiroe Yoshino[2], Ryuto Maeda[2], Masahiro Takada[2], Soshi Seike[1], Akihiro Sawa[3], Hiroyasu Yamanaka[1] ([1]Lab. Mol. Microbiol. Sci., Fac. Pharm. Sci., Hiroshima Int. Univ., [2]Nat. Hosp. Org. Kure Med. Cent. and Chugoku Cancer Cent., [3]Res. Cent. for Pharm. Health Care and Sci., Fac. Pharm. Sci., Hiroshima Int. Univ.)

P1-178/DP2-18-05

Analysis of the antimicrobial resistance mechanism of coliform bacteria causing mastitis

○Toshi Shimamoto[1], Naoki Suzuki[2], Tadashi Shimamoto[1] ([1]Dept. Microbiol. Food Safety, Grad. Sch. Integrated Sci. Life, Hiroshima Univ., [2]Dept. Terrestrial Field Sci., Grad. Sch. Integrated Sci. Life, Hiroshima Univ.)

P1-179/DP2-18-06

Genetic characteristics of drug-resistant *Escherichia coli* isolated from wild deer

○Akiyo Nakano[1], Ryuichi Nakano[1], Yuki Suzuki[1], Saori Horiuchi[1], Koichi Yamaguchi[1], Ryuji Sakata[2], Miho Ogawa[2], Hisakazu Yano[1] ([1]Dept. Microbiol. Infect. Dis., Nara Med. Univ., [2]Dept. Bacteriol., BML, Inc.)

P1-180/DP2-18-07
Analysis of disinfectant resistance mechanism via two-component system SarRS in *Serratia marcescens*
○Koshiro Hyakutome[1,2], Moyu Tanishige[1], Riho Yasuoka[1], Yuma Kondo[2], Daichi Morita[2], Wakano Ogawa[3], Takanori Kumagai[2], Teruo Kuroda[2] ([1]Sch. Pharm., Hiroshima Univ., [2]Dept. Microbiol. Med., Sch. Med. Sci., Hiroshima Univ., [3]Dept. Microbiol. & Bioche. Daiichi Univ. of Pharm.)

P1-181/DP2-18-08
AMR surveillance of human and food-derived *Escherichia coli* strains based on the one health approach
○Hiroto Shinomiya, Yukiko Asano, Shintarou Hirai, Yuka Fukuguchi, Yuka Otsuka (Ehime Pref. Inst. Pub. Health Environ. Sci.)

P1-182/DP2-18-09
Characteristics of drug-resistant gram-positive cocci nasal carriage in livestock and farmers
Ryusei Taniguchi[1], ○Ryuichi Nakano[1], Akiyo Nakano[1], Yuki Suzuki[1], Yasuo Ono[2], Hisakazu Yano[1] ([1]Dept. Microbiol. Infect. Dis., Nara. Med. Univ., [2]Teikyo Heisei. Univ.)

P1-183/DP2-18-10
Molecular characteristics of drug resistant *Escherichia coli* isolated from hospital sewage in Japan
○Yuki Suzuki[1], Ryuichi Nakano[1], Akiyo Nakano[1], Yasumitsu Nomura[1], Saori Horiuchi[1], Tomoko Asada[1], Koichi Yamaguchi[1], Kai Saito[2], Mako Watanabe[3], Hisakazu Yano[1] ([1]Dept. Microbiology and Infectious Diseases, Nara Medical Univ., [2]Jichi Medical University Saitama Medical Center, [3]Fukaya Red Cross Hospital)

P1-184/DP2-18-11
Viruses encode tRNA and harbor anti-retron to evade bacterial immunity
○Aa Haeruman Azam[1], Kotaro Chihara[1], Kohei Kondo[2], Tomohiro Nakamura[1], Shinjiro Ojima[1], Wenhan Nie[1], Azumi Tamura[1], Wakana Yamashita[1], Longzhu Cui[3], Kotaro Kiga[1,3] ([1]Res. Cent. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [2]AMR Res. Cent., Natl. Inst. Infect. Dis., [3]Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P1-185/DP2-18-12
Direct interaction of xenobiotic efflux components MmpL5 and MmpS5 in Mycobacterium tuberculosis
○Mikiko Kawabata[1], Kentaro Yamamoto[2], Hirotaka Tajima[3,4], Manabu Ato[2], Ikuro Kawagishi[1,3,4] ([1]Grad. Sch. Sci. Eng., Hosei Univ., [2]Dept. Mycobacteriol., Lepr. Res. Ctr., NIID, [3]Dept. Frontier Biosci., Hosei Univ., [4]Res. Cen. Micro-Nano Tech., Hosei Univ.)

P1-186/DP2-18-13
Genetic analysis of three carbapenemase-producing *Delftia tsuruhatensis* from hospital sewage
○Hiroyuki Fujikura[1,2,3], Yuki Suzuki[1], Ryuichi Nakano[1], Akiyo Nakano[1], Yasumitsu Nomura[1], Saori Horiuchi[1], Koichi Yamaguchi[1], Kei Kasahara[3], Hisakazu Yano[1] ([1]Dept. Microbiol. Infect. Dis., Nara Med. Univ., [2]Dept. Infect. Dis., Amagasaki Gen. Med. Ctr., [3]Dept. Infect. Dis., Nara Med. Univ.)

P1-187/DP2-18-14
Comparative analysis of AmpC/ESBL-producing and colistin-resistant Escherichia coli in chicken meat
○Tatsuya Nakayama[1], Natsuki Ohata[1], Takahiro Yamaguchi[2], Michio Jinnai[3], Yuko Kumeda[4], Atsushi Hase[5] ([1]Grad. Sch. Int. Sci. Life, Hiroshima Univ., [2]Dept. Microbio., Osaka Inst. Pub. Health, [3]Div. Microbiol., Kanagawa Pref. Inst. Pub. Health, [4]Res. Cent. Microorg. Cont., Osaka Met. Univ., [5]Fac. Contemp. Human Life Sci., Tezukayama Univ.)

P1-188/DP2-18-15
Search for novel antimicrobial resistance genes by analyzing genetic structure of integrons
○Yusuke Tsuda[1], Chihiro Norizuki[2], Yoshichika Arakawa[3] ([1]Div. Clinic. Labo., Kyoto Univ. Hosp., Kyoto Univ., [2]Dept. Med. Tech., Med. Sci., Shubun Univ., [3]Dept. Bacteriol., Med,. Fujita Health Univ.)

P1-189/DP2-18-16
Role of the MexAB-OprM and its regulators in aztreonam resistance of Pseudomonas aeruginosa
○Kota Hayashi[1], Ruri Nozima[1], Anne Ohnishi[1], Go Kamoshida[1], Yoshiaki Kawamura[2], Yuji Morita[1] ([1]Dept. Infection Control Science., Sch. Pharm. Meiji Pharmaceutical Univ., [2]Dept. Microbiol., Sch. Med., Aichi Gakuin Univ.)

7. Antimicrobial agents and resistance -c. Others

P1-190/DP2-18-17
Effects of dual therapy with betamethasone and josamycin in NC/Nga mouse model of atopic dermatitis
○Katsuhiko Matsui, Madoka Muranaka, Tomoka Yamaguchi, Manami Maeda (Dept. Clin. Immunol., Meiji Pharmaceut. Univ.)

P1-191/DP2-21-01
Molecular Analysis of Immunomodulatory Effects of Non-antimicrobial Erythromycin Derivatives
○Rui Saito[1,2], Hisanori Domon[1,3], Takumi Hiyoshi[1,3], Akari Ikeda[4,5], Tomoyasu Hirose[4,5], Toshiaki Sunazuka[4,5], Yutaka Terao[1,3] ([1]Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch., Med. Dent. Sci., [2]Div. Cariol. Oper. Dent. Endo., Niigata Univ. Grad. Sch. Med. Dent. Sci., [3]Cent. for Adv. Oral. Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci., [4]Omura Inst., Kitasato Univ., [5]Grad. Sch. Infect. Cont. Sci., Kitasato Univ.)

P1-192/DP2-21-02

Analysis of lytic enzyme CD33800 of *Clostridioides difficile*

◯Hiroshi Sekiya[1], Mizuki Takahashi[1], Rui Okazaki[1], Shigehiro Kamitori[2], Eiji Tamai[1] ([1]Dept., Infect. Disease., Pharma., Matsuyama Univ., [2]Res. Faci. Cent. Sci. & Tec. Facul. Med., Kagawa Univ.)

P1-193/DP2-21-03

Antimicrobial susceptibility survey and phylogenetic analysis of *Actinotignum* spp.

◯Junko Tomida, Ryo Kutsuna, Ryota Mori, Yoshiaki Kawamura (Dept. Microbiol., Sch. Pharm., Aichi Gakuin Univ.)

P1-194/DP2-21-04

Interaction between the tip of long tail fiber of PP01 phage and a porin of *Escherichia coli*

◯Haruka Terasaki, Yuichi Otsuka (Grad. Sch. Science and Engineering, Saitama Univ.)

P1-195/DP2-21-05

Isolation and characterization of lytic phages against colibactin-producing *Escherichia coli*

◯Yuya Hidaka[1], Kanate Thitiananpakorn[1], XinEe Tan[1], Yoshifumi Aiba[1], Kazuhiko Miyanaga[1], Teppei Sasahara[1,2], Shinya Watanabe[1], Longzhu Cui[1] ([1]Div. Bacteriol, Sch. Med., Jichi Med. Univ., [2]Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

8. Others

P1-196/DP1-04-16

A water-in-oil droplet-based method for detecting and isolating infectious bacteriophage particles

◯Miu Hoshino[1], Yuri Ota[2,3], Tetsushi Suyama[2], Yuji Morishita[3], Satoshi Tsuneda[4], Naohiro Noda[1,2,4] ([1]Dept. CBMS, Grad. Sch. Frontier Sci., Univ. Tokyo, [2]Biomed. Res. Inst., Natl. Inst. of Adv. Sci. & Tech. (AIST), [3]On-chip Biotechnologies Co., Ltd., [4]Dept. Adv. Sci. & Eng., Grad. Sch. Adv. Sci. & Eng., Waseda Univ.)

P1-197/DP2-21-14

Antimicrobial activity of bacterial membrane vesicles-coated silver nanoparticles

◯Wei Xu, Ryosuke Yoshii, Sayo Maruyama, Takuro Niidome (FAST, Kumamoto Univ.)

P1-198/DP2-19-17

Involvement of the fungal flora in the colonic microbiota of the colorectal cancer

◯Yodai Hayashi[1], Yoshinori Uchino[1], Yuichi Goto[1], Sayaka Yuda[1], Hiroshi Hijioka[1], Tsuyoshi Sugiura[2], Tatsuo Okui[1] ([1]Dept. Maxillofacial Diagnostic and Surgical Science, Field of Oral and Maxillofacial Rehabilitation, Kagoshima Univ., [2]Div. Oral and Maxillofacial Oncology and Surgical Sciences, Div. Oral and Maxillofacial Reconstructive Surgery, Tohoku Univ.)

7. Antimicrobial agents and resistance

P1-199

Physalins suppress the expression of quorum sensing in *Staphylococcus aureus*

Junpei Yamaguchi[1], ◯Akiko Takaya[1,2] ([1]Dep. Infect. Cont. Sci., Grad. Sch. Pharm. Sci., Chiba Univ., [2]MMRC, Chiba Univ.)

1. Taxonomy / Epidemiology /Infectious diseases -a. Phylogenetics, taxonomy and strain typing

P2-001/DP1-01-09

Prevalence of *Listeria monocytogenes* in retail foods in Japan

◯Yumiko Okada[1], Akiko Tomaru[1], Tomoko Nishida[1], Shiori Yamamoto[1,2], Yukako Shimojima[3] ([1]Div. Biomed. Food Res., Nat. Inst. Health Sci., [2]Dept. Nutr. Diet., Kamakura Women's Univ., [3]Dept. Food Life Sci., F. Food Nutr. Sci., Toyo Univ.)

P2-002/DP1-01-10

Differential angiogenic properties and phylogenetic characteristics of *Bartonella henselae* strains

Yuka Kondo[1], Masahiro Suzuki[1], Shingo Sato[2], Soichi Maruyama[2], Yohei Doi[1,3], ◯Kentaro Tsukamoto[4] ([1]Dept. Microbiol., Fujita Health Univ. Sch. Med., [2]Dept. Vet. Med., Coll. Bioresource Sci., Nihon Univ., [3]Dept. Infect. Dis., Fujita Health Univ. Sch. Med., [4]Dept. Bact. Zoonoses, RIMD, Osaka Univ.)

P2-003/DP1-01-11

Development of PCR-based serotyping method for *Mannheimia haemolytica*

◯Atsushi Iguchi[1], Miki Okuno[2], Yoshitoshi Ogura[2], Kaori Hoshinoo[3], Yuichi Ueno[3], Daisuke Takamatsu[3] ([1]Fac. Agr., Miyazaki Univ., [2]Dept. Infect. Med., Kurume Univ. Sch. Med., [3]Natl. Inst. Anim. Hlth., NARO)

P2-004/DP1-01-12

A novel *Filobacterium* sp. detected in deposited 16S rRNA metagenome data of rhesus macaque

◯Fumio Ike (RIKEN BRC)

P2-005/DP1-01-13

Comparison of Tn1549/5382 containing vanB gene among VRE strains from different sources

◯Takako Nakayama, Takashi Kikuchi, Yushi Hachisu, Naoshi Ando, Masaki Nakamura, Natsuki Ueda, Mitsuru Kishizawa (Div. Bact., Chiba Pref. Inst. Pub. Health)

P2-006/DP1-01-14
Phylogenetic analysis of drug-resistant *Escherichia coli* isolated from domestic meat and livestock
○Ryuji Kawahara[1], Takahiro Yamaguchi[1], Yuki Wakabayashi[1], Yuki Matsumoto[2], Daisuke Motooka[2], Shota Nakamura[2], Tatsuya Nakayama[3], Yoshimasa Yamamoto[4], Kentaro Kawatsu[1] ([1]Div. Microbiol., Osaka Inst. Pub. Health, [2]Dept. Infect. Metagenomics, RIMD, Osaka Univ., [3]Integ. Sci. Life, Hiroshima Univ., [4]Drug Discov. Med. Info. Sci., Gifu Univ.)

P2-007/DP1-01-15
Genetic diversity and binding ability of *Streptococcus mutans* collagen binding adhesin Cnm
○Hideo Yonezawa, Yuichiro Kikuchi, Eitoyo Kokubu, Kazuyuki Ishihara (Dept. Microbiol., Tokyo Dent. Col.)

P2-008/DP1-01-16
Development of multiplex PCR for virulence-associated genes in *Bacillus cereus sensu lato*
○Akira Okamoto (Sch. Health Sciences, Aichi Univ. Edu.)

1. Taxonomy / Epidemiology /Infectious diseases -b. Epidemiology and molecular epidemiology

P2-009/DP1-07-06
Comparative genomics of whole genome and Shiga toxin phage of EHEC from bovine and human
○Ken-ichi Lee[1], Sunao Iyoda[1], Hidemasa Izumiya[1], Takehiro Nazuka[2], Masahiro Kusumoto[3], Masato Akiba[4], Yo Sugawara[5], Motoyuki Sugai[5], Yukihiro Akeda[1] ([1]Dept. Bacteriol. 1, Natl. Inst. Infect. Dis., [2]Meat Hygiene Inspect., Saitama City, [3]Natl. Inst. Animal Health, NARO, [4]Vet. Bacteriol., Rakuno Univ., [5]AMR Center, Natl. Inst. Infect. Dis.)

P2-010/DP1-07-07
Epidemiological shifts in and impact of COVID-19 on streptococcal toxic shock syndrome
○Tadayoshi Ikebe[1], Takahiro Yamaguchi[2], Rumi Okuno[3], Hitoshi Otsuka[4], Akito Mizokoshi[5], Kaho Ikeda[5], Nanako Watanabe[5], Yoshimi Date[5], Yukihiro Akeda[1] ([1]Dept. Bacterol. I, NIID, [2]Div. Microbiol., Osaka Inst. Public Health, [3]Dept. Microbiol., Tokyo Metr. Inst. Pub. Health, [4]Dept. Pub. Health Sci., Yamaguchi Pref. Inst. Pub. Health & Env., [5]The Working Group for Beta-Hemolytic Streptococci in Japan)

P2-011/DP1-07-08
Characterization of *Clostridium tetani* detected from the soil in Kagoshima prefecture
○Tadasuke Ooka[1], Chie Shitada[2], Takatoshi Yamamoto[2], Chiyomi Sakamoto[2], Chihiro Horiba[3], Makoto Kuroda[3], Junichiro Nishi[1], Motohide Takahashi[2] ([1]Dept. Microbiol., Grad. Sch. Med. Dent. Sci., Kagoshima Univ., [2]Tox. Biol. Res. Lab., Kumamoto Heal. Sci. Univ., [3]Pathogen Genomics Center, NIID)

P2-012/DP1-07-09
Genetic analysis of coagulase-negative staphylococci colonizing healthy adults
○Mina Hirose[1], Meiji Soe Aung[2], Nobumichi Kobayashi[2] ([1]Dept. Ped. Dent., Div. Oral Growth and Development, Sch. Dent., Health Sciences Univ. Hokkaido, [2]Dept. Hygiene. Sch. Med. Sapporo Med. Univ.)

P2-013/DP1-07-02
Genomic characteristics and drug susceptibility of *Helicobacter suis* from humans, monkeys, and pigs
○Emiko Rimbara[1], Masato Suzuki[2], Sae Aoki[1], Hidenori Matsui[1], Keigo Shibayama[3], Tsuyoshi Kenri[1] ([1]Dept. Bacteriol. II, Nat. Inst. Infect. Dis., [2]Antimicrob. Resist. Res. Cent., Nat. Inst. Infect. Dis., [3]Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

P2-014/DP1-07-10
Characteristics of Staphylococcaceae in Retail Meat Products in Hokkaido: A One Health Perspective
○Noriko Urushibara[1], Meiji Soe Aung[1], Mitsuyo Kawaguchiya[1], Nobuhide Ohashi[1,2], Nobumichi Kobayashi[1] ([1]Dept. Hygiene, Sch. Med., Sapporo Med. Univ., [2]Dept. Oral Surgery, Sch. Med., Sapporo Med. Univ.)

P2-015/DP1-07-11
Survey of ESBL-producing *Escherichia coli* and MRSA from wastewater in Saitama, Japan
○Miyo Murai[1], Hiroki Murayama[1], Hikari Takino[1], Yo Sugawara[2], Liansheng Yu[2], Shizuo Kayama[2], Junzo Hisatsune[2], Kozue Kishii[1] ([1]Dept. Health Soci. Serv., Grad. Sch. Saitama Pref. Univ., [2]AMR-RC, NIID)

1. Taxonomy / Epidemiology /Infectious diseases -c. Isolation and characterization of clinical isolates

P2-016/DP1-07-16
Prevalence and characteristics of *Escherichia fergusonii* isolated from farm animals in Japan
○Anna Momoki[1], Yukino Tamamura-Andoh[1], Nobuo Arai[1], Taketoshi Iwata[1], Ayako Watanabe-Yanai[1], Masahiro Kusumoto[1,2] ([1]Natl. Inst. Anim. Health, NARO., [2]Grad. Sch. Vet. Sci., Osaka Metro. Univ.)

P2-017/DP1-07-12
Comparison of human- and bird-derived strains of Escherichia albertii in Hokkaido
○Rin Satoh[1], Masahiko Ito[2], Takahiro Kinebuchi[3], Yosie Sakurai[4], Tetsuya Ikeda[1] ([1]Div. Bacterial., Hokkaido Inst. Pablic Health, [2]Sapporo Clinical Laboratory Inc., [3]Furano Hosp., Hokkaido Institutional Society, [4]Natl. Inst. of Animal Industry., Hokkaido Research Organization)

P2-018/DP1-07-17

Genetic Characteristics of ESBL-producing *Escherichia coli* isolated from bloodstream infections

○Mayuko Tanaka[1], Tomoya Suda[1], Kohei Kondo[2], Aa Haeruman Azam[3], Minh Le Nhat[2], Ryu Yashiro[4], Yasunori Tanji[5], Kotaro Kiga[3], Takeaki Matsuda[1,5], Tomoko Hanawa[1] ([1]Dept. Gen. Med., Kyorin Univ. Sch. Med., [2]AMR Res. Cent., Natl. Inst. Infect. Dis., [3]Res. Cent. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [4]Leprosy Res. Cent., Natl. Inst. Infect. Dis., [5]Dept. Traum. Crit. Care Med., Kyorin Univ. Sch. Med.)

P2-019/DP1-07-18

Pathogenicity of the novel *Helicobacter* spp. infecting the stomach of dogs and cats in Japan

○Sae Aoki[1], Masato Suzuki[2], Hidenori Matsui[1], Shigetarou Mori[1], Keigo Shibayama[3], Tsuyoshi Kenri[1], Emiko Rimbara[1] ([1]Dept. Bacteriol. II, NIID, [2]Antimicrobial. Resist. Res. Cent., NIID, [3]Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

P2-020/DP1-07-19

Detection of M1UK from *emm1* type group A *Streptococcus pyogenes* isolated in Osaka

○Takahiro Yamaguchi[1,2], Masaki Anraku[1], Kaori Yamamoto[1], Takeshi Doi[1], Tetsuya Harada[1], Ryuji Kawahara[1], Tadayoshi Ikebe[2], Takao Kawai[1] ([1]Div. Microbiol., Osaka Inst. Public Health, [2]Dept. Bacteriol. I, Natl. Inst. Infect. Dis.)

1. Taxonomy / Epidemiology /Infectious diseases -d. Methods for detection, identification, and diagnosis

P2-021/DP2-13-07

Analysis of the foodborne outbreak of Clostridium perfringens in Toyama prefecture, 2023

○Kazuki Saito[1], Keiko Kimata[1], Junko Isobe[1], Jun-ichi Kanatani[1], Kaho Ikeda[1], Emi Maenishi[1], Takashi Takeuchi[2], Chiharu Matsuzaki[3], Kazunori Oishi[1] ([1]Dept. Bacteriol., Toyama Inst. Health, [2]Environmental Health Division in Toyama Prefecture, [3]Public Health Center of Imizu, Toyama Prefecture)

P2-022/DP2-13-08

Breath omics analysis for infectious diseases

○Seiryo Ogata[1], Tetsuro Matsunaga[1], Minkyung Jung[1], Masanobu Morita[1], Fan-Yan Wei[2], Hozumi Motohashi[3], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., [2]Dept. Modomics Biol. Med., IDAC, Tohoku Univ., [3]Dept. Gene Exp. Regul., IDAC, Tohoku Univ.)

P2-023/DP2-13-09

Mechanisms of excretion of bacterial-specific modified nucleosides in urine

○Ryosuke Yamamura[1], Yu Nagayoshi[1,2], Kayo Nishiguchi[1,2], Kazuhito Tomizawa[1] ([1]Dept. Mol. Physiol., Fac. Lif. Sci., Kumamoto Univ., [2]Dept. Nephrol., Fac. Lif. Sci., Kumamoto Univ.)

P2-024/DP2-13-10

Improvement of culture method for *Clostridioides difficile*

○Mitsutoshi Senoh, Tsuyoshi Kenri (Dept. Bacteriol. II, Natl. Inst. Infect. Dis.)

P2-025/DP2-13-11

Development of a novel *in vitro* detection method for botulinum neurotoxin

○Masahiro Yutani, Tsuyoshi Kenri, Mitsutoshi Senoh (Dept. Bacteriol. II, Natl. Inst. Infect. Dis.)

P2-026/DP2-13-12

Evaluation of VBNC-Helicobacter pylori by PMA-PCR

○Fuhito Hojo[1], Jiro Mitobe[2], Shigeru Kamiya[3], Takako Osaki[2] ([1]Inst. Lab. Animals, Grad. Sch. Med, Kyorin Univ., [2]Dept. Infect. Dis., Kyorin Univ. Sch. Med., [3]Miyarisan Pharmaceutical Co., Ltd.)

1. Taxonomy / Epidemiology /Infectious diseases -e. Others

P2-027/DP2-13-16

Comparative analysis of *Leptotrichia* sp. isolated from human oral cavity

○Noriko Shinozaki-Kuwahara[1], Masanori Saito[2], Tomomi Hashizume-Takizawa[2], Hidenobu Senpuku[2], Koichi Hiratsuka[1] ([1]Dept. Biochem. Mol. Biol., Nihon Univ. Sch. Dent. at Matsudo., [2]Dept. Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matsudo)

P2-028/DP2-13-17

Inhibition effect of oral moisturizing gel ingredients on the biofilm formation

○Setsuhi Sei[1], Takafumi Miyazaki[2], Yoshiaki Kamikawa[3], Hidenobu Senpuku[1] ([1]Dept. Microbiol. Immunol., Dent., Sch. at Matsudo, Nihon Univ., [2]Pikasshu, [3]Sch. Dent., Kagoshima Univ.)

P2-029/DP2-13-18

Prevalence of intestinal carriage of hemolytic streptococci in the nursing home residents

○Kaho Ikeda[1], Junko Isobe[1], Emi Maenishi[1], Keiko Kimata[1], Jun-ichi Kanatani[1], Kazuki Saito[1], Tadayoshi Ikebe[2], Yukihiro Akeda[2], Kazunori Oishi[1] ([1]Dept. Bacteriol., Toyama Inst. Health, [2]Dept. Bacteriol. 1, Natl. Inst. Infect. Dis.)

P2-030/DP2-13-19

***Bacillus cereus* foodborne outbreaks in Tokyo, 1977-2023**

○Chie Monma, Wakaba Okada, Natsumi Furuta, Chikako Asayama, Satomi Uehara, Hiroshi Koike, Maki Kanda, Hiromi Obata, Keiko Yokoyama, Kenji Sadamasu (Dept. Microbial., Tokyo Metropolitan Inst.)

2. Ecology -a. Ecology, symbiosis and environmental microbes

P2-031/DP1-03-03
The inhibition of Staphylococcus aureus by commensal bacterium via its metabolites
◯Akiko Tajima[1,2], Yuki Kinjo[1,2] ([1]Dept. Bacteriol. The Jikei Univ. Sch. Med., [2]Jikei Ctr. Biofilm Sci. & Tech.)

P2-032/DP1-03-04
Indoor Microbiome: Interactions with Occupants and Environmental Factors in Residential Settings
◯Jianjian Hou[1], Makiko Nakajima[2,3], So Fujiyoshi[1,2], Yukiko Nishiuchi[1], Daisuke Ogura[2,4], Fumito Maruyama[1,2] ([1]IDEC Inst., Hiroshima Univ., [2]CHOBE, Hiroshima Univ., [3]Fac. Engineer., Hiroshima Inst. Tech., [4]Grad. Sch. Engineer., Kyoto Univ.)

P2-033/DP1-03-05
Ingestion of *Campylobacter jejuni* by *Acanthamoeba polyphaga*
Mako Kitade[1], ◯Takaaki Shimohata[1,2] ([1]Marine-Bio, Fukui Prefectural Univ., [2]Dept. Prevent. Environ. Nutr., Inst. Biomed. Sci., Tokushima Univ. Grad. Sch.)

P2-034/DP1-03-06
Symbiotic bacteria break through narrow passage by flagellar wrapping
Aoba Yoshioka[1], Tetsuo Kan[2], Kazutaka Takeshita[3], Hirofumi Wada[4], Yoshitomo Kikuchi[5], ◯Daisuke Nakane[1] ([1]Dept. Eng. Sci., UEC, [2]Dept. Mech. Int. Sys. Eng., UEC, [3]Fac. Bioresour. Sci., Akita Pref. Univ., [4]Dept. Phys.. Ritsumeikan Univ., [5]Biopro. Res, Inst, AIST)

P2-035/DP1-03-07
Induction of antibiotic tolerance of Escherichia coli by microbial volatile organic compounds
◯Takehiko Kenzaka[1,2], Kaho Nishizawa[2], Natsumi Doi[2] ([1]Fac. Sci. Eng., Setsunan Univ., [2]Fac. Pharm., Osaka Ohtani Univ.)

P2-036/DP1-03-08
A challenge toward discover of symbiotic mechanism over Insects-Plants
◯Hiroyuki Morimura[1], Kazutaka Takeshita[2], Kota Ishigami[1,3], Yu Matsuura[4], Peter Mergaert[5], Yoshitomo Kikuchi[1,3] ([1]Bioprod. Res. Inst., AIST, [2]Dept. Biotech., Appl. Biol. Sci., Akita Pref. Univ., [3]Grad. Sch. Ag., Hokkaido Univ., [4]TBRC, Univ. Ryukyus, [5]I2BC, CNRS, Paris-Sacley Univ.)

2. Ecology -b. Microbiota

P2-037/DP1-09-02
Lactobacillus play an important role in maintaining a healthy vaginal environment
◯Shihoko Aizawa[1], Kazuhide Takada[1], Shingo Hayashida[2], Satoshi Hayakawa[1] ([1]Div. Microbiol., Dept. Pathol. and Midrobiol., Nihon Univ. Sch. Med., [2]Div. Pediatrics, Nihon Univ. Sch. Med.)

P2-038/DP1-09-03
Identification of symbiote candidates for Ileoanal pouch in ulcerative colitis in Japan
◯Aoi Son[1], Tamotsu Kato[2], Yoshiyuki Matsuo[3], Soutaro Hanawa[4], Yumiko Nakanishi[2], Hiroshi Ohno[2], Hideki Ogura[1], Satoshi Ishido[1], Hiroki Ikeuchi[5], Motoi Uchino[5] ([1]Dept. Microbiol., Sch. Med., Hyogo Med. Univ., [2]IMS, Riken, [3]Dept. Human Stress Response Science, Inst. Bionedical Science, Kansai Med. Univ., [4]Dept. Oral and Maxillofacial Surgery, Hyogo Med. Univ., [5]Dept. IBD Surgery, Hyogo Med. Univ.)

P2-039/DP1-09-04
Biofilm formation by membrane vesicles released from Streptococcus sobrinus
◯Hiroko Yoshida[1], Morito Hakamada[2], Shinichi Negishi[1], Hidenobu Senpuku[2] ([1]Dept. Orthodontics., Sch. Dent., Nihon Univ., [2]Dept. Microbiol. Immunol., Sch. Dent., Nihon Univ.)

P2-040/DP1-09-05
Isolation of colitis-suppressing bacteria from gut microbiota of rice bran-fed mice
◯Risako Oki[1], Kazuki Tanaka[2], Nobuhiko Nomura[3], Nozomu Obana[4], Shinji Fukuda[2,4,5] ([1]Biol. Resource Sci., Univ. Tsukuba, [2]Inst. Adv. Biosci., Keio Univ., [3]Fac. Life Environ. Sci., Univ. Tsukuba, [4]TMRC, Fac. Medicine, Univ. Tsukuba, [5]Metabologenomics, Inc.)

P2-041/DP1-09-06
Gene expression of gut bacterial polyamine metabolism based on salt excretion and blood pressure
◯Yasuo Ikagawa[1], Shigehiro Karashima[2], Ren Mizoguchi[3], Aoi Koshida[1], Hiromasa Tsujiguchi[4], Akinori Hara[4], Hiroyuki Nakamura[4], Shigefumi Okamoto[5] ([1]ILAS, Kanazawa Univ., [2]IFSI, Kanazawa Univ., [3]Dept. Health Prom. & Med. Fut., Kanazawa Univ., [4]Dept. Hygiene & Pub. Health, Grad. Sch. Adv. Prev. Med. Sci., Kanazawa Univ., [5]Div. Health Sci., Sch. Med., Osaka Univ.)

P2-042/DP1-09-07
Effect of ampicillin exposure in weaning period in diet-induced NASH model mice
Ryuji Ishikawa[1], Hikari Ohnishi[1], Mayuko Shimizu[2], Akiko Sakurai[1], ◯Keiko Kataoka[1] ([1]Dept. Microbiol. Gen. Anal., Sch. Med., Tokushima Univ., [2]Dept. Pathol. Lab. Med., Sch. Med., Tokushima Univ.)

P2-043/DP1-09-08

Identification of membrane vesicle-producing gut bacteria correlated with host aging

○Miku Matsushita[1], Kaoru Kikuchi[1], Masakatsu Nohara[2], Nozomu Obana[3,4], Nobuhiko Nomura[4,5] ([1]Sch. Sci. Tech., Life Ear. Sci, Univ. Tsukuba, [2]Fac. Vet., Okayama Univ. Science, [3]TMRC, Inst. Med., Univ. Tsukuba, [4]MiCS, Univ. Tsukuba, [5]Inst. Life Environ., Sci. Univ. Tsukuba)

2. Ecology -c. Growth and culture conditions

P2-044/DP1-09-11

Adaptive Laboratory Evolution of Minimal Genome Bacterium to Low Temperature

○Masaki Mizutani[1], Minoru Moriyama[1], Ryuichi Koga[1], Takema Fukatsu[1,2,3], Shigeyuki Kakizawa[1] ([1]Bioproduct. Res. Inst., AIST., [2]Dept. Bio. Sci., Univ. Tokyo, [3]Grad. Sch. Life. Environ. Sci., Univ. Tsukuba)

P2-045/DP1-09-12

Controlling the viability of bacteria on dry surfaces: the effectiveness of warmed toilet seats

○Kotoka Kuriki[1,2], Torahiko Okubo[1], Hiroyuki Yamaguchi[1] ([1]Fac. Health. Sci., Hokkaido Univ., [2]Fac. Med., Hokkaido Univ.)

P2-046/DP1-09-13

Changes of Sensitivity to antibiotics against Streptococcus mutans under simulated microgravity

○Chika Tokairin, Michiyo Honda (Dept. Appl. Chem., Grad. Sch. Sci. Tech., Meiji Univ.)

P2-047/DP1-09-14

Effects of *Campylobacter jejuni* infection in the VBNC state on the mouse intestinal tract

Mizuki Tsuchida[1], Akihiro Hirata[1], Yasuo Inoshima[1,2], ○Ayaka Okada[1,2] ([1]Dept. Vet. Med., Gifu Univ., [2]GeFAH., Gifu Univ.)

3. Physiology / Structural biology -a. Metabolism, biosynthesis and metabolome

P2-048/DP1-02-04

Exploring novel metabolism of modified nucleosides in bacteria

○Kayo Nishiguchi[1,2], Yu Nagayoshi[1,2], Ryosuke Yamamura[1,2], Kazuhito Tomizawa[1] ([1]Dept. Mol. Physiol., Fac. Life. Sci., Kumamoto Univ., [2]Dept. Nephrol., Fac. Life. Sci., Kumamoto Univ.)

P2-049/DP1-02-05

Generation and physiological functions of cyclo-octasulfur conserved from bacteria to mammals

○Tetsuro Matsunaga[1], Uladzimir Barayeu[1], Takayuki Shimizu[2], Masanobu Morita[1], Seiryo Ogata[1], Minkyung Jung[1], Shinji Masuda[3], Michito Yoshizawa[4], Hozumi Motohashi[5], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., [2]Fac. Div. Nat. Sci., Biol. Sci. Res. Group, Nara Women's Univ., [3]Sch. Life Sci. & Tech., Tokyo Tech, [4]Lab. Chem. Life Sci., Inst. Innov. Res., Tokyo Inst.Tech., [5]Dept. Med. Biochem., Tohoku Univ. Grad. Sch. Med.)

P2-050/DP1-02-06

Supersulfide activation and host defense through NADPH oxidase and NO synthase

○Masanobu Morita[1], Tsuyoshi Takata[1], Tetsuro Matsunaga[1], Tomoaki Ida[1], Minkyung Jung[1], Yukihiro Tsuchiya[2], Yasuo Watanabe[2], Hozumi Motohashi[3], Hideki Sumimoto[4], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., [2]Dept. Pharm., Showa Pharm. Univ., [3]Dept. Gene Exp. Reg., IDAC, Tohoku Univ., [4]Dept. Biochem., Kyushu Univ., Grad. Sch. Med. Sci.)

3. Physiology / Structural biology -b. Motility

P2-051/DP1-02-12

Investigation of cell motility mechanism of *Spiroplasma* using a minimal synthetic bacterium

○Hana Kiyama[1], Shigeyuki Kakizawa[2], Daichi Takahashi[1,3], Makoto Miyata[1,4] ([1]Grad. Sch. Sci., Osaka Metropolitan Univ., [2]Bioproduction Res. Inst., AIST, [3]Res. Inst. Interdisciplinary Sci., Okayama Univ., [4]OCARINA, Osaka Metropolitan Univ.)

P2-052/DP1-02-13

Sheet-like structure of bacterial actin MreBs driving helicity switching by cryo electron tomography

○Haruka Yuasa[1], Yuya Sasajima[1], Hana Kiyama[1], Daichi Takahashi[1,2], Takuma Toyonaga[1,3], Tomoko Miyata[4,5], Fumiaki Makino[4,5,6], Keiichi Namba[4,5], Makoto Miyata[1,3] ([1]Grad. Sch. Sci., Osaka Metropolitan Univ., [2]RIIS, Okayama Univ., [3]OCARINA, Osaka Metropolitan Univ., [4]Grad. Sch. Frontier Biosci., Osaka Univ., [5]JEOL YOKOGUSHI Res. Alliance Lab., Osaka Univ., [6]JEOL Ltd.)

P2-053/DP1-02-14

***Haloplasma* motility reconstituted in minimal synthetic bacterium, JCVI-syn3B**

○Mone Mimura[1], Hana Kiyama[1], Shingo Kato[2], Yuya Sasajima[1], Atsuko Uenoyama[1], Shigeyuki Kakizawa[3], Tomoko Miyata[4], Fumiaki Makino[4], Keiichi Namba[4], Makoto Miyata[1,5] ([1]Grad. Sch. Sci., Osaka Metropolitan Univ., [2]RIKEN BRC., JCM, [3]Bioproduction Res. Inst., AIST, [4]Grad. Sch. Frontier Biosci., Osaka Univ., [5]OCARINA, Osaka Metropolitan Univ.)

P2-054/DP1-02-15
Stator dynamics of hybrid-fuel E. coli flagellar motor observed by fluorescence microscopy
○Tomoya Shoji[1], Naoki Hidaka[2], Yong-Suk Che[3], Yoshiyuki Sowa[1,2] ([1]Dep. Front. Biosci., Hosei Univ., [2]Micro-Nano Tech., Hosei Univ., [3]Grad. Sch. Front. Biosci., Osaka Univ.)

P2-055/DP1-02-16
Inner cellular structure of Mycoplasma mobile gliding machinery observed by electron cryotomography
○Minoru Fukushima[1], Tomoko Miyata[2,3], Keiichi Namba[2,3], Takuma Toyonaga[1], Makoto Miyata[1,4] ([1]Grad. Sch. Sci., Osaka Metropolitan Univ., [2]Grad. Sch. Frontier Biosci., Osaka Univ., [3]JEOL YOKOGUSHI Res. Alliance Lab., Osaka Univ., [4]OCARINA, Osaka Metropolitan Univ.)

P2-056/DP1-02-17
Visualization and analysis of MreBs driving *Spiroplasma* motility in minimal synthetic bacterium
○Yoshiki Tanaka[1], Hana Kiyama[1], Takuma Toyonaga[1,2], Makoto Miyata[1,2] ([1]Grad. Sch. Sci., Osaka Metro Univ., [2]OCARINA, Osaka Metro Univ.)

3. Physiology / Structural biology -c. Signal transduction (intracellular and intercellular)

P2-057/DP1-08-05
Induction of the *Vibrio cholerae* taurine chemoreceptor gene in higher temperature
○Sachika Sato[1], Natsu Yamauchi[1], Shiori Onogi[1], Hirotaka Tajima[2,3], Ikuro Kawagishi[1,2,3] ([1]Grad. Sch. Sci. Eng., Hosei Univ., [2]Dept. Frontier Biosci., Hosei Univ., [3]Res. Cen. Micro-Nano Tech., Hosei Univ.)

P2-058/DP1-08-06
Quorum sensing-independent virulence regulation pathway in Ralstonia pseudosolanacearum strain OE1-1
○Tatsuya Ueyama[1], Sora Tateda[1], Akinori Kiba[1], Kouhei Ohnishi[1], Kanako Inoue[2], Yasufumi Hikichi[1], Masayuki Tsuzuki[1] ([1]Fac. Agric. Marine Sci., Kochi Univ., [2]Div. Bio. Sci., NAIST)

P2-059/DP1-08-07
The histidine kinase BaeS senses indole in its cytoplasmic domain
○Hirotaka Tajima[1,2], Kentaro Yamamoto[3], Tomoka Iseri[1], Riku Takei[4], Ikuro Kawagishi[1,2,4] ([1]Dept. Frontier Biosci., Hosei Univ., [2]Res. Cen. Micro-Nano Tech., Hosei Univ., [3]Dept. Mycobacteriol., Lepr. Res. Ctr., NIID, [4]Grad. Sch. Sci. Eng., Hosei Univ.)

P2-060/DP1-08-08
Screening for biofilm inhibitors from microorganisms isolated in Antarctica
○Hiroyuki Azakami[1,2], Hayato Kinoshita[2], Ayesha Siddiqa[2], Shohei Hayashi[3] ([1]Res. Cent. Thermotolerant Microb. Resources, Yamaguchi Univ., [2]Dept. Biol. Chem., Fac. Agr., Yamaguchi Univ., [3]Dept. Env. Sustain. Sci., Fac. Life Env. Sci., Shimane Univ.)

P2-061/DP1-08-09
RcsG, conserved connector transmitting a novel sugar stimulus from PTS to TCS
○Kazunobu Yamaguchi, Naoko Hozan, Kei Hagihara, Tomoka Fukami, Kaito Kawabata, Akinori Kato (Dept. Adv. Biosci., Grad. Sch. Agr., Kindai Univ.)

3. Physiology / Structural biology -d. Cell surface structure, membrane structures and cytoskeleton

P2-062/DP1-08-15
MamJ regulates MamK polymerization to form a dynamic cytoskeleton for magnetosome positioning
○Yuanyuan Pan[1], Yoshihiro Okuda[2], Takumi Saito[1], Azuma Taoka[3,4] ([1]Grad. Sch., Nat. Sci. Tech., Kanazawa Univ., [2]Fac. Biol. Sci. Tech., Inst. Sci. Eng., Kanazawa Univ., [3]Bioinf. DDBJ Ctr. Natl. Inst. Genet., [4]NanoLSI, Kanazawa Univ.)

P2-063/DP1-08-16
Biochemical Analysis of Cell Division Protein FtsZ of *Haloplasma contractile*
○Hirooki Fujita, Taishi Kasai, Daisuke Shiomi (Dept. Life Sci., Col. Sci., Rikkyo Univ.)

P2-064/DP1-08-17
Visualization of periodontopathic bacteria and the outer membrane vesicles by freeze fracture/SEM
○Aoi Takahashi[1,2], Hirotaka Kobayashi[3], Katsutoshi Osada[1,4], Kimihiro Abe[1], Takehiro Yamaguchi[1], Yukihiro Akeda[1], Tomoyo Nakamura[1,2,4], Tomohiko Nishino[2,4], Ryoma Nakao[1] ([1]Dept. Bacteriol. I, Natl. Inst. Infect. Dis., [2]Grad. Sch. Bionics, Tokyo Univ. Technol., [3]Dept. Pathology. I, Natl. Inst. Infect. Dis., [4]Sch. Biosci. Biotechnol, Tokyo Univ. Technol.)

P2-065/DP2-20-01
The type VII secretion system's EsxA reveals a novel function in the sporulation of *Bacillus cereus*
○Harvey Kamboyi[1], Hideaki Higashi[1], Atmika Paudel[1], Misheck Shawa[1], Misa Sugawara[1], Tuvshinzaya Zorigt[1], Joseph Chizimu[1], Yoshikazu Furuta[1], Bernard Hang'ombe[2], Musso Munyeme[3] ([1]Div. Infection and Immunity, International Inst. for Zoonosis Control, Hokkaido Univ., [2]Microbiology Unit, Paraclinical Studies, Sch. Veterinary Medicine, Univ. Zambia, [3]Public Health Unit, Disease Control Studies, Sch. Veterinary Medicine, Univ. Zambia)

P2-066/DP2-20-02

Novel structure of lipoteichoic acid in *Apilactobacillus kosoi* and its IgA-inducing activity

◯Tsukasa Shiraishi[1], Chiaki Matsuzaki[2], Tai-Ying Chiou[3], Hiroyuki Kumeta[4], Manami Kawada[2], Kenji Yamamoto[5], Tomoya Takahashi[6], Shin-ichi Yokota[1] ([1]Dept. Microbiol., Sch. Med., Sapporo Medical Univ., [2]Research Inst. Bioresources and Biotechnology, Ishikawa Prefectural Univ., [3]Dept. Biotechnol. Environ. Chem., Kitami Inst. Technology, [4]Fac. Adv. Life Sci., Hokkaido Univ., [5]Wakayama Univ., [6]ARSOA Research & Development Center, Arsoa Keioh Group Corp.)

P2-067/DP2-20-03

The biosynthesis of glycopeptidolipid in nontuberculous bacteria

◯Nagatoshi Fujiwara[1], Yuji Miyamoto[2], Yoshihiko Hoshino[2], Naoto Keicho[3], Makoto Nakaya[4], Shinji Maeda[5] ([1]Dept. Food Nutrition, Faclt. Contemp. Human Life Scie., Tezukayama Univ., [2]Nat. Inst. Infec. Dis.: Lep. Res. Cent., [3]The Res. Inst. TB, Jap. Anti-TB Assoc., [4]Org. Res. Prom., Osaka Metrop. Univ., [5]Fac. Pharm., Hokkaido Univ. Scie.)

3. Physiology / Structural biology -e. Secretion and transport

P2-068/DP2-20-04

Vibrio FliK and FlhB catalyze export switching of the *Salmonella* flagellar type III secretion system

◯Tohru Minamino[1], Miki Kinoshita[1], Keiichi Namba[1,2] ([1]Grad. Sch. Frontier Biosci., Osaka Univ., [2]JEOL YOKOGUSHI, Osaka Univ.)

P2-069/DP2-20-05

Functional analyses of a T9SS PorE protein

Takashi Tominaga, ◯Mikio Shoji, Hideharu Yukitake, Mariko Naito (Dept. Microbiol. Oral Infect. Sch. Biomed. Sci., Nagasaki Univ.)

P2-070/DP2-20-06

Genetic screening of genes involved in membrane vesicles delivery

◯Shion Komatsu[1], Yuki Usukura[1], Nobuhiko Nomura[2], Masanori Toyofuku[2] ([1]Sch. Sci. Tech., Life Ear. Sci, Univ. Tsukuba, [2]MiCS, Fac. Life and Environ. Sci., Univ. Tsukuba)

P2-071/DP2-20-07

Characterization of SusD regarding xylan uptake from the human gut bacterium *Phocaeicola plebeius*

◯Yuki Chikaraishi[1], Hidenori Hayashi[1,2], Shogo Tsuji[1] ([1]Dept. Biotech., Grad. Sch. Eng., Maebashi Inst. Technol., [2]Dept. Biotech., Fac. Eng., Maebashi Inst. Technol.)

3. Physiology / Structural biology -f. Others

P2-072/DP2-20-13

Effect of coexistence on biofilm-forming potency of bacteria from used orthokeratology lens cases

◯Ai Watanabe, Yuna Kimura, Taizo Sumide (Menicon Co., Ltd.)

P2-073/DP2-20-14

Group B Streptococcus of Stress-responsive ribonuclease MazF

◯Takuma Okabe[1,2], Rie Aoi[1,2], Akiko Yokota[2], Hiroko Tamiya-Ishitsuka[2], Jiang Yunong[2,3], Satoshi Tsuneda[1], Naohiro Noda[1,2,4] ([1]Dept. Life Sci. & Med. Biosci., Waseda Univ., [2]Biomed. Res. Inst., Natl. Inst. of Adv. Ind. Sci. & Tech. (AIST), [3]Grad. Sch. of Compr. Hum. Sci., Univ. of Tsukuba, [4]SIGMA, Univ. of Tsukuba)

P2-074/DP2-20-15

Overexpression of ribosomal proteins leads to zinc resistance in Escherichia coli

◯Tomoki Kosaki, Riko Shirakawa, Kazuya Ishikawa, Kazuyuki Furuta, Chikara Kaito (Lab. Mol. Biol., Fac. Pharm., Okayama Univ.)

P2-075/DP2-20-16

Limited proteolysis of mycobacterial DNA-binding protein 1 to unveil posttranslational modifications

◯Akihito Nishiyama[1], Yutaka Yoshida[1], Desak NSS Dewi[1], Tomoya Yamazaki[1], Akira Yokoyama[1], Daiki Kobayashi[2], Hitoshi Kondo[1], Yuriko Ozeki[1], Yoshitaka Tateishi[1], Sohkichi Matsumoto[1] ([1]Dept. Bacteriol., Niigata Univ. Sch. Med., [2]Omics Unit, Niigata Univ. Sch. Med.)

P2-076/DP2-20-17

Characterization of Staphylococcus aureus toxin-antitoxin system composed of membrane proteins

◯Fuminori Kato (Grad. Sch. Biomed. Heal Sci., Hiroshima Univ.)

4. Genetics / Genomics / Biotechnology -a. Genomics, bioinformatics and systems biology

P2-077/W6-2

Population genomics of the pathogenic fungus Aspergillus fumigatus

◯Hiroki Takahashi[1], Xiaohui He[1], Yoko Kusuya[2], Daisuke Hagiwara[1,3], Takahito Toyotome[1,4], Teppei Arai[1], Cai Bian[5], Masaki Nagayama[1], Saho Shibata[1], Akira Watanabe[1] ([1]Med. Mycol. Res. Cent., Chiba Univ., [2]NBRC, NITE, [3]Life Env. Sci., Univ. of Tsukuba, [4]Dept. Vet. Med., Obihiro Univ. A.V.M., [5]BGI)

P2-078/DP2-14-01
Diversity of the Japanese Gut Microbiome Analysis: Relative Approach Using Compositional Analysis
○Tatsuki Itagaki, Keisuke Nakamura, Shintaro Nakano, Machiko Kasai, Ji-Won Lee, Akira Hasebe (Oral Molecular Microbiology, Fac. Dental Medicine, Grad. Sch. Dental Medicine, Hokkaido Univ.)

P2-079/DP2-14-02
Genomic Analysis of *Salmonella* Isolated from Canal Water in Bangkok, Thailand
○Jirachaya Toyting[1], Narong Nuanmuang[2], Fuangfa Utrarachkij[3], Pimlapas Leekitcharoenphon[2], Frank Aarestrup[2], Toyotaka Sato[4], Jeewan Thapa[1], Chie Nakajima[1], Yasuhiko Suzuki[1] ([1]Div. Biores., Hokkaido Univ. Int. Inst. Zoonosi. Contr., [2]Res. Gr. for Genom. Epi., Nat. Food Int., Tech. Univ. of Denmark, [3]Dept. Microbiol., Fac. Publ. Healt. Mahidol Univ., [4]Lab. Vet. Hyg., Fac. Vet. Med., Hokkaido Univ.)

P2-080/DP2-14-03
Quantification and visualization of the *Escherichia coli* genome based on phylogenetic trees
○Masahiro Suzuki (Dept. Microbiology, Sch. Med., Fujita Health Univ.)

P2-081/DP2-14-04
Statistical-genetic investigation of the pathogenic factors in invasive pneumococcal diseases
○Masayuki Ono[1,2], Masaya Yamaguchi[1,2,3,4], Shigetada Kawabata[1,4] ([1]Dept. Microbiol., Osaka Univ. Grad. Sch. Dent., [2]Bioinfor. Res. Unit, Osaka Univ. Grad. Sch. Dent., [3]Bioinfor. Center, Res. Inst. Microbial Dis., Osaka Univ., [4]CiDER, Osaka Univ.)

P2-082/DP2-14-05
Phylogenetic analysis and cell adhesion of *astA*-positive *Escherichia coli* O166:H15
Akiko Kubomura[1], Ken-ichi Lee[1], Kaori Shimmen[2], Kaori Kashima[3], Nozomi Sakakida[3], Mayumi Kadoguchi[4], Yukiko Kudo[5], Yukihiro Akeda[1], ○Sunao Iyoda[1] ([1]National Inst. Infectious Diseases, [2]Himeji Inst. Env. Health, [3]Saitama Pref., [4]Kumamoto City, [5]National Inst. Health Sciences)

P2-083/DP2-14-06
Genomic characterization of STEC strains isolated from asymptomatic carriers
○Yumi Imai[1], Hiroshi Kaneko[2], Miki Okuno[1], Yuki Hoshiko[1], Takeshi Yamamoto[1], Ken-ichi Lee[3], Akio Noguchi[2], Sunao Iyoda[3], Toshio Sato[2], Yoshitoshi Ogura[1] ([1]Div. Microbiol. Dept. Infect. Med. Kurume Univ. Sch. Med., [2]Japan Microbiological Laboratory Co., Ltd., [3]Dept. Bacteriology I, National Inst. Infectious Diseases)

P2-084/DP2-14-07
Functional Genomic Characterization of Nontuberculous Mycobacteria from Bathroom Environments
○Marie Ikai[1], Yukiko Nishiuchi[2], So Fujiyoshi[2], Fumito Maruyama[2], Yusuke Minato[1] ([1]Dept. Microbiol., Sch. Med., Fujita Health Univ., [2]Dept. Microbial Genomics and Ecology, Hiroshima Univ.)

4. Genetics / Genomics / Biotechnology -b. Horizontal gene transfer, mobile genetic element and evolution

P2-085/DP2-14-08
Genome analysis reveals mechanisms of resistance gene transfer in ESBL-producing *Aeromonas*
○Miki Okuno[1], Michiyo Sugiyama[2], Yuki Hoshiko[1], Takeshi Yamamoto[1], Tetsuo Asai[2], Yoshitoshi Ogura[1] ([1]Dept. Infectious Med., Kurume Univ. Sch. Med., [2]United Grad. Sch. Vet. Sci., Gifu Univ.)

4. Genetics / Genomics / Biotechnology -c. Gene regulation and transcriptome analysis

P2-086/DP2-17-03
The role of responses against environmental stress on the pathogenicity of *Treponema denticola*
○Kazuyuki Ishihara[1], Yurie Kitamura[2], Yuichiro Kikuchi[1], Eitoyo Kokubu[1], Keiko Yamashita[2], Atsushi Saito[2] ([1]Dept. Microbiol., Tokyo Dent. Coll., [2]Dept. Periodontol., Tokyo Dent. Coll.)

P2-087/W6-4
The ABCF proteins in *Escherichia coli* alleviate "hard-to-translate" amino acid sequences
○Yuhei Chadani[1], Eri Uemura[2], Hideki Taguchi[2] ([1]Fac. Env., Life., Nat. Sci., and Tech., Okayama Univ., [2]IIR, Tokyo Inst. of Tech.)

P2-088/W6-1
The regulatory circuit for pathogenicity by read-through transcription in Vibrio parahaemolyticus
○Eiji Ishii[1,2], Dhira Saraswati Anggramukti[1], Andre Pratama[1], Mohamad Al Kadi[3], Tetsuya Iida[1,2], Toshio Kodama[4], Shigeaki Matsuda[1,2] ([1]Dept. Bac. Infect., RIMD, Osaka Univ., [2]Cent. for Infect. Dis. Edu. Res., Osaka Univ., [3]Hum. Immunol., IFREC, Osaka Univ., [4]Dept. Bac., Inst. Trop. Med., Nagasaki Univ.)

P2-089/DP2-17-04
Effect of phased A-tracts on α-toxin gene expression in *Clostridium perfringens*
○Seiichi Katayama[1], Saya Matsui[2], Naoya Hashikawa[1], Hinata Sato[2], Kazuyoshi Aibara[2], Chiharu Tanaka[2], Hirofumi Nariya[3], Nozomu Matsunaga[1] ([1]Dept. Life Sci., Fac. Sci., Okayama Univ. Sci., [2]Dept. Life Sci., Grad. Sch. Sci., Okayama Univ. Sci., [3]Dept. Food Sci., Fac. Human Life, Jumonji Univ.)

P2-090/DP2-17-05

Salmonella adiA mRNA encoding acid resistance core releases sRNA in acidic and anaerobic environment

◯Takeshi Kanda[1], Fang Liu[2], Sarah Reichardt[3], Hoda Kooshapour[3], Alexander Westermann[3], Yanjie Chao[2], Masatoshi Miyakoshi[1] ([1]Inst. Med., Univ. Tsukuba, [2]Shanghai Institute of Immunity and Infection, CAS, [3]Univ. Würzburg)

P2-091/DP2-17-06

Analysis of translation arrest peptides in Alteromonas species

◯Naoko Tsuji, Keigo Fujiwara, Hiraku Takada, Shionobu Chiba (Fac. Life Sci., Kyoto Sangyo Univ.)

4. Genetics / Genomics / Biotechnology -d. Genetic manipulation and analysis, biotechnology and synthetic biology

P2-092/DP2-17-07

Exploring Cold Shock Protein Variants Across Bacterial Lineages and Analyzing Genome Characteristics

◯Satoshi Hasegawa[1,2], Rerina Inose[1], Teppei Morita[1,3] ([1]Inst. Adv. Biosci., Keio Univ., [2]Fac. Env. Info. Studies, Keio Univ., [3]Grad. Sch. Media & Governance, Keio Univ.)

P2-093/W6-5

Systemic discovery of phage genes that inactivate bacterial immune systems

◯Shinjiro Ojima[1], Aa Haeruman Azam[1], Kohei Kondo[2], Kotaro Chihara[1], Azumi Tamura[1], Wakana Yamashita[1], Tomohiro Nakamura[1,3], Yoshimasa Takahashi[1], Koichi Watashi[1], Kotaro Kiga[1] ([1]Res. Ctr. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [2]AMR Res. Ctr., Natl. Inst. Infect. Dis., [3]Lab. Vet. Biochem. Dept. Vet. Med., Rakuno Gakuen Univ.)

P2-094/DP2-17-08

Development of Bacteriophage Vectors for Targeted Gene Delivery to Cancer Cells

◯Takashi Sugano, Srivani Veeranarayanan, Yoshifumi Aiba, Kazuhiko Miyanaga, XinEe Tan, Kanate Thitiananpakorn, Shinya Watanabe, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P2-095/DP2-17-09

Isolation of membrane vesicle-producing bacteria using probes sensing highly curved membranes

◯Itsuki Oono[1], Yusuke Sato[2], Maho Tokuda[3], Masaki Shintani[1,3,4,5], Moriya Ohkuma[4], Hiroyuki Futamata[1,3,5], Yosuke Tashiro[1,3] ([1]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ., [2]Grad. Sch. Sci. Tohoku Univ., [3]Grad. Sch. Sci. Tech. Shizuoka Univ., [4]BRC-JCM, RIKEN, [5]Res. Inst. Green Sci. Tech. Shizuoka Univ.)

4. Genetics / Genomics / Biotechnology -e. Others

P2-096/DP2-17-17

Development of an antimicrobial phage-capsid targeting Colorectal cancer (CRC)-associated *E. coli*

◯Ola Alessa[1], Kanate Thitiananpakorn[1], Yuya Hidaka[1], Yoshifumi Aiba[1], Shinya Watanabe[1], Kazuhiko Miyanaga[1], Srivani Veeranarayanan[1], XinEe Tan[1], Kotaro Kiga[2], Longzhu Cui[1] ([1]Div. Bacteriol, Sch. Med., Jichi Med. Univ., [2]Research Center for Drug and Vaccine Development, NIID)

P2-097/DP2-17-18

Functional genomics reveals the mechanism of hypoxic adaptation in nontuberculous mycobacteria

◯Yoshitaka Tateishi, Yuriko Ozeki, Akihito Nishiyama, Sohkichi Matsumoto (Dept. Bacteriol., Sch. Med., Niigata Univ.)

P2-098/DP2-17-19

Novel chromosomal markers for detecting *Bacillus anthracis*

◯Tuvshinzaya Zorigt[1], Hideaki Higashi[1], Yoshikazu Furuta[1], Atmika Paudel[1], Harvey Kamboyi[1], Misheck Shawa[1], Mungunsar Chuluun[1], Misa Sugawara[1], Musso Munyeme[2], Bernard Hang'ombe[3] ([1]Div. Infection and Immunity, International Inst. for Zoonosis Control, Hokkaido Univ., [2]Public Health Unit, Disease Control Studies, Sch. Veterinary Medicine, Univ. Zambia, [3]Microbiology Unit, Paraclinical Studies, Sch. Veterinary Medicine, Univ. Zambia)

5. Pathogenicity -a. Adhesins and colonization factors

P2-099

Analysis to identify factors of the severity in LEE-negative enterohemorrhagic *Escherichia coli*

◯Akiko Kubomura[1], Ken-ichi Lee[1], Sunao Iyoda[1], Yukihiro Akeda[1], EHEC Working Group[2] ([1]National Inst. Infectious Diseases, [2]Local Health Research Inst.)

P2-100/DP1-04-02

The role of TusDCB, a sulfur transferase complex on pathogenesis and microcolony formation in UPEC

◯Yumika Sato[1], Ayako Takita[1], Kazutomo Suzue[2], Yusuke Hashimoto[1], Suguru Hiramoto[3], Masami Murakami[3], Haruyoshi Tomita[1], Hidetada Hirakawa[1] ([1]Dept. Bacteriol., Sch. Med., Gunma Univ., [2]Dept. Host Def., Sch. Med., Gunma Univ., [3]Dept. Clin. Lab. Med., Sch. Med., Gunma Univ.)

P2-101/DP1-04-03

In silico analysis of genetic diversity in chaperone-usher fimbria of E.coli from human samples

◯Hiharu Inoue[1], Takayuki Wada[1,2] ([1]Dept. Microbiol., Grad. Sch. Hum. Life Ecol., Osaka Metropolitan Univ., [2]Osaka Intl. Res. Ctr. Infect. Dis.)

P2-102/DP1-04-04
Assembly mechanism and structural insights into the Mfa1 minor pilus from *Porphyromonas gingivalis*
◯Satoshi Shibata[1,2], Hideyuki Matsunami[2], Kazuhisa Ouhara[4], Yuri Taniguchi[4], Mikio Shoji[3], Matthias Wolf[2] ([1]Div. Bacteriol, Dept. Microbiol. Immunol., Med., Tottori Univ., [2]Molecular Cryo-Electron Microscopy Unit, OIST, [3]Dept. Microbiol. Oral Infect., Grad. Sch. Bio. Sci., Nagasaki Univ., [4]Dept. Periodontal Medicine, Grad. Sch. Biomed. and Health Sci., Hiroshima Univ.)

P2-103/DP1-04-05
Identification of diffusely adherent *Escherichia albertii* from raccoon
◯Atsushi Hinenoya[1], Sharda Awasthi[1,2,3], Noritoshi Hatanaka[1,2,3], Shinji Yamasaki[1,2,3] ([1]Grad. Sch. Vet. Sci., Osaka Metro. Univ., [2]Asian Health Sci. Res. Inst., Osaka Metro. Univ., [3]Osaka Int. Res. Cent. Infect. Dis., Osaka Metro. Univ.)

5. Pathogenicity
-b. Toxins, effectors and physically active substances

P2-104/DP1-10-08
***Bordetella bronchiseptica* produces pertussis toxin**
◯Shymaa Ali[1], Yukihiro Hiramatsu[1], Takashi Nishida[1], Dendi Krisna Nugraha[1], Yasuhiko Horiguchi[1,2] ([1]Dept. Mol. Bact., RIMD., Osaka Univ., [2]CiDER., Osaka Univ.)

P2-105/DP1-10-09
Analysis of the transcription of serine protease gene by *Aeromonas sobria*
◯Eizo Takahashi[1], Sadayuki Ochi[1], Masaharu Tanaka[1], Toshiyuki Yui[1], Hidetomo Kobayashi[2], Soshi Seike[2], Hiroyasu Yamanaka[2], Keinosuke Okamoto[3] ([1]Fac. Pharm. Sci., Yokohama Univ. Pharm., [2]Fac. Pharm. Sci., Hiroshima Int. Univ., [3]Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ.)

P2-106/DP1-10-10
Structure and dynamics analysis of a clostridial collagenase
◯Osamu Matsushita[1], Takehiko Mima[2], Adjoa Bonsu[3], Hiroya Oki[6], Ryo Masuda[7], Takaki Koide[8], Hayato Yamashita[4], Kazuki Kawahara[5], Joshua Sakon[3] ([1]Dept. Bacteriol., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., [2]Dept. Med. Tech., Fac. Health Sci., Ehime Pref. Univ. Health Sci., [3]Dept. Chem. Biochem., Univ. Arkansas, [4]Ctr. Sci. Tech. Extr. Cond, Grad. Sch. Eng. Sci., Osaka Univ., [5]Grad. Sch. Pharm. Sci., Osaka Univ., [6]Dept. Infect. Metagenomics., Res. Inst. Micro. Dis., Osaka Univ., [7]Waseda Res. Inst. Sci. Engineer., Waseda Univ., [8]Dept. Chem. Biochem., Sch. Adv. Sci Eng., Waseda Univ.)

P2-107/DP1-10-11
Investigation of the cytotoxic mechanism of Discoidinolysin produced by *S. mitis* strain Nm-76
◯Sayaka Tsukasaki[1], Kazuto Ohkura[2], Toshifumi Tomoyasu[1,3], Hideaki Nagamune[3], Atsushi Tabata[1,3] ([1]Div. Bioresour. Sci., Grad. Sch. Sci. & Tech. Innov., Tokushima Univ., [2]Div. Pharm. Sci., Suzuka Univ. Med. Sci. Grad. Sch., [3]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ.)

P2-108/DP1-10-12
Elucidation of mechanism of vacuolation induced by Escherichia coli-derived Outer Membrane Vesicles
◯Teresia Kimeu, Kazunori Murase, Atsuko Nozawa, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

P2-109/DP1-10-13
Interaction analysis between BteA and BopN produced by *Bordetella*
◯Toshinobu Ogawa, Asaomi Kuwae, Akio Abe (Grad. Sch. Infect. Cont. Sci., Kitasato Univ.)

P2-110/DP1-10-14
Functional analysis of Bordetella BcrH2
◯Maho Miyasugi, Akio Abe, Asaomi Kuwae (Grad. Sch. Infect. Contr. Sci., Kitasato Univ.)

P2-111/DP1-10-15
Functional analysis of the cell wall-anchored surface protein "Endo D" of *Streptococcus intermedius*
◯Toshifumi Tomoyasu[1], Atsushi Tabata[1], Ayuko Takao[2], Hideaki Nagamune[1] ([1]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ., [2]Dept. Oral Bacteriol., Tsurumi Univ.)

P2-112/DP1-10-16
Investigation for growth and pathogenicity of *G. bergeri* isolate in the presence of serum components
◯Atsushi Tabata[1], Toshifumi Tomoyasu[1], Ken Kikuchi[2], Hideaki Nagamune[1] ([1]Div. Biosci. & Bioind., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ., [2]Dept. Infect. Dis., Tokyo Women's Med. Univ.)

P2-113/DP2-16-01
The growth and toxin-production property of *S. infantis* in the presence of erythrocyte components
◯Yoshiki Itoh[1], Toshifumi Tomoyasu[1,2], Hideaki Nagamune[1,2], Ayuko Takao[3], Atsushi Tabata[1,2] ([1]Div. Bioresour. Sci., Grad. Sch. Sci & Tech. Innov., Tokushima Univ., [2]Div. Biosci. & Bioind., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ., [3]Dept. Oral Bacteriol., Tsurumi Univ.)

P2-114/DP2-16-02

***Listeria monocytogenes* promotes inflammasome activation through Btk phosphorylation**

◯Hajime Yamauchi, Yasuyuki Matsuda, Hideki Hara (Dept. Infect. Dis., Div. Microbiol. Immunochem., Asahikawa Med. Univ.)

5. Pathogenicity -c. Cell invasion and intracellular parsitism

P2-115/W6-7

Exploring genes necessary for *Bordetella bronchiseptica* survival in *Acanthamoeba castellanii*

◯Dendi Krisna Nugraha[1], Xingyan Ma[1], Hiroyuki Yamaguchi[2], Yasuhiko Horiguchi[1,3] ([1]Dept. Mol. Bact. RIMD, Osaka Univ., [2]Fac. Health Sci. Hokkaido Univ., [3]CiDER, Osaka Univ.)

P2-116/W6-8

Spatiotemporal microscopic analysis of the *Salmonella* Typhimurium invasion

◯Hiroaki Kubota[1], Togo Shimozawa[2], Kai Kobayashi[1], Morika Mitobe[1], Yasunori Suzuki[3], Jun Suzuki[1], Kenji Sadamasu[1] ([1]Dept. Microbiol., Tokyo Metr. Inst. Pub. Health, [2]Sch. Sci., The Univ. Tokyo, [3]Sch. Vet. Med., Kitasato Univ.)

5. Pathogenicity -d. Immune escape and proliferation in hosts

P2-117/DP2-16-05

Analysis of protective function of mycobacterial biofilms for bacilli

◯Shota Torigoe[1,2], Kentaro Yamamoto[1], Manabu Ato[1] ([1]Dept. Mycobacteriol. Lepr. Res. Ctr., NIID, [2]Mgmt. Dept. Biosafety, Lab. Anim., and Pathog. Bank, NIID)

P2-118/W8-1

A role of Aeromonas hydrophila RtxA during necrotizing soft tissue infection

◯Kohei Yamazaki, Kei Shiraishi, Saeko Takizawa, Takashige Kashimoto (Vet. Public Health, Kitasato Univ.)

P2-119/W8-2

Rop in enterohemorrhagic *Escherichia coli* enhances the general stress response via small RNAs

◯Takeshi Shimizu[1], Shin Suzuki[1], Takashi Hamabata[2] ([1]Dept. Mol. Infectiol., Grad. Sch. Med., Chiba Univ., [2]Bacterial Infection, Reserach Inst., NCGHM)

P2-120/DP2-16-06

Immunomodulatory Effect of Heat Shock Protein SSA1 Enriched in Hypoxic Secretome of Candida albican

◯Wei Teng[1], Phawinee Subsomwong[1], Kouji Narita[2], Akio Nakane[3], Krisana Asano[1,3] ([1]Dept. Microbiol. Immunol., Hirosaki Univ. Grad. Sch. Med, [2]Inst. Anim. Exp., Hirosaki Univ. Grad. Sch. Med., [3]Dept. Biopolym. Health Sci., Hirosaki Univ. Grad. Sch. Med.)

P2-121/DP2-16-07

Excess cation stress and tolerance mechanisms in Salmonella

◯Yumi Iwadate, James Slauch (Dept. Microbiol, Sch. Mol. Cell Biol., Univ. Illinois.)

5. Pathogenicity -e. Infection models

P2-122/DP2-19-02

***Salmonella enterica* serovar Gallinarum *ratA* contributes to lethal systemic infection in chickens**

◯Chihiro Aikawa, Masashi Okamura (Lab. Vet. Microbiol., Div. Vet. Sci., Obihiro Univ. Agric. Vet. Med.)

P2-123/DP2-19-03

Analysis of host response to *Clostridium perfringens* type A infection

Tomoaki Ishihara[1], Yoshihiko Sakaguchi[2], Masahiro Nagahama[2], ◯Masaya Takehara[2] ([1]Fac. Pharm. Sci., Nagasaki International Univ., [2]Dept. Microbiol., Fac. Pharm. Sci., Tokushima Bunri Univ.)

P2-124/DP2-19-04

Ability of *Paraclostridium bifermentans* subsp. *muricolitidis* to metabolize selenocysteine

◯Ryo Kutsuna, Junko Tomida, Yoshiaki Kawamura (Dept. Microbiol., Sch. Pharm., Aichi Gakuin Univ.)

P2-125/DP2-19-05

Identification of virulence factors by comparative analysis of Vibrio vulnificus clinical isolates

◯Yuuka Tonosaki, Ai Saito, Kohei Yamazaki, Shunji Ueno, Takashige Kashimoto (Lab. Vet. Public Health. Sch. Vet. Med., Kitasato Univ.)

P2-126/DP2-19-06

Analysis of immune responses in oral infection of mice with *Candida albicans*

◯Kenji Toyonaga[1,2], Jun-ichi Nagao[1,2], Sonoko Tasaki[1], Masayuki Umemura[3], Sari Kishikawa[1,2], Emi Kaji[1], Aoba Iwanuma[1], Masanobu Nakagami[1], Satoru Iwai[1], Yoshihiko Tanaka[1,2] ([1]Div. Infect. Biol., Dept. Funct. Biosci., Fukuoka Dent. Coll., [2]Oral Med. Res. Cent., Fukuoka Dent. Coll., [3]Mol. Microbiol. Gr., TBRC, Univ. Ryukyus)

5. Pathogenicity -f. Others

P2-127/W6-6
Coordination of prophage and global regulator lead to high SEA production
◯Yusuke Sato'o[1], Junzo Hisatsune[2], Aziz Fatkhanuddin[3], Nobuyuki Tatsukawa[3], Mari Nakagawa-Shibata[4], K. Hisaya Ono[5], Ikunori Naito[4], Katsuhiko Omoe[4], Motoyuki Sugai[2] ([1]Lab. Infect. Cont. and Immun., Sch. Vet. Med. Azabu Univ., [2]Antimicro. Resist. Res. Center, NIID, [3]Bacteriol., Hiroshima Grad. Univ., [4]Lab. Food Safety, Sch. Vet. Med, Iwate Univ., [5]Lab. Zoonosis, Sch. Vet. Med, Kitasato Univ.)

P2-128/DP2-19-07
Pathogenicity of *Paenibacillus* spp. from honey other than foulbrood pathogens to honeybee larvae
◯Daisuke Takamatsu[1,2], Keiko Nakamura[3], Mariko Harada[3], Mariko Okamoto[1], Takashi Mada[1] ([1]Natl. Inst. Anim. Hlth., NARO, [2]Gifu Univ., [3]RIAS)

P2-129/DP2-19-08
Analysis of the effect of ozone ultrafine bubble water against various bacteria and bacterial toxins
◯Fumio Takizawa[1], Hisanori Domon[1,2], Satoru Hirayama[1], Toshihito Isono[1], Karin Sasagawa[1], Daisuke Yonezawa[3], Akiomi Ushida[4], Satomi Tsutsuura[5], Yutaka Terao[1,2] ([1]Div. Microbiol. Infect Dis., Niigata Univ. Grad. Sch. Med. Dent. Sci., [2]Cent. For. Adv. Oral Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci., [3]Div. Oral Sci. Health Prom, Niigata Univ. Grad. Sch. Med. Dent. Sci., [4]Inst. Sci. Tech., Niigata Univ., [5]Fac. Agric., Niigata Univ.)

P2-130/DP2-19-09
Analysis of the effect of tyramine on the pathogenesis of European foulbrood in honey bees
◯Mariko Okamoto[1], Daisuke Takamatsu[1,2], Ryuichi Uegaki[1], Keiko Nakamura[3], Mariko Harada[3] ([1]NIAH, NARO, [2]UGSVS, Gifu Univ., [3]RIAS)

P2-131/DP2-19-10
Characteristics of nitrate-reducing bacteria from patients with gastritis and gastric cancer
◯Serika Kuwagi[1], Yumiko Yamamoto[2], Jumpei Uchiyama[2], Osamu Matsushita[2], Kazuyoshi Gotoh[1], Akari Watanabe[3], Kenji Yokota[1] ([1]Health Science, Okayama Univ., [2]Dept. Path. Bacteriol., Grad. Sch. Med. Dent. Pham. Okayama Univ., [3]Oral Health Care and Rehabilitation, Inst. Biomed. Sciences, Tokushima Univ.)

P2-132/DP2-19-11
Possibility of periodontal bacteria causing changes in liver drug metabolism
◯Toshitaka Miura[1], Shuu Suzuki[2], Takako Oikawa[3], Taichi Ishikawa[1] ([1]Div. Mol. Microbiol., Dept. Microbiol., Sch. Dent., Iwate Med. Univ., [2]Div. Oral Maxillofac. Surg., Dep. Reconstructive Oral Maxillofac. Surg., Sch. Dent., Iwate Med. Univ., [3]Div. Periodont., Dep. Conservative Dent., Sch. Dent., Iwate Med. Univ.)

6. Host defense -a. Innate immunity

P2-133/DP1-05-01
Alendronate augments lipid A-induced IL-1β release via activation of ASC or AP-1, but not caspase-11
◯Riyoko Tamai, Yusuke Kiyoura (Dept. Oral Med. Sci., Sch. Dent., Ohu Univ.)

P2-134/DP1-05-02
Detection of bacteria by immune activating receptor via plasma components
◯Yifan Li[1], Kouyuki Hirayasu[1], Gen Hasegawa[1], Yosei Tomita[2], Yuko Hashikawa[3], Hisashi Arase[4,5], Rikinari Hanayama[1,3] ([1]Adv. Prev. Med. Sci. Res. Cen., Kanazawa Univ., [2]Dept. Immunol., Med. Pharm., Kanazawa Univ., [3]NanoLSI., Kanazawa Univ., [4]Dept. Immunochem., RIMD, Osaka Univ., [5]Lab. Immunochem., IFReC, Osaka Univ.)

P2-135/DP1-05-03
Growth of S. pneumoniae colonized in the nasopharynx associated with RSV infection
◯Saki Ishikawa[1], Nanami Okada[2], Yuzu Fukui[2], Shigeki Nakamura[1], Toshihiro Ito[2], Takehiko Shibata[1] ([1]Dept. Microbiol., Sch. Med., Tokyo Med. Univ., [2]Dept. Immunol., Sch. Med., Nara Med. Univ.)

P2-136/DP1-05-04
A balance of paired immune receptors and bacterial pathogenicity
◯Gen Hasegawa[1], Kouyuki Hirayasu[1], Yifan Li[1], Hisashi Arase[2,3,4], Masaya Yamaguchi[4,5,6,7], Shigetada Kawabata[4,7], Rikinari Hanayama[1] ([1]Adv. Prev. Med. Sci. Res. Cen., Kanazawa Univ., [2]Dept. Immunochem., RIMD, Osaka Univ., [3]Lab. Immunochem., IFReC, Osaka Univ., [4]CiDER, Osaka Univ., [5]Bioinform. Res. Unit, Osaka Univ. Grad. Sch. Dent., [6]Bioinform. Cent., RIMD, Osaka Univ., [7]Dept. Microbiol., Osaka Univ. Grad. Sch. Dent.)

P2-137/W8-3
E3 ligase SIAH1 mediates Streptolysin O ubiquitination for xenophagy against Group A Streptococcus
◯Min Wu, Xin Hu, Junpei Iibushi, Atsuko Nozawa, Kazunori Murase, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol, Grad. Sch. Med., Kyoto Univ.)

P2-138/DP1-05-05

Rab13 GTPase is involved in ubiquitin-mediated recognition of Group A Streptococcus in xenophagy

○Xin Hu, Min Wu, Junpei Iibushi, Atsuko Nozawa, Kazunori Murase, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

6. Host defense -b. Acquired immunity, vaccines and prevention and control of infections

P2-139/DP1-11-06

Magnetic Nanoparticle Encapsulation of Membrane Vesicles to Enhance Cancer Therapy Effectiveness

○Yushi Nagasaka[1], Chihiro Suzuki[2], Hiroyuki Futamata[1,3], Satoshi Ota[1], Yosuke Tashiro[1] ([1]Grad. Sch. Intgr. Sci. Tech. Shizuoka Univ., [2]Dept. Appl. Chem. Biochem. Eng. Shizuoka Univ., [3]Res. Inst. Green Sci. Tech. Shizuoka Univ.)

P2-140/DP1-11-07

Strategic Construction of DNA Vaccine Candidates with Bacteriophages for TB

○Yi Liu, Srivani Veeranarayanan, Kanate Thitiananpakorn, Yoshifumi Aiba, XinEe Tan, Kazuhiko Miyanaga, Shinya Watanabe, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

P2-141/W8-4

Periodontitis vaccine using three different bacterial outer membrane vesicles in canine model

○Ryoma Nakao[1], Takehiro Yamaguchi[1], Jun Saeki[2], Kimihiro Abe[1], Yukihiro Akeda[1], Tomoyo Nakamura[3], Tomohiko Nishino[3], Kazuyuki Ishihara[4], Atsushi Jinno-Oue[5], Satoshi Inoue[1] ([1]Dept. Bacteriol. I, Natl. Inst. Infect. Dis., [2]Dept. Ani. Sci., Teikyo Univ. Technnol., [3]Sch. Biosci. Biotechnol., Tokyo Univ. Technol., [4]Dept. Microbiol., Tokyo Dent. Coll., [5]Biores. Center, Gunma Univ.)

P2-142/DP1-11-08

Molecular mechanism of the preventive effect of Ninjinyoeito on *Klebsiella pneumoniae* infection

○Rika Tanaka[1], Shogo Tsubaki[2], Hitoshi Tsugawa[2] ([1]Dept. Immunology, Div. Infect. Host Def., Sch. Med., Tokai Univ., [2]Transkingdom Signaling Research Unit, Div. Infect. Host Def., Sch. Med., Tokai Univ.)

P2-143/DP1-11-09

Different prime-boost regimens via systemic or mucosal routes with a novel membrane vesicle vaccine

○Hiroki Uchiyama[1,2], Takehiro Yamaguchi[1], Nozomu Obana[3], Kimihiro Abe[1], Masanori Toyofuku[4], Nobuhiko Nomura[4], Yukihiro Akeda[1], Ryoma Nakao[1] ([1]Dept. Bacteriol. I, Natl. Inst. Infect. Dis., [2]Dept. Surg., Tokyo Med. Dent. Univ. Grad Sch. Med., [3]Tsukuba Transborder Medical Research Center, Fac. Medicine, Univ. of Tsukuba, [4]Microbiology Research Center for Sustainability (MiCS), Univ. Tsukuba)

P2-144/DP1-11-10

Exploration of RNA signatures reflecting mycobacterial load in the lungs using active TB mouse model

○Hajime Nakamura, Shintaro Seto, Minako Hijikata, Naoto Keicho (Dept. Pathophysiol. Host Defense, Research Inst. Tuberculosis)

P2-145/DP1-11-11

Evaluation of protective effect induced by intranasal vaccination of Bordetella Pertussis

○Sora Ishikawa[1,3], Akira Ainai[1], Rena Sakamoto[1], Ryoma Nakao[2], Tadaki Suzuki[1], Koji Tamura[3] ([1]Dept. Pathology, NIID, [2]Dept. Bacteria 1, NIID, [3]Dept. Bio Sci. and Tech., Grad. Sch. Indu. Sci. and Tech., Tokyo Univ. of Sci.)

P2-146/W8-5

Recombinant MDP1 with post-translational modifications enhances IFN-gamma production by blood cells

○Yuriko Ozeki[1], Akihito Nishiyama[1], Yoshitaka Tateishi[1], Junichi Maeyama[2], Sumiko Iho[3], Toshiko Yamamoto[2], Daisuke Hayashi[4], Saburo Yamamoto[2,4], Amina Kaboso Shaban[1], Sohkichi Matsumoto[1] ([1]Dept. Bact. Sch. Med., Niigata Univ., [2]NIID, [3]Pasteur Center, [4]Japan BCG)

P2-147/DP1-11-12

Enhanced immunity to pulmonary tuberculosis by vaccination with Zinc metalloprotease 1-deficient BCG

○Masayuki Umemura[1,2,3], Giichi Takaesu[1,2,3], Goro Matsuzaki[1,2,3] ([1]Trop. Biosphere Res. Cent., Univ. Ryukyus, [2]Drpt. Host Defense, Grad. Sch. Med., Univ. Ryukyus, [3]Adv. Med. Res. Cent., Fac. Med., Univ. Ryukyus)

P2-148/DP1-11-13

Genetic engineering employing MPB70 enables efficient expression of foreign antigen in BCG Tokyo

○Atsuki Takeishi, Amina Kaboso Shaban, Yuriko Ozeki, Yutaka Yoshida, Akihito Nishiyama, Yoshitaka Tateishi, Sohkichi Matsumoto (Dept. Bacteriol., Sch. Med, Niigata Univ.)

6. Host defense -c. Others

P2-149/W8-6

Metabolites from microbiota provide colonization resistance against Candida albicans in the gut

○Yoshiyuki Goto, Bonita McCuaig (Div. Mol. Immunol., MMRC., Chiba Univ.)

P2-150/W8-7

Diversity of Septu anti-phage defense system triggered by distinct phage components

○Kotaro Chihara[1], Kohei Kondo[2], Aa Haeruman Azam[1], Shinjiro Ojima[1], Yo Sugawara[2], Motoyuki Sugai[2], Yoshimasa Takahashi[1], Koichi Watashi[1], Kotaro Kiga[1] ([1]Res. Cent. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [2]AMR Res. Cent., Natl. Inst. Infect. Dis.)

P2-151/W8-8
Transcription factor MafB regulates Mycobacterial infection in mice
◯Haruka Hikichi[1,2], Hajime Nakamura[1], Shiho Omori[1], Shintaro Seto[1], Minako Hijikata[1], Naoto Keicho[3] ([1]Dept. Pathophysiology and Host Defense, RIT, JATA, [2]Dept. Infection Research, Nagasaki Univ. Grad. Sch. Biomedical Sciences, [3]The Research Inst. Tuberculosis, Japan Anti-Tuberculosis Association)

7. Antimicrobial agents and resistance -a. Antimicrobial agents

P2-152/DP1-06-01
Effects of β-caryophyllene on antimicrobial susceptibility of MRSA
◯Harue Nomura[1], Katsuya Sakuma[2], Yasunori Isshiki[1] ([1]Dept. Microbiol., Sch. Pharm., Josai Univ., [2]Ogawa & Co., Ltd.)

P2-153/DP1-06-02
Antibacterial effect of Lonicera caerulea fruit against vancomycin-resistant enterococci
◯Masaaki Minami[1], Mineo Nakamura[2] ([1]Dept. Bacteriol. Nagoya City Univ. Grad. Sch. Med., [2]Nakamura Pharm.)

P2-154/DP1-06-03
The development of inhibitors that regulate the function of a sugar-binding protein of *S. pyogenes*
◯Tsukushi Yamawaki[1], Makoto Nakakido[1], Satoru Nagatoishi[1], Chihiro Aikawa[2], Jose Caaveiro[3], Ichiro Nakagawa[4], Kouhei Tsumoto[1,5] ([1]Sch. Eng., The Univ. of Tokyo, [2]Sch. Agri., Obihiro Univ., [3]Grad. Sch. Pharm. Sci., Kyusyu Univ., [4]Sch. Med., Univ. of Kyoto, [5]Inst. of Med. Sci., The Univ. of Tokyo)

P2-155/DP1-06-04
Lonidamine as an inactivator for the BvgAS system of *Bordetella pertussis*
◯Natsuko Ota[1], Toshiya Ueno[1], Yukihiro Hiramatsu[1], Yasuhiko Horiguchi[1,2] ([1]Dept. Mol. Bacteriol., RIMD., Osaka Univ., [2]CiDER., Osaka Univ.)

P2-156/DP1-06-05
Isolation and characterization of a useful broad-host-range prophage from E. coli
◯Jastin Edrian Revilleza, Ho Thi My Duyen, Kanate Thitiananpakorn, Ola Alessa, Yoshifumi Aiba, Shinya Watanabe, Kazuhiko Miyanaga, Srivani Veeranarayanan, XinEe Tan, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P2-157/DP1-06-06
Analysis of the effect of β-glycyrrhetinic acid on human supragingival biofilms
◯Shinya Kato[1,2], Xiangtao Ma[1], Kayo Satou[3], Aya Okumura[3], Kenji Yoshimura[3], Nobuo Yoshinari[1,2], Akihiro Yoshida[1,4] ([1]Dept. Oral Health Sci., Grad. Sch. Matsumoto Dent. Univ., [2]Dept. Periodontol., Matsumoto Dent. Univ., [3]Human Health Care Products Research, Kao Corporation, [4]Dept. Microbiol., Matsumoto Dent. Univ.)

P2-158/DP1-06-07
Photothermal Ablation of Pseudomonas aeruginosa biofilms by Phage Gold Nanorod Bioconjugates
◯Sarangi Jayathilake, Tomofumi Kawaguchi, Srivani Veeranarayanan, Kanate Thitiananpakorn, Shinya Watanabe, XinEe Tan, Yoshifumi Aiba, Kazuhiko Miyanaga, Longzhu Cui (Dept. Bacteriol., Sch. Med., Jichi Med. Univ)

P2-159/DP1-06-08
Antibacterial activity of fatty acids against Staphylococcus aureus and Streptococcus pyogenes
◯Keijuro Ohdan[1,2], Yujin Suzuki[1], Miki Matsuo[1,3], Nguyen Tra Mi Le[1,3], Chika Arai[3,4], Junzo Hisatsune[3,4], Yo Sugawara[3,4], Tomonao Aikawa[2], Motoyuki Sugai[3,4], Hitoshi Komatsuzawa[1,3] ([1]Dept. Bacteriol., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., [2]Dept. Oral and Maxillofacial Surgery, Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., [3]Proj. Res. Ctr. for Nosocominal Infectious Diseases, Hiroshima Univ., [4]Antimicrobial Resistance Res. Ctr., National Inst. Infectious Diseases)

P2-160/W10-7
Costruction of CRISPR-Cas13a antibacterial capsid for targeting Enterotoxigenic *Bacteroides fragilis*
◯Mahmoud Arbaah, Thuy Nguyen, Yoshifumi Aiba, Shinya Watanabe, Kazuhiko Miyanaga, XinEe Tan, Kanate Thitiananpakorn, Teppei Sasahara, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P2-161/DP1-06-09
WQ-3810: A Novel Fluoroquinolone Exhibiting Potency Against Fluoroquinolone-Resistant *M. avium*
◯Sasini Jayaweera[1], Jeewan Thapa[1], Chie Nakajima[1,2], Yasuhiko Suzuki[1,2] ([1]Div. Bioresources, International Inst. for Zoonosis Control, Hokkaido Univ., [2]Inst. Vaccine Research and Development, Hokkaido Univ.)

P2-162/DP1-06-10
Development and Evaluation of Antibacterial Capsids Against Drug-Resistant *Pseudomonas aeruginosa*
◯Tomofumi Kawaguchi[1], Shinya Watanabe[1], Yi Liu[1], Kotaro Kiga[1,2], XinEe Tan[1], Longzhu Cui[1] ([1]Div. Bacteriol, Sch. Med., Jichi Med. Univ., [2]Drug and Vaccine Development, NIID)

P2-163/DP1-06-11

Quorum-sensing inhibitor furanone C-30 increases nitrosative stress susceptibility of *P. aeruginosa*

◯Shin Suzuki[1,3], Yuji Morita[2], Shota Ishige[1], Kiyohiro Kai[1], Kenji Kawasaki[3], Kazuyuki Matsushita[3], Kohei Ogura[4], Tohru Miyoshi-Akiyama[5], Takeshi Shimizu[1] ([1]Dept. Molecular Infectiology, Grad. Sch. Medicine, Chiba Univ., [2]Dept. Infection Control Science, Meiji Pharmaceutical Univ., [3]Dept. Laboratory Medicine, Chiba Univ. Hospital, [4]Div. Food Science and Biotechnology, Grad. Sch. Agriculture, Kyoto Univ., [5]Dept. Infect. Dis, Nat. Center. Global Health Med.)

P2-164/DP1-06-12

Distribution and antibacterial activity of bacteriocin genes in clinical isolates of Enterococci

◯Ayumi Fujii[1,2], Miki Matsuo[1,3], Nguyen Tra Mi Le[1,3], Chika Arai[3,4], Junzo Hisatsune[3,4], Yo Sugawara[4], Tomonao Aikawa[2], Motoyuki Sugai[3,4], Hitoshi Komatsuzawa[1,3] ([1]Dept. Bacteriol., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., [2]Dept. Oral and Maxillofacial Surgery., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., [3]Project Research Center for Nosocomial Infectious Diseases, Hiroshima Univ., [4]Antimicrobial Resistance Research Ctr., National Inst. Infectious Diseases)

P2-165/DP1-06-13

Optimizing Cas13 variants in engineered bacteriophages for potent bactericidal activity against MRSA

◯Adeline Yeo Syin Lian, Shinya Watanabe, Kazuhiko Miyanaga, Yoshifumi Aiba, XinEe Tan, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

7. Antimicrobial agents and resistance -b. Antimicrobial resistance

P2-166/DP1-12-10

Mobile linezolid resistance genes in enterococci derived from livestock compost at Japanese farms

◯Akira Fukuda[1], Chie Nakajima[2], Yasuhiko Suzuki[2], Masaru Usui[1,2] ([1]Dept. Food Microbiol. and Food Safe., Sch. Vet. Med., Rakuno Gakuen Univ., [2]Div. Bioresources, Inter. Inst. Zoonosis Contr., Hokkaido Univ.)

P2-167/W10-3

Bioinformatic analysis of morphologies of antibiotic-resistant Escherichia coli cells

◯Miki Ikebe[1,2], Kota Aoki[1], Mitsuko Hayashi-Nishino[1,2,3], Kunihiko Nishino[1,2,4] ([1]SANKEN, Osaka Univ., [2]Grad. Sch. Pharm. Sci., Osaka Univ., [3]AIRC-ISIR, Osaka Univ., [4]CiDER, Osaka Univ.)

P2-168/DP1-12-11

Genetic and phenotypic analyses of *mcr*-harboring ESBL-producing *E. coli* from dogs and cats in Japan

◯Mayo Yasugi[1], Shingo Hatoya[1], Daisuke Motooka[2], Daisuke Kondo[1], Hideo Akiyoshi[1], Masayuki Horie[1], Shota Nakamura[2], Terumasa Shimada[1] ([1]Grad. Sch. Vet. Sci., Osaka Metro. Univ., [2]RIMD, Osaka Univ.)

P2-169/DP1-12-12

Resistance to Sulfamethoxazole-Trimethoprim and Its Horizontal Transfer in *Haemophilus influenzae*

◯Tomokazu Ando, Takeaki Wajima, Emi Tanaka, Kei-ichi Uchiya (Dept. Microbiol., Fac. Pharm., Meijo Univ.)

P2-170/DP1-12-13

Mechanism of high-level quinolone resistance in *H. haemolyticus* revealed by gene transfer assay

◯Takeaki Wajima, Emi Tanaka, Kei-ichi Uchiya (Dept. Microbiol., Fac. Pharm., Meijo Univ.)

P2-171/W2-8

National genomic surveillance of antimicrobial resistance in Japan: 1st phase of JARBS-GNR project

Shizuo Kayama, ◯Koji Yahara, Yo Sugawara, Sayoko Kawakami, Kohei Kondo, Hui Zuo, Shoko Kutsuno, Norikazu Kitamura, Aki Hirabayashi, Motoyuki Sugai (AMR Research Center, NIID)

P2-172/DP1-12-14

Long-term cultivation triggers non-canonical susceptibilization of biofilm cells to antibiotics

◯Keiichiro Hara[1,2], Shinya Sugimoto[1,2,3], Yuki Kinjo[1,2] ([1]Dept. Bacteriol., Jikei Univ. Sch. Med., [2]Jikei Center for Biofilm Sci. Technol., Jikei Univ. Sch. Med., [3]Lab. Amyloid Reg., Jikei Univ. Sch. Med.)

P2-173/DP1-12-15

Alanine-transporter CycA supports cationic antimicrobial resistance in Staphylococcus aureus

◯Yujin Suzuki[1], Miki Matsuo[1,2], Nguyen Tra Mi Le[1,2], That Thuan Vy Ton[1], Hitoshi Komatsuzawa[1,2] ([1]Dept. Bacteriol., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., [2]Proj. Res. Ctr. for Nosocominal Infectious Diseases, Hiroshima Univ.)

P2-174/DP1-12-16

Increased prevalence of Kanamycin-resistant Salmonella Schwarzengrund from broilers in Kagoshima

◯George Sanga, Rika Miyajima, Vu Minh Duc, Takehisa Chuma (Joint Fac. Vet. Med. Kagoshima Univ.)

P2-175/W10-4

Fosfomycin resistance in Escherichia coli caused by functional deletion of AckA and Pta, Fis

○Hidetada Hirakawa[1], Ayako Takita[1], Yumika Sato[1], Yusuke Hashimoto[1], Suguru Hiramoto[2], Noriyasu Ohshima[3], Yoji Minamishima[3], Masami Murakami[2], Haruyoshi Tomita[1] ([1]Dept. Bacteriol., Sch. Med., Gunma Univ., [2]Dept. Clin. Lab. Med., Sch. Med., Gunma Univ., [3]Dept. Biochem., Sch. Med., Gunma Univ.)

P2-176/W10-2

Glyceroglycolipid synthase overexpression leads to daptomycin resistance in Gram-positive bacteria

○Ryogo Yamamoto[1], Kazuya Ishikawa[2], Kazuyuki Furuta[2], Shin-ichi Miyoshi[3,4], Chikara Kaito[2] ([1]Lab. Mol. Biol., Fac. Pharm., Okayama Univ., [2]Lab. Mol. Biol., Grad. Sch. Med. Dent. Pharm., Okayama Univ., [3]Grad. Sch. Med. Dent. Pharm., Okayama Univ., [4]Collab. Res. Cent. Okayama Univ. Infect. Diseases. India)

P2-177/W10-5

Phage Engineering for Overcoming Tmn Defense System

○Wakana Yamashita[1,2], Kotaro Chihara[1], Aa Haeruman Azam[1], Shinjiro Ojima[1], Azumi Tamura[1], Satoshi Tsuneda[2], Kotaro Kiga[1] ([1]Res. Ctr. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [2]Dept. Life Sci. Med. Biosci., Grad. Sch. Adv. Sci. Eng., Waseda Univ.)

P2-178/DP1-12-17

Metabolic Remodeling by *rpoBC* Mutations is Associated with β-Lactam Resistance in OS-MRSA

○Shinya Watanabe, Chijioke A Nsofor, Kanate Thitiananpakorn, XinEe Tan, Yoshifumi Aiba, Kazuhiko Miyanaga, Srivani Veeranarayanan, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

P2-179/DP2-15-01

Analysis of antimicrobial-resistant bacteria and drug-resistance genes from domestic chicken meat

○Runa Nakashima[1], Reina Kuwano[1], Tomoka Matsuo[1], Momoka Kondo[1], Rei Wakimoto[2], Mitsuoki Kawano[1] ([1]Dept. Nutritional Sciences., Nakamura Gakuen Univ., [2]Div. Food and Nutrition., Nakamura Gakuen Univ. JC.)

P2-180/DP2-15-02

Identification of ESBL genes using intestinal mucus samples from intestinal disease patients

○Rei Wakimoto[1], Riho Kashige[2], Momoko Shimai[2], Kakeru Teshima[2], Akiko Shiotani[3], Tingting Gu[3], Runa Nakashima[2], Mitsuoki Kawano[2] ([1]Div. Food and Nutrition., Nakamura Gakuen Univ. Junior College, [2]Dept. Nutritional Sciences, Nakamura Gakuen Univ., [3]Dept. Gastroenterology and Hepatology, Sch. Med., Kawasaki Univ.)

P2-181/DP2-15-03

Analysis of the amikacin resistance factor of carbapenem-resistant Escherichia coli AUH-256

○Hinako Yokoyama[1], Azuki Morishita[1], Shoichi Sakaguchi[2], Takashi Nakano[2], Yuji Nakada[1] ([1]Fac. Healthcare Sci., Aino. Univ., [2]Dept. Microbiol. & Infect. Cont., Fac. Med., Osaka Med. & Pharm. Univ.)

P2-182/DP2-15-04

Antimicrobial resistance of *emm*89 *Streptococcus pyogenes* isolates from patients throughout Japan

○Weichen Gong[1], Masayuki Ono[1,2], Masaya Yamaguchi[1,2], Daisuke Motooka[3], Yujiro Hirose[1], Rumi Okuno[4], Tadayoshi Ikebe[5], Shigetada Kawabata[1] ([1]Dept. Microbiol. Sch. Dent., Osaka Univ., [2]Dept. Info., Sch. Dent., Osaka Univ., [3]NGS Core Facility, RIMD., Osaka Univ., [4]Dept. Microbiol., Tokyo Metropolitan Inst. of Public Health, [5]Dept. Bacteriol. I., NIID)

P2-183/DP2-15-05

Mg^{2+} requirement in VmeJK, an RND multidrug efflux pump, in *Vibrio parahaemolyticus*

○Rino Murakami[1], Ayami Kunimitsu[1], Daichi Morita[2], Takanori Kumagai[2], Teruo Kuroda[2] ([1]Sch. Pharm., Hiroshima Univ., [2]Dept. Microbiol. Med., Sch. Med. Sci., Hiroshima Univ.)

P2-184/DP2-15-06

Isolation and Characterization of Bacteriophages Infecting Drug-Resistant *Acinetobacter* Species

○Azumi Tamura[1,2,3], Tomohiro Nakamura[1], Aa Haeruman Azam[1], Kotaro Chihara[1], Shinjiro Ojima[1], Longzhu Cui[4], Koichi Watashi[1], Yoshimasa Takahashi[1], Hiroshi Yotsuyanagi[2,3], Kotaro Kiga[1,4] ([1]Res. Cent. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [2]Dept. Comp. Biol. Med. Sci., Grad. Sch. Front. Sci., Univ. of Tokyo, [3]Div. Infect. Dis., Inst. Med. Sci., Univ. of Tokyo, [4]Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P2-185/W10-1

Detection and genetic analysis of ESBL-producing Escherichia coli in retail chicken meat in Japan

○Shiori Yamamoto[1,2], Tatsuya Nakayama[3], Yoshikazu Ishii[4], Shizunobu Igimi[5], Yumiko Okada[2] ([1]Dept. Nutr. Diet., Kamakura Women's Univ., [2]Div. Biomedical Food Res., Nat. Inst. Health Sci., [3]Grad. Sch. Int. Sci. for Life, Hiroshima Univ., [4]IDEC Inst., Hiroshima Univ., [5]Res. Inst., Tokyo Univ. Agr.)

P2-186/DP2-15-07

Evaluation of the bactericidal effect of bacteriophages on food products

○Mitsuoki Kawano[1], Akiho Ichino[1], Eri Kawaji[1], Nanoha Yoshida[1], Runa Nakashima[1], Rei Wakimoto[2] ([1]Dept. Nutritional Sci., Nakamura Gakuen Univ., [2]Div. Food and Nutrition, Junior College, Nakamura Gakuen Univ.)

P2-187/DP2-15-08

Isolation and application of *Klebsiella pneumoniae* prophage with a broad host range

Junjie Li, ○Kazuhiko Miyanaga, Kanate Thitiananpakorn, Minh Huong Nguyen, XinEe Tan, Srivani Veeranarayanan, Yoshifumi Aiba, Teppei Sasahara, Shinya Watanabe, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

P2-188/DP2-15-09

Tailoring induce conditions for CRISPR-Cas13a loaded AB-Capsid and targeted killing of *S. aureus*

○Anujin Batbold, XinEe Tan, Tergel Nayanjin, Shinya Watanabe, Yoshifumi Aiba, Kazuhiko Miyanaga, Teppei Sasahara, Srivani Veeranarayanan, Kanate Thitiananpakorn, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

7. Antimicrobial agents and resistance -c. Others

P2-189/DP2-21-06

Identification of Receptors for Multiple Phylogenetically Novel Escherichia coli Phages

○Tomoyoshi Kaneko[1,2], Satoshi Tsuneda[1,2] ([1]Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., [2]Phage Therapy Inst., Waseda Univ.)

P2-190/DP2-21-07

Exploring the Arsenal: A Comprehensive Study of Staphylococcus aureus Phages for Phage Therapy

○Hiromasa Mizutani[1], Tomoyoshi Kaneko[1,2], Aa Haeruman Azam[3], Kazuki Kitaoka[2,5], Kotaro Kiga[2,3,4], Satoshi Tsuneda[1,2] ([1]Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., [2]Phage Therapy Inst., Waseda Univ., [3]Res. Ctr. Drug Vaccine Dev., Natl. Inst. Infect. Dis., [4]Div. Bacteriol, Sch. Med., Jichi Med. Univ., [5]Shinjuku Satellite Clinic)

P2-191/W10-6

Proposal of Phage Therapy Based on Amino Acid Sequences of Escherichia coli Outer Membrane Protein C

○Kanata Nakatsuka[1], Riho Morikawa[1], Tomoyoshi Kaneko[1,2], Yoshifumi Aiba[3], Kazuhiko Miyanaga[2,3], Longzhu Cui[3], Yasunori Tanji[2], Satoshi Tsuneda[1,2] ([1]Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., [2]Phage Therapy Inst., Waseda Univ., [3]Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P2-193/DP2-21-09

Reactive oxygen species generated by 222 nm Far UV-C impair photorepair in Escherichia coli

○Kouji Narita[1,2], Krisana Asano[1,3], Risako Fukushi[1,4], Kyosuke Yamane[5], Yoshihiko Okumura[5], Akio Nakane[1,3,4] ([1]Dept. Microbiol. Immunol., Hirosaki Univ. Grad. Sch. Med., [2]Inst. Animal Exp., Hirosaki Univ. Grad. Sch. Med., [3]Dept. Biopolym. Health Sci., Hirosaki Univ. Grad. Sch. Med., [4]Dept. Nursing, Sch. Health Sci., Hirosaki Univ. Health Welfare, [5]Ushio Inc.)

P2-194/DP2-21-10

Biochemical and structural analysis of the endolysin Ecd09610 catalytic domain from *C. difficile*

○Eiji Tamai[1], Hiroshi Sekiya[1], Yasuhiro Nonaka[2], Shigehiro Kamitori[3], Tomomi Miyaji[1] ([1]Dept. Infec. Dis., Col. Pharm. Sci., Matsuyama Univ., [2]Dept. Endocrinol., Fac. Med., Kagawa Univ., [3]Res. Faci. Cent. Sci. & Tec. Facul. Med., Kagawa Univ.)

P2-195/DP2-21-11

The effects of *Monascus* Fermented Rice Extract on the pathogenicity of toxigenic *Vibrio cholerae*

○Tetsu Yamashiro[1], Jun Xu[1], Rena Kinjo[2], Keiichiro Ishihara[3], Aino Kinjo[2], Shinjiro Tachibana[3] ([1]Dept. Bacteriol. Grad. Sch. Med., Univ. Ryukyus, [2]Grad. Sch. Agri., Univ. Ryukyus, [3]Fac. Agri., Univ. Ryukyus)

8. Others

P2-196/W6-3

Novel Bacterial Production System: Achieving Endotoxin-Free Recombinant Bioactive Proteins

○Go Kamoshida[1,2], Daiki Yamaguchi[2], Noriteru Yamada[2], Norihiko Takemoto[3], Kinnosuke Yahiro[2], Yuji Morita[1] ([1]Dept. Infect. Cont. Sci. Meiji Pharm. Univ., [2]Lab. Microbiol. and Infect. Cont. Kyoto Pharm. Univ., [3]Pathogenic Microbe Lab., Dept. Infect. Dis., NCGM)

P2-197/DP2-21-12

Development of periodontal disease prevention using ultraviolet light-emitting diodes

○Tae Matsumura[1], Misato Suzuki[1], Hiromichi Yumoto[2], Tamotsu Tanaka[1], Mutsumi Aihara[1] ([1]Grad. Sch. Tech. Indust. & Social Sci., Tokushima Univ., [2]Grad. Sch. Inst. of Biomed Sci., Tokushima Univ.)

P2-198/DP2-21-13

Development of a water disinfection system by a combination of UV and chitosan

○Misato Suzuki, Tae Matsumura, Ryushi Kawakami, Tamotsu Tanaka, Mutsumi Aihara (Grad. Sch. Tech. Indust. & Social Sci., Tokushima Univ.)

5. Pathogenicity

P2-199

The effect of exosome pathway on Cholix-induced hepatocytes death

Kazuya Ozaki[1], Asaka Kawamura[1], ○Hiyo Nagahara[1], Atsushi Yokotani[2], Kinnosuke Yahiro[1] ([1]Dept. Microbiol. Infect. Cont., Sch. Pharm., Kyoto Pharm. Univ., [2]Kyoto Biken Lab.)